

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199042

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7060-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SL4-7060-600-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3247 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

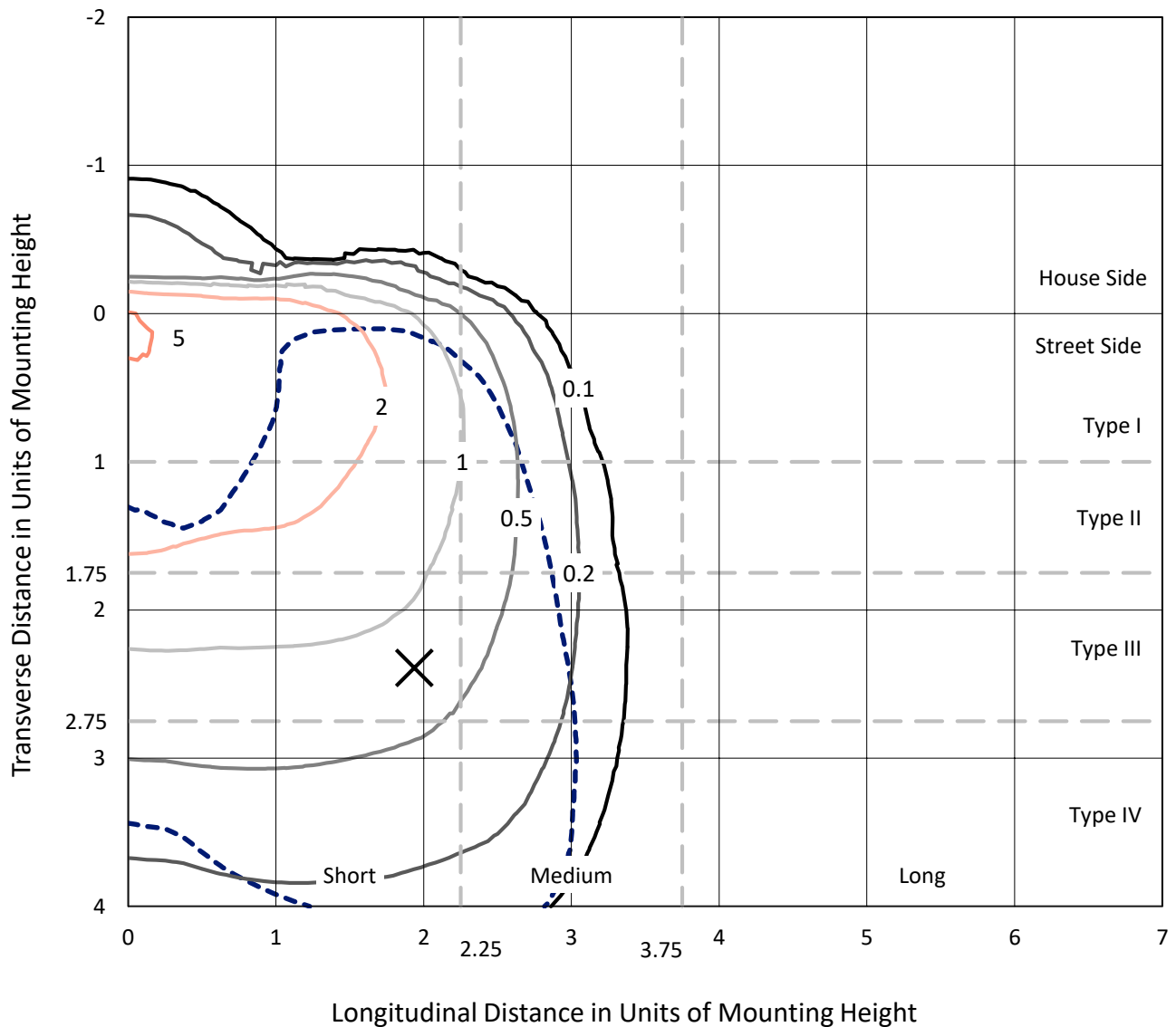


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

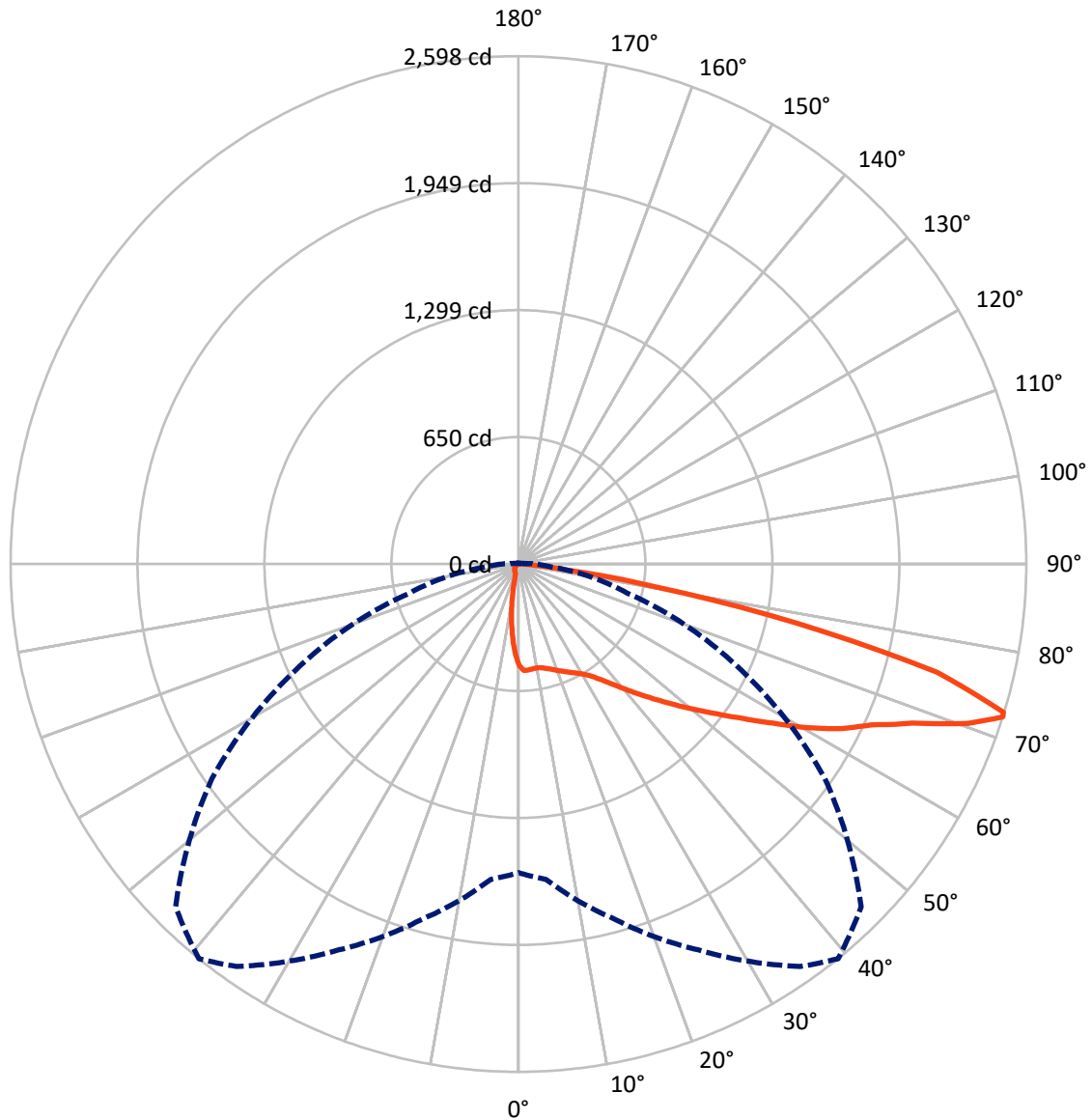


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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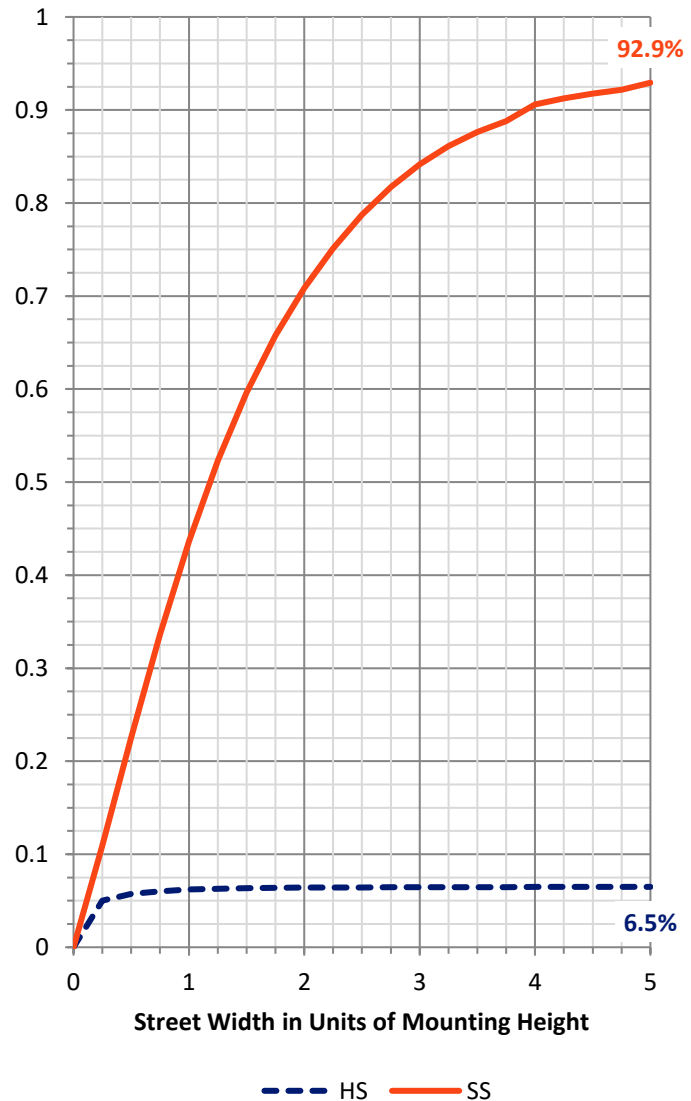
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	212.8	0.0	212.8
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	3034.2	0.0	3034.2
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	3247.0	0.0	3247.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.3	1.3
10°-20°	102.3	3.2
20°-30°	170.0	5.2
30°-40°	270.9	8.3
40°-50°	447.1	13.8
50°-60°	675.3	20.8
60°-70°	879.6	27.1
70°-80°	594.4	18.3
80°-90°	65.1	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3247.0	100.0
0°-180°	3247.0	100.0

**Coefficient of Utilization**



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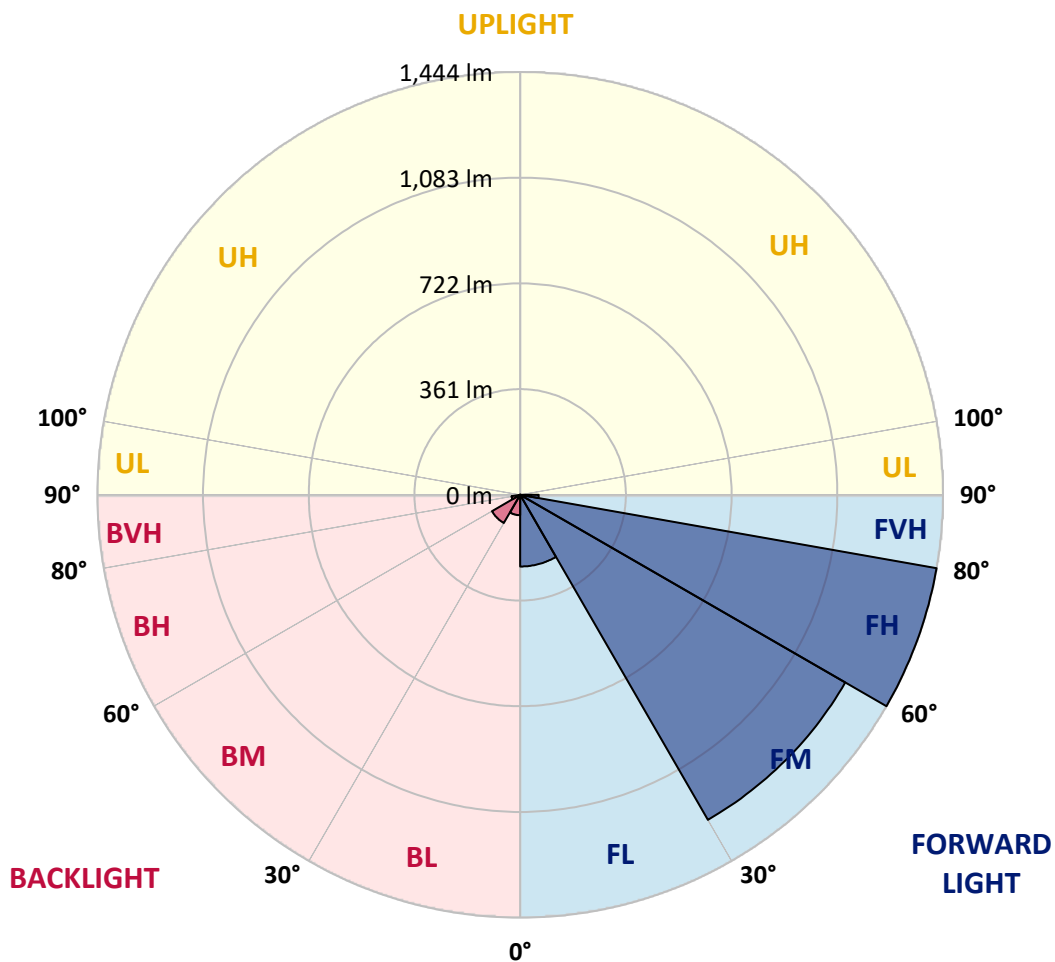
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.9	7.5			
FM (30°-60°)	1282.0	39.5			
FH (60°-80°)	1444.1	44.5			G1/1800
FVH (80°-90°)	63.2	1.9			G1/100
BL (0°-30°)	69.7	2.1	B0/110		
BM (30°-60°)	111.3	3.4	B0/220		
BH (60°-80°)	29.9	0.9	B0/110		G0/110
BVH (80°-90°)	1.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7
2.5°	553.4	554.4	553.1	550.8	547.5	545.5	542.7	536.6	528.9	522.3	514.6
5°	557.7	558.2	556.7	552.4	547.3	544.5	540.9	534.3	526.3	517.2	503.4
7.5°	559.0	558.8	557.0	551.6	543.7	540.1	534.0	525.8	517.7	509.2	493.7
10°	558.5	558.5	557.2	552.1	543.2	539.9	533.0	524.3	514.1	505.7	489.1
12.5°	556.7	557.7	557.0	554.2	547.5	545.0	538.8	530.2	520.5	511.8	494.2
15°	559.0	560.5	562.1	561.1	557.2	554.9	549.3	540.4	532.5	523.3	504.4
17.5°	568.2	571.5	575.1	575.3	571.3	567.2	560.8	551.6	544.0	535.5	515.1
20°	585.6	588.1	594.7	596.0	587.9	582.0	573.1	562.3	554.7	547.5	525.1
22.5°	611.3	614.1	619.5	617.7	603.9	597.0	585.8	573.6	565.6	561.6	536.6
25°	650.4	651.2	652.4	644.5	621.8	614.1	600.4	586.6	580.2	579.7	552.9
27.5°	696.3	697.4	691.7	674.1	641.7	631.8	616.2	603.7	600.6	604.4	573.6
30°	748.9	749.2	733.6	705.0	664.7	653.7	637.6	623.8	626.7	636.1	600.1
32.5°	802.8	800.2	778.8	741.5	696.1	682.8	669.0	655.2	663.4	682.6	638.9
35°	852.0	851.0	825.8	782.4	736.9	725.2	715.2	700.7	714.0	745.1	691.7
37.5°	901.3	900.5	871.7	826.5	787.2	778.8	771.4	760.2	781.9	827.5	762.5
40°	955.7	954.4	918.9	875.5	845.7	841.1	836.7	831.9	868.9	932.5	850.5
42.5°	1022.8	1017.2	969.0	928.9	910.0	911.3	911.5	916.4	974.3	1057.3	954.4
45°	1099.9	1087.4	1019.2	986.1	980.7	988.4	996.0	1016.2	1097.1	1201.0	1069.3
47.5°	1174.7	1154.5	1077.2	1047.6	1058.6	1074.4	1092.8	1132.1	1234.9	1351.3	1173.4
50°	1239.0	1218.3	1134.6	1110.1	1145.1	1168.6	1201.2	1260.7	1380.4	1478.4	1239.0
52.5°	1289.6	1273.2	1195.4	1179.0	1241.1	1273.2	1324.5	1402.6	1517.8	1562.2	1285.0
55°	1326.8	1318.7	1253.6	1255.9	1347.8	1394.2	1458.0	1546.3	1633.6	1627.3	1319.4
57.5°	1368.9	1362.6	1314.6	1346.5	1476.2	1536.1	1609.9	1680.9	1717.9	1679.6	1353.1
60°	1412.1	1414.1	1388.6	1456.2	1634.9	1701.3	1765.6	1783.2	1790.1	1732.7	1388.6
62.5°	1444.8	1453.4	1455.7	1574.7	1797.8	1854.4	1882.3	1869.8	1868.2	1803.9	1385.8
65°	1482.3	1505.0	1542.8	1704.6	1945.8	1983.1	2003.0	2021.1	1982.8	1825.1	1249.5
67.5°	1547.1	1582.8	1667.8	1863.9	2116.8	2172.0	2228.4	2209.2	1999.9	1609.9	951.9
70°	1634.4	1678.1	1828.2	2071.9	2348.9	2441.3	2488.5	2194.2	1698.0	1112.4	502.1
72°	1579.3	1618.8	1877.7	2178.1	2513.3	2598.0	2479.8	1913.9	1230.8	576.6	168.2
72.5°	1525.7	1566.5	1861.8	2176.8	2529.6	2594.4	2423.4	1803.4	1089.2	448.7	115.9
75°	1058.6	1110.1	1596.1	1956.8	2284.3	2213.1	1854.2	1092.0	394.6	77.1	38.3
77.5°	547.3	587.1	968.2	1382.7	1592.0	1458.0	1095.8	473.8	109.3	40.8	25.3
80°	339.2	358.9	452.8	681.3	827.0	723.4	483.5	191.4	69.9	24.2	20.2
82.5°	175.6	190.7	285.1	274.9	305.5	254.0	178.4	160.3	43.1	15.1	20.7
85°	57.7	61.3	175.1	182.8	130.7	87.8	79.1	152.9	12.5	9.7	17.6
87.5°	7.7	8.9	61.5	104.7	64.3	39.8	47.5	53.9	4.3	5.4	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7
2.5°	509.5	506.2	495.7	485.2	473.2	462.3	453.6	448.0	450.5	442.1	443.4
5°	494.9	486.5	463.5	438.8	412.0	387.0	367.1	352.3	349.4	336.7	337.2
7.5°	480.9	467.1	429.9	389.0	344.6	308.6	275.9	247.3	237.1	226.7	220.5
10°	473.2	454.4	401.5	342.0	279.5	226.7	180.7	144.7	129.7	118.7	113.3
12.5°	475.5	450.5	380.3	299.4	217.2	150.1	102.1	75.8	66.6	61.5	59.7
15°	483.2	451.3	361.2	257.8	158.0	90.9	60.0	51.3	50.5	50.3	50.0
17.5°	490.3	452.1	341.0	214.4	105.7	57.9	48.2	47.5	47.5	47.5	47.5
20°	497.8	452.3	318.8	169.0	69.4	47.5	45.4	44.9	45.4	45.4	45.4
22.5°	506.4	454.1	297.4	124.8	51.3	44.7	43.4	43.1	43.4	43.4	43.1
25°	517.2	457.9	274.1	89.3	46.5	42.9	41.6	41.4	41.6	41.4	41.4
27.5°	531.4	463.0	247.1	64.1	44.4	41.1	39.8	39.8	39.8	39.6	39.6
30°	549.8	469.2	210.8	50.5	42.4	39.3	38.3	38.3	38.0	37.8	37.8
32.5°	576.1	479.1	171.3	45.7	40.1	37.0	36.0	36.2	36.0	35.7	35.5
35°	613.4	494.7	132.2	43.1	37.8	34.7	33.7	33.7	33.7	33.2	33.2
37.5°	666.2	518.4	99.0	40.6	35.5	32.4	31.1	31.1	30.9	30.4	30.6
40°	731.6	548.3	71.7	38.3	33.2	29.9	28.8	28.3	27.8	27.3	27.3
42.5°	810.2	577.4	53.9	36.0	30.9	27.8	26.5	26.0	25.0	24.5	24.2
45°	898.2	608.3	44.7	33.2	28.3	25.5	24.5	23.5	22.2	21.4	21.2
47.5°	972.5	627.2	39.8	30.4	25.8	23.2	22.2	20.7	19.1	18.6	18.6
50°	1017.2	619.3	35.7	27.6	23.2	20.9	19.7	17.6	16.6	16.1	15.8
52.5°	1042.2	595.8	32.4	25.3	20.9	18.4	16.6	14.8	14.3	13.8	13.8
55°	1059.3	561.8	28.8	23.0	18.9	16.1	14.0	12.8	12.3	12.0	11.7
57.5°	1075.7	520.5	25.5	20.9	16.8	14.3	12.0	11.5	10.5	10.2	10.2
60°	1080.5	463.5	22.5	18.6	15.1	12.5	10.5	9.7	8.7	8.4	8.4
62.5°	1018.7	368.8	19.9	15.8	13.3	10.7	9.2	8.2	7.1	7.1	7.1
65°	851.3	250.4	17.1	13.8	11.7	9.2	7.9	6.6	6.1	6.1	6.1
67.5°	593.0	139.6	14.5	11.7	10.0	7.7	6.6	5.6	5.4	5.6	5.6
70°	267.3	55.4	12.3	9.7	8.2	6.4	5.6	4.8	5.4	5.4	5.4
72°	80.2	29.6	10.2	7.9	6.6	5.6	4.8	4.6	5.1	5.4	5.4
72.5°	59.5	26.5	9.7	7.7	6.6	5.4	4.6	4.6	5.1	5.4	5.4
75°	30.6	18.1	7.4	5.6	4.8	4.3	3.8	4.3	5.1	5.1	5.1
77.5°	24.0	14.8	6.1	4.3	4.1	3.8	3.6	4.1	4.6	4.6	4.6
80°	22.5	9.7	4.8	4.1	3.6	3.3	3.3	3.6	4.1	4.3	4.3
82.5°	22.7	7.9	4.3	3.8	3.3	3.1	3.1	3.3	3.8	4.1	4.1
85°	14.5	5.4	3.8	3.3	3.1	2.8	2.8	3.1	3.6	3.8	3.8
87.5°	4.8	4.1	3.3	3.1	2.6	2.6	2.6	2.6	3.1	3.3	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)