

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: P199204

Luminaire Tested: **XNV-AF-01-LED-U-SL4-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199204
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-SL4-8030-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 3249 lumens
Efficiency: N/A
Efficacy: 73.8 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): 44
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

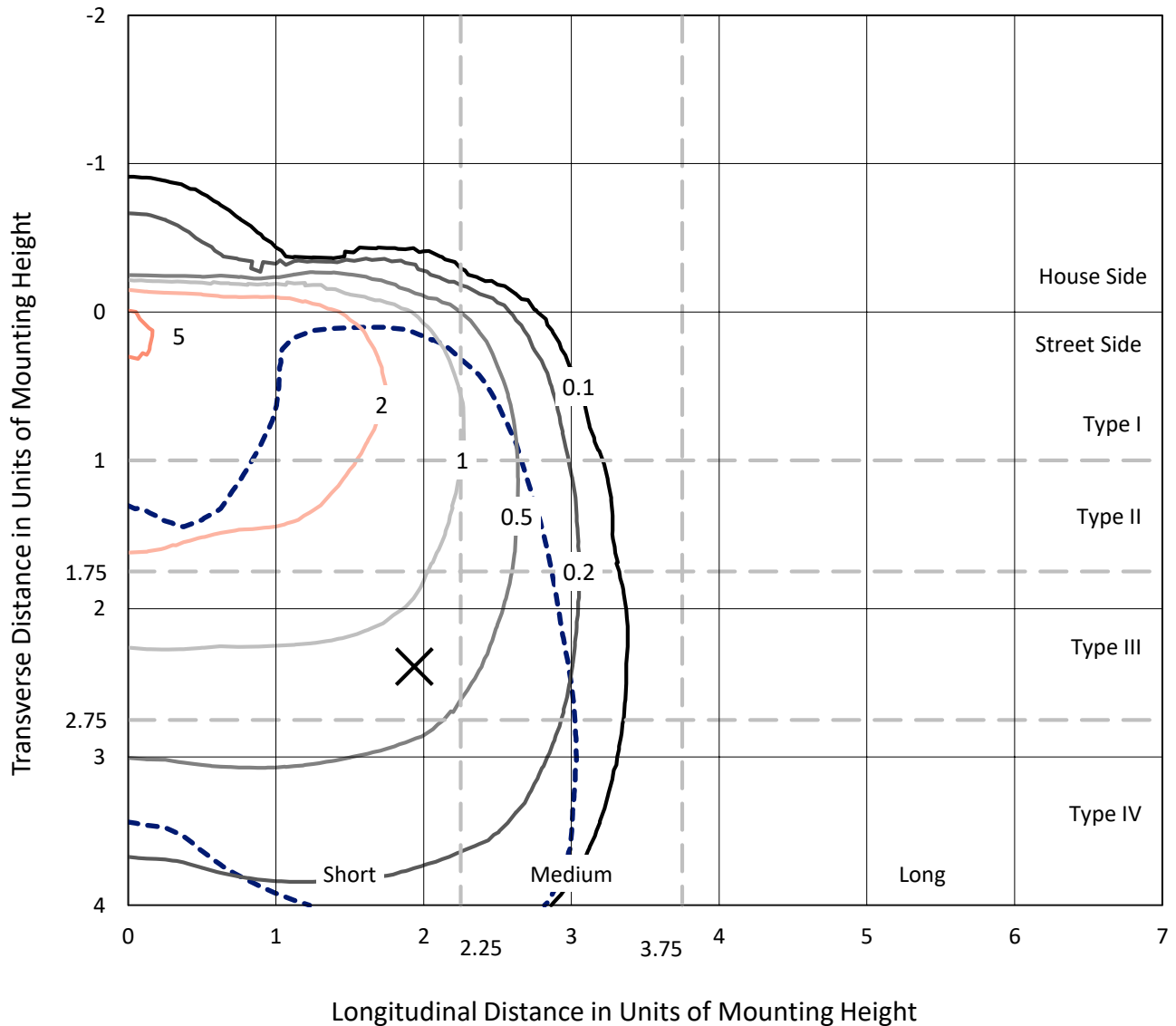


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

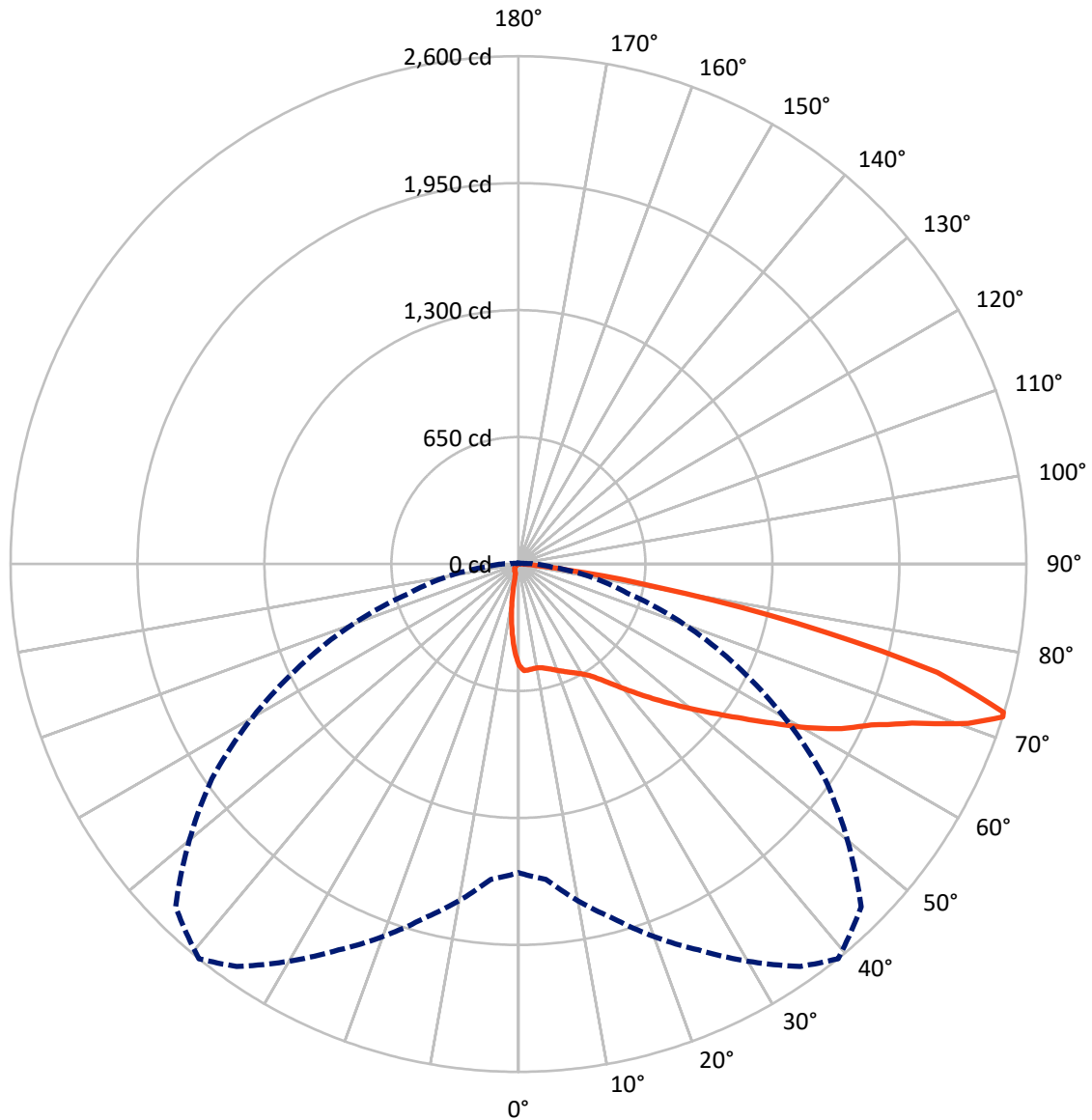


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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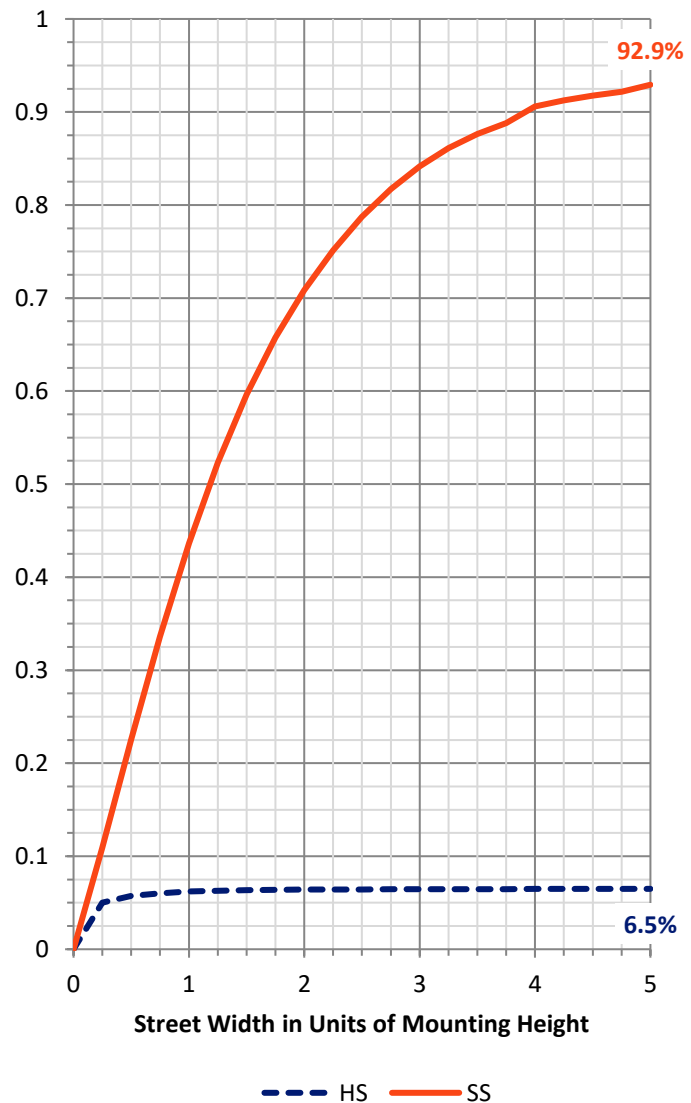
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	212.9	0.0	212.9
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	3036.1	0.0	3036.1
	% Fixture	93.4	0.0	93.4
Total	Lumens	3249.0	0.0	3249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.3
10°-20°	102.4	3.2
20°-30°	170.1	5.2
30°-40°	271.1	8.3
40°-50°	447.4	13.8
50°-60°	675.7	20.8
60°-70°	880.2	27.1
70°-80°	594.7	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°	3249.0	100.0
0°-180°	3249.0	100.0

Coefficient of Utilization



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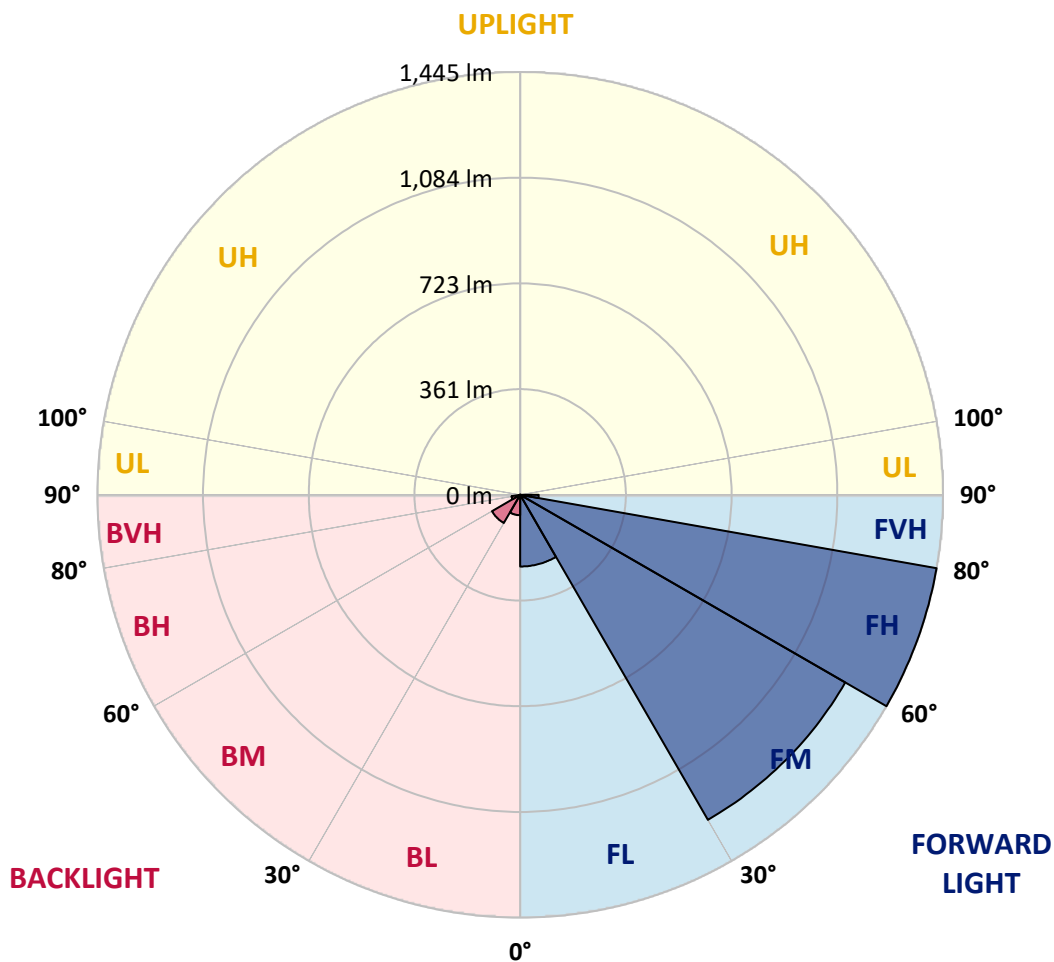
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.1	7.5			
FM	(30°-60°)	1282.7	39.5			
FH	(60°-80°)	1445.0	44.5			G1/1800
FVH	(80°-90°)	63.3	1.9			G1/100
BL	(0°-30°)	69.7	2.1	B0/110		
BM	(30°-60°)	111.4	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°	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
2.5°	553.7	554.8	553.5	551.2	547.9	545.8	543.0	536.9	529.2	522.6	514.9
5°	558.1	558.6	557.1	552.7	547.6	544.8	541.2	534.6	526.7	517.5	503.7
7.5°	559.4	559.1	557.3	552.0	544.0	540.5	534.3	526.2	518.0	509.6	494.0
10°	558.8	558.8	557.6	552.5	543.5	540.2	533.3	524.6	514.4	506.0	489.4
12.5°	557.1	558.1	557.3	554.5	547.9	545.3	539.2	530.5	520.8	512.1	494.5
15°	559.4	560.9	562.4	561.4	557.6	555.3	549.7	540.7	532.8	523.6	504.7
17.5°	568.6	571.9	575.4	575.7	571.6	567.5	561.1	552.0	544.3	535.9	515.4
20°	585.9	588.5	595.1	596.4	588.2	582.3	573.4	562.7	555.0	547.9	525.4
22.5°	611.7	614.5	619.9	618.1	604.3	597.4	586.2	573.9	566.0	561.9	536.9
25°	650.8	651.6	652.8	644.9	622.2	614.5	600.7	586.9	580.6	580.0	553.2
27.5°	696.8	697.8	692.2	674.5	642.1	632.2	616.6	604.1	601.0	604.8	573.9
30°	749.4	749.6	734.1	705.5	665.1	654.1	638.0	624.2	627.0	636.5	600.5
32.5°	803.3	800.7	779.3	742.0	696.5	683.2	669.4	655.6	663.8	683.0	639.3
35°	852.6	851.6	826.3	782.8	737.4	725.6	715.7	701.1	714.4	745.6	692.2
37.5°	901.9	901.1	872.2	827.0	787.7	779.3	771.9	760.6	782.3	828.1	762.9
40°	956.3	955.0	919.5	876.1	846.2	841.6	837.2	832.4	869.4	933.0	851.0
42.5°	1023.4	1017.8	969.6	929.5	910.6	911.8	912.1	916.9	974.9	1057.9	955.0
45°	1100.6	1088.1	1019.9	986.7	981.3	989.0	996.6	1016.8	1097.8	1201.7	1069.9
47.5°	1175.4	1155.2	1077.8	1048.2	1059.2	1075.0	1093.4	1132.8	1235.7	1352.2	1174.1
50°	1239.8	1219.1	1135.3	1110.8	1145.8	1169.3	1202.0	1261.5	1381.3	1479.4	1239.8
52.5°	1290.4	1274.0	1196.1	1179.8	1241.8	1274.0	1325.3	1403.5	1518.7	1563.1	1285.8
55°	1327.6	1319.5	1254.3	1256.6	1348.6	1395.1	1458.9	1547.3	1634.7	1628.3	1320.2
57.5°	1369.8	1363.4	1315.4	1347.3	1477.1	1537.1	1610.9	1681.9	1718.9	1680.6	1354.0
60°	1413.0	1415.0	1389.5	1457.1	1635.9	1702.3	1766.7	1784.3	1791.2	1733.8	1389.5
62.5°	1445.6	1454.3	1456.6	1575.7	1798.9	1855.6	1883.4	1870.9	1869.4	1805.0	1386.6
65°	1483.2	1505.9	1543.7	1705.7	1947.0	1984.3	2004.2	2022.4	1984.1	1826.2	1250.3
67.5°	1548.1	1583.8	1668.9	1865.0	2118.2	2173.3	2229.8	2210.6	2001.2	1610.9	952.4
70°	1635.4	1679.1	1829.3	2073.2	2350.3	2442.8	2490.0	2195.5	1699.0	1113.1	502.4
72°	1580.2	1619.8	1878.8	2179.5	2514.8	2599.6	2481.3	1915.1	1231.6	577.0	168.3
72.5°	1526.6	1567.5	1863.0	2178.2	2531.2	2596.0	2424.9	1804.5	1089.9	449.0	116.0
75°	1059.2	1110.8	1597.1	1958.0	2285.7	2214.4	1855.3	1092.7	394.9	77.1	38.3
77.5°	547.6	587.5	968.8	1383.6	1593.0	1458.9	1096.5	474.0	109.3	40.9	25.3
80°	339.4	359.1	453.1	681.7	827.5	723.8	483.8	191.6	70.0	24.3	20.2
82.5°	175.7	190.8	285.3	275.1	305.7	254.1	178.5	160.4	43.2	15.1	20.7
85°	57.7	61.3	175.2	182.9	130.8	87.9	79.2	153.0	12.5	9.7	17.6
87.5°	7.7	8.9	61.6	104.7	64.4	39.8	47.5	53.9	4.3	5.4	4.9
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°	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
2.5°	509.8	506.5	496.0	485.5	473.5	462.6	453.9	448.3	450.8	442.4	443.7
5°	495.2	486.8	463.8	439.1	412.2	387.2	367.3	352.5	349.7	336.9	337.4
7.5°	481.2	467.4	430.1	389.3	344.8	308.8	276.1	247.5	237.3	226.8	220.7
10°	473.5	454.6	401.8	342.3	279.7	226.8	180.8	144.8	129.8	118.8	113.4
12.5°	475.8	450.8	380.6	299.6	217.4	150.2	102.2	75.9	66.7	61.6	59.8
15°	483.5	451.6	361.4	258.0	158.1	90.9	60.0	51.3	50.6	50.3	50.1
17.5°	490.7	452.3	341.2	214.5	105.7	58.0	48.3	47.5	47.5	47.5	47.5
20°	498.1	452.6	319.0	169.1	69.5	47.5	45.5	45.0	45.5	45.5	45.5
22.5°	506.7	454.4	297.6	124.9	51.3	44.7	43.4	43.2	43.4	43.4	43.2
25°	517.5	458.2	274.3	89.4	46.5	42.9	41.6	41.4	41.6	41.4	41.4
27.5°	531.8	463.3	247.2	64.1	44.4	41.1	39.8	39.8	39.8	39.6	39.6
30°	550.2	469.5	211.0	50.6	42.4	39.3	38.3	38.3	38.1	37.8	37.8
32.5°	576.5	479.4	171.4	45.7	40.1	37.0	36.0	36.3	36.0	35.8	35.5
35°	613.8	495.0	132.3	43.2	37.8	34.7	33.7	33.7	33.7	33.2	33.2
37.5°	666.6	518.7	99.1	40.6	35.5	32.4	31.2	31.2	30.9	30.4	30.6
40°	732.0	548.6	71.8	38.3	33.2	29.9	28.9	28.4	27.8	27.3	27.3
42.5°	810.7	577.7	53.9	36.0	30.9	27.8	26.6	26.1	25.0	24.5	24.3
45°	898.8	608.7	44.7	33.2	28.4	25.5	24.5	23.5	22.2	21.5	21.2
47.5°	973.1	627.6	39.8	30.4	25.8	23.2	22.2	20.7	19.2	18.6	18.6
50°	1017.8	619.6	35.8	27.6	23.2	20.9	19.7	17.6	16.6	16.1	15.8
52.5°	1042.9	596.1	32.4	25.3	20.9	18.4	16.6	14.8	14.3	13.8	13.8
55°	1060.0	562.2	28.9	23.0	18.9	16.1	14.0	12.8	12.3	12.0	11.7
57.5°	1076.3	520.8	25.5	20.9	16.9	14.3	12.0	11.5	10.5	10.2	10.2
60°	1081.2	463.8	22.5	18.6	15.1	12.5	10.5	9.7	8.7	8.4	8.4
62.5°	1019.4	369.1	19.9	15.8	13.3	10.7	9.2	8.2	7.2	7.2	7.2
65°	851.8	250.6	17.1	13.8	11.7	9.2	7.9	6.6	6.1	6.1	6.1
67.5°	593.3	139.7	14.6	11.7	10.0	7.7	6.6	5.6	5.4	5.6	5.6
70°	267.4	55.4	12.3	9.7	8.2	6.4	5.6	4.9	5.4	5.4	5.4
72°	80.2	29.6	10.2	7.9	6.6	5.6	4.9	4.6	5.1	5.4	5.4
72.5°	59.5	26.6	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	4.9	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	4.9	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°	14.6	5.4	3.8	3.3	3.1	2.8	2.8	3.1	3.6	3.8	3.8
87.5°	4.9	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)