

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: P198722

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198722
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-SL4-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 3321.5 lumens
Efficiency: N/A
Efficacy: 97.7 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

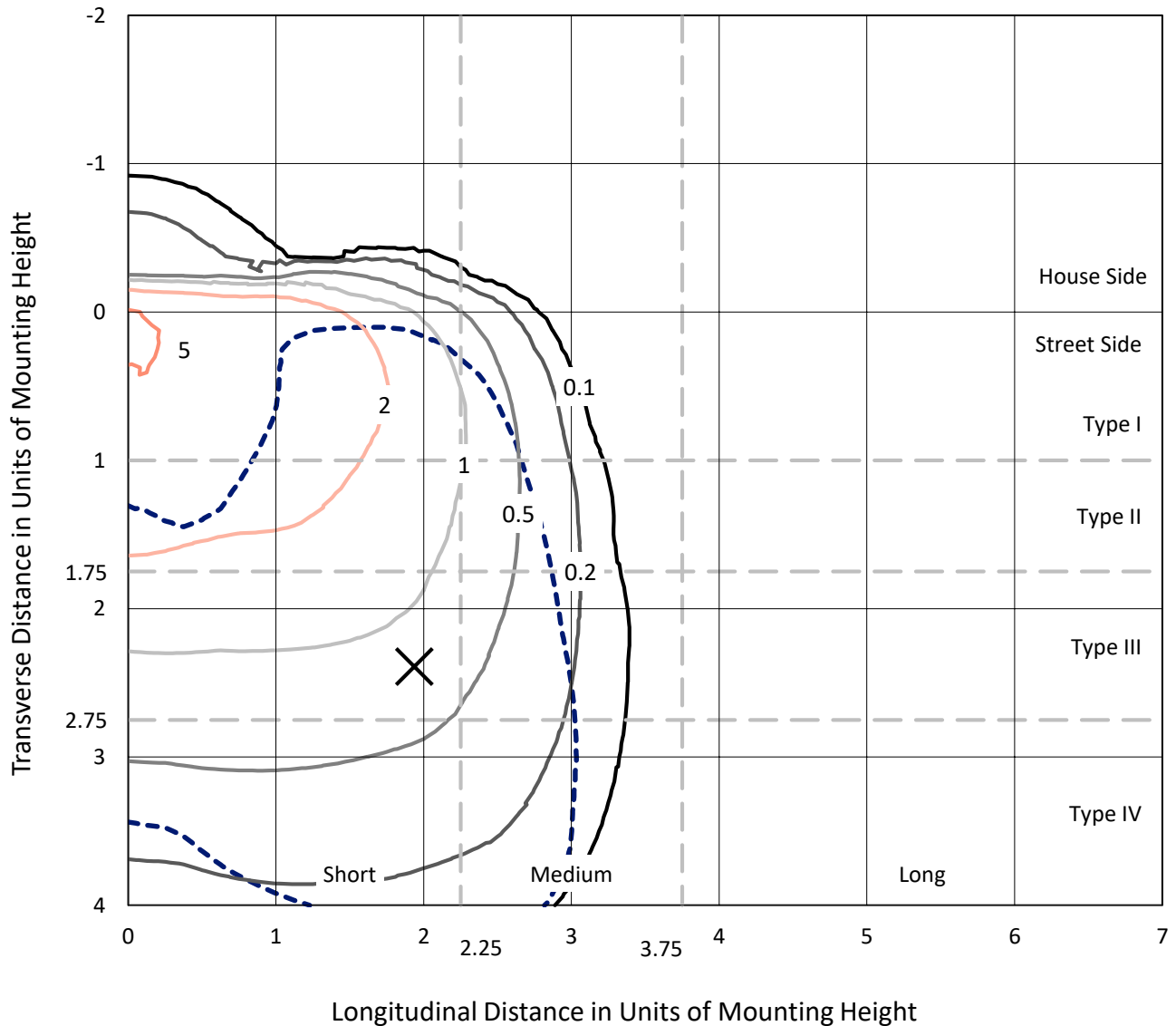


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

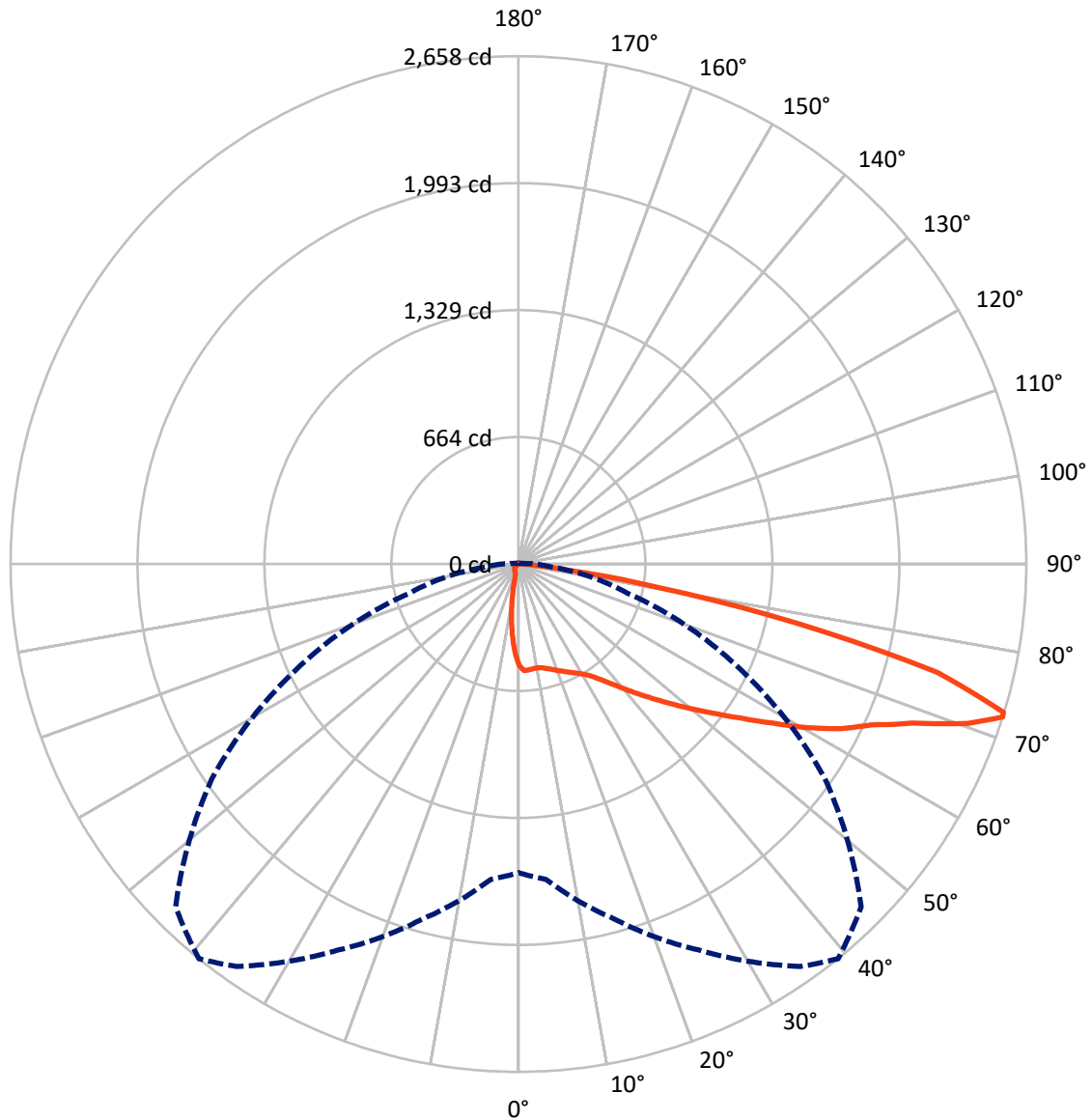


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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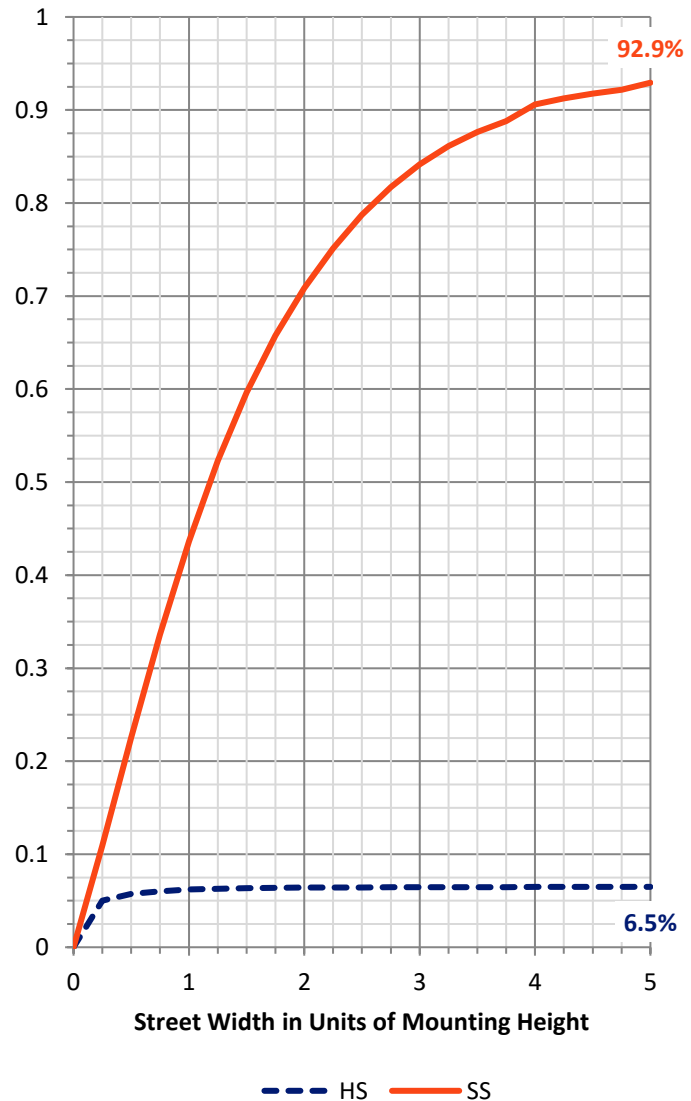
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	217.7	0.0	217.7
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	3103.8	0.0	3103.8
	% Fixture	93.4	0.0	93.4
Total	Lumens	3321.5	0.0	3321.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.3
10°-20°	104.7	3.2
20°-30°	173.9	5.2
30°-40°	277.1	8.3
40°-50°	457.4	13.8
50°-60°	690.8	20.8
60°-70°	899.8	27.1
70°-80°	608.0	18.3
80°-90°	66.6	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°	3321.5	100.0
0°-180°	3321.5	100.0

Coefficient of Utilization



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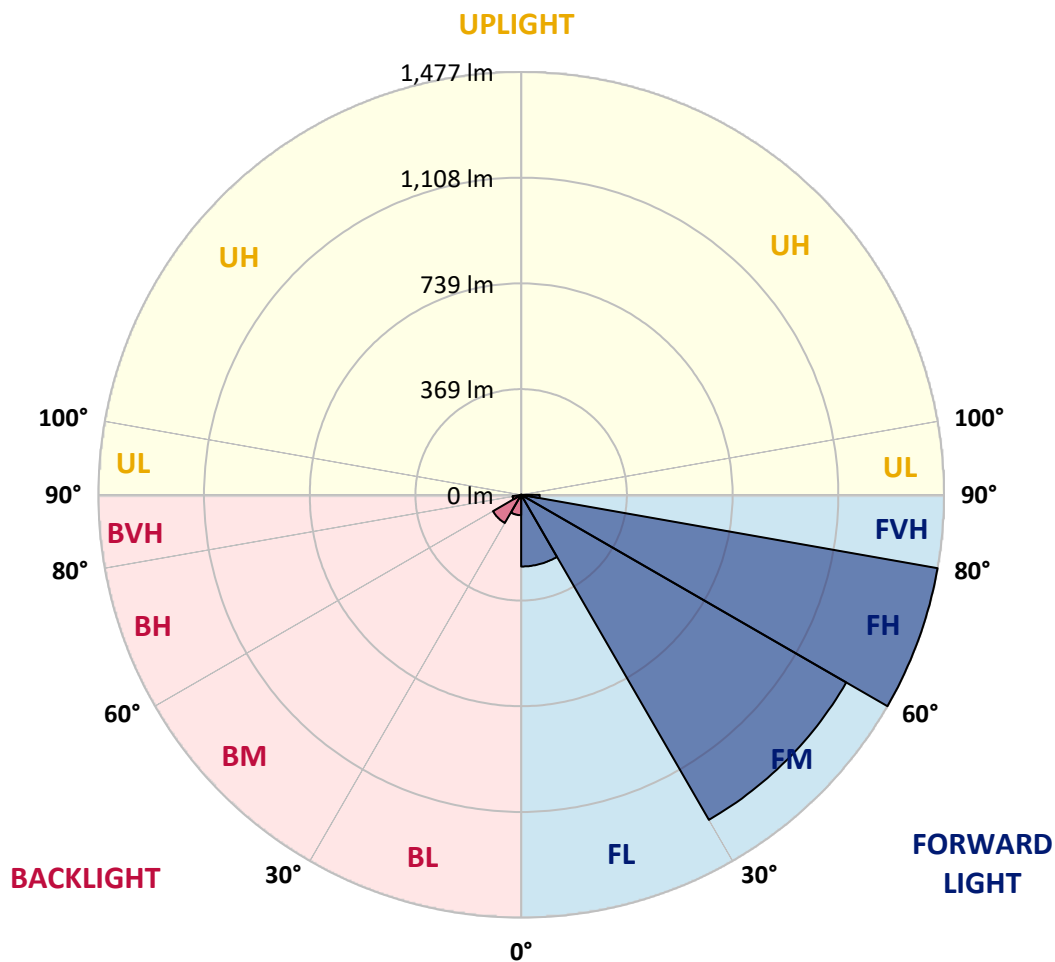
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.5	7.5			
FM	(30°-60°)	1311.4	39.5			
FH	(60°-80°)	1477.3	44.5			G1/1800
FVH	(80°-90°)	64.7	1.9			G1/100
BL	(0°-30°)	71.3	2.1	B0/110		
BM	(30°-60°)	113.9	3.4	B0/220		
BH	(60°-80°)	30.6	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°	531.6	531.6	531.6	531.6	531.6	531.6	531.6	531.6	531.6	531.6	531.6
2.5°	566.1	567.1	565.8	563.4	560.1	558.0	555.2	548.9	541.0	534.3	526.4
5°	570.5	571.0	569.5	565.1	559.9	557.0	553.3	546.6	538.4	529.1	515.0
7.5°	571.8	571.6	569.8	564.3	556.2	552.5	546.3	537.9	529.6	520.9	505.0
10°	571.3	571.3	570.0	564.8	555.7	552.3	545.2	536.3	525.9	517.3	500.3
12.5°	569.5	570.5	569.8	566.9	560.1	557.5	551.2	542.4	532.4	523.5	505.5
15°	571.8	573.4	575.0	574.0	570.0	567.6	561.9	552.8	544.7	535.3	516.0
17.5°	581.2	584.6	588.3	588.5	584.4	580.2	573.7	564.3	556.5	547.8	526.9
20°	599.0	601.6	608.3	609.7	601.4	595.4	586.3	575.2	567.4	560.1	537.2
22.5°	625.3	628.2	633.7	631.9	617.8	610.7	599.2	586.8	578.6	574.5	548.9
25°	665.3	666.1	667.4	659.3	636.1	628.2	614.2	600.1	593.5	593.0	565.6
27.5°	712.3	713.4	707.6	689.6	656.4	646.3	630.3	617.6	614.4	618.3	586.8
30°	766.1	766.4	750.4	721.2	680.0	668.7	652.2	638.1	641.1	650.7	613.9
32.5°	821.2	818.6	796.7	758.5	712.1	698.5	684.4	670.2	678.6	698.3	653.6
35°	871.6	870.5	844.8	800.4	753.8	741.8	731.6	716.8	730.4	762.2	707.6
37.5°	922.0	921.2	891.7	845.5	805.3	796.7	789.1	777.6	799.8	846.5	780.0
40°	977.6	976.3	940.0	895.6	865.1	860.4	855.9	851.0	888.8	953.9	870.0
42.5°	1046.3	1040.5	991.2	950.2	930.9	932.2	932.4	937.4	996.7	1081.6	976.3
45°	1125.1	1112.4	1042.6	1008.7	1003.2	1011.1	1018.9	1039.5	1122.3	1228.6	1093.8
47.5°	1201.7	1181.0	1101.9	1071.6	1082.9	1099.1	1117.9	1158.1	1263.2	1382.3	1200.3
50°	1267.4	1246.3	1160.6	1135.6	1171.4	1195.4	1228.8	1289.6	1412.1	1512.3	1267.4
52.5°	1319.2	1302.4	1222.8	1206.1	1269.6	1302.4	1354.9	1434.8	1552.6	1598.1	1314.5
55°	1357.3	1349.0	1282.4	1284.7	1378.7	1426.2	1491.5	1581.8	1671.1	1664.6	1349.7
57.5°	1400.3	1393.9	1344.8	1377.4	1510.1	1571.4	1646.8	1719.5	1757.3	1718.1	1384.2
60°	1444.5	1446.6	1420.5	1489.6	1672.4	1740.3	1806.1	1824.1	1831.2	1772.5	1420.5
62.5°	1478.0	1486.8	1489.1	1610.8	1839.1	1897.0	1925.5	1912.7	1911.1	1845.3	1417.6
65°	1516.3	1539.5	1578.2	1743.7	1990.5	2028.6	2049.0	2067.5	2028.3	1867.0	1278.2
67.5°	1582.6	1619.1	1706.1	1906.7	2165.4	2221.8	2279.5	2259.9	2045.8	1646.8	973.7
70°	1671.9	1716.6	1870.2	2119.5	2402.8	2497.3	2545.6	2244.6	1737.0	1137.9	513.6
72°	1615.5	1656.0	1920.8	2228.1	2571.0	2657.6	2536.7	1957.8	1259.0	589.8	172.1
72.5°	1560.7	1602.5	1904.5	2226.8	2587.7	2653.9	2479.0	1844.8	1114.2	459.0	118.6
75°	1082.9	1135.6	1632.7	2001.7	2336.7	2263.9	1896.8	1117.1	403.7	78.9	39.2
77.5°	559.9	600.6	990.4	1414.4	1628.5	1491.5	1120.9	484.7	111.8	41.7	25.9
80°	347.0	367.1	463.2	696.9	846.0	740.0	494.6	195.8	71.5	24.8	20.7
82.5°	179.6	195.1	291.6	281.2	312.5	259.8	182.5	164.0	44.1	15.4	21.2
85°	59.0	62.7	179.1	187.0	133.7	89.8	80.9	156.4	12.8	9.9	18.0
87.5°	7.9	9.1	62.9	107.1	65.8	40.7	48.6	55.1	4.4	5.5	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°	531.6	531.6	531.6	531.6	531.6	531.6	531.6	531.6	531.6	531.6	531.6
2.5°	521.2	517.8	507.1	496.3	484.1	472.9	464.0	458.3	460.8	452.2	453.6
5°	506.3	497.7	474.1	448.9	421.5	395.9	375.5	360.4	357.4	344.4	344.9
7.5°	491.9	477.8	439.8	397.9	352.5	315.7	282.2	253.0	242.5	231.9	225.6
10°	484.1	464.8	410.7	349.8	285.9	231.9	184.8	148.0	132.7	121.4	115.9
12.5°	486.4	460.8	389.0	306.3	222.2	153.5	104.4	77.5	68.1	62.9	61.1
15°	494.3	461.7	369.5	263.7	161.6	93.0	61.4	52.5	51.7	51.5	51.1
17.5°	501.6	462.5	348.8	219.3	108.1	59.2	49.3	48.6	48.6	48.6	48.6
20°	509.2	462.7	326.1	172.9	71.0	48.6	46.4	45.9	46.4	46.4	46.4
22.5°	518.0	464.5	304.2	127.7	52.5	45.7	44.4	44.1	44.4	44.4	44.1
25°	529.1	468.4	280.4	91.3	47.6	43.9	42.6	42.4	42.6	42.4	42.4
27.5°	543.6	473.6	252.8	65.6	45.4	42.0	40.7	40.7	40.7	40.5	40.5
30°	562.4	480.0	215.6	51.7	43.4	40.2	39.2	39.2	38.9	38.7	38.7
32.5°	589.3	490.1	175.2	46.7	41.0	37.8	36.8	37.0	36.8	36.5	36.3
35°	627.5	506.1	135.2	44.1	38.7	35.5	34.5	34.5	34.5	34.0	34.0
37.5°	681.5	530.3	101.3	41.5	36.3	33.1	31.8	31.8	31.6	31.1	31.3
40°	748.4	560.9	73.3	39.2	34.0	30.6	29.5	28.9	28.4	27.9	27.9
42.5°	828.8	590.7	55.1	36.8	31.6	28.4	27.1	26.6	25.6	25.1	24.8
45°	918.8	622.3	45.7	34.0	28.9	26.1	25.1	24.0	22.7	21.9	21.7
47.5°	994.8	641.6	40.7	31.1	26.4	23.7	22.7	21.2	19.5	19.0	19.0
50°	1040.5	633.5	36.5	28.2	23.7	21.4	20.2	18.0	17.0	16.5	16.2
52.5°	1066.1	609.5	33.1	25.9	21.4	18.8	17.0	15.1	14.6	14.1	14.1
55°	1083.6	574.7	29.5	23.5	19.3	16.5	14.3	13.1	12.6	12.3	12.0
57.5°	1100.4	532.4	26.1	21.4	17.2	14.6	12.3	11.8	10.7	10.4	10.4
60°	1105.3	474.1	23.0	19.0	15.4	12.8	10.7	9.9	8.9	8.6	8.6
62.5°	1042.1	377.3	20.4	16.2	13.6	10.9	9.4	8.4	7.3	7.3	7.3
65°	870.8	256.1	17.5	14.1	12.0	9.4	8.1	6.8	6.2	6.2	6.2
67.5°	606.6	142.8	14.8	12.0	10.2	7.9	6.8	5.7	5.5	5.7	5.7
70°	273.4	56.7	12.6	9.9	8.4	6.5	5.7	4.9	5.5	5.5	5.5
72°	82.0	30.3	10.4	8.1	6.8	5.7	4.9	4.7	5.2	5.5	5.5
72.5°	60.9	27.1	9.9	7.9	6.8	5.5	4.7	4.7	5.2	5.5	5.5
75°	31.3	18.5	7.6	5.7	4.9	4.4	3.9	4.4	5.2	5.2	5.2
77.5°	24.6	15.1	6.2	4.4	4.2	3.9	3.7	4.2	4.7	4.7	4.7
80°	23.0	9.9	4.9	4.2	3.7	3.4	3.4	3.7	4.2	4.4	4.4
82.5°	23.2	8.1	4.4	3.9	3.4	3.2	3.2	3.4	3.9	4.2	4.2
85°	14.8	5.5	3.9	3.4	3.2	2.9	2.9	3.2	3.7	3.9	3.9
87.5°	4.9	4.2	3.4	3.2	2.7	2.7	2.7	2.7	3.2	3.4	3.7
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)