

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: P348832

Luminaire Tested: **ARCH-N-PA1-50-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-50-750-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4767 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52
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

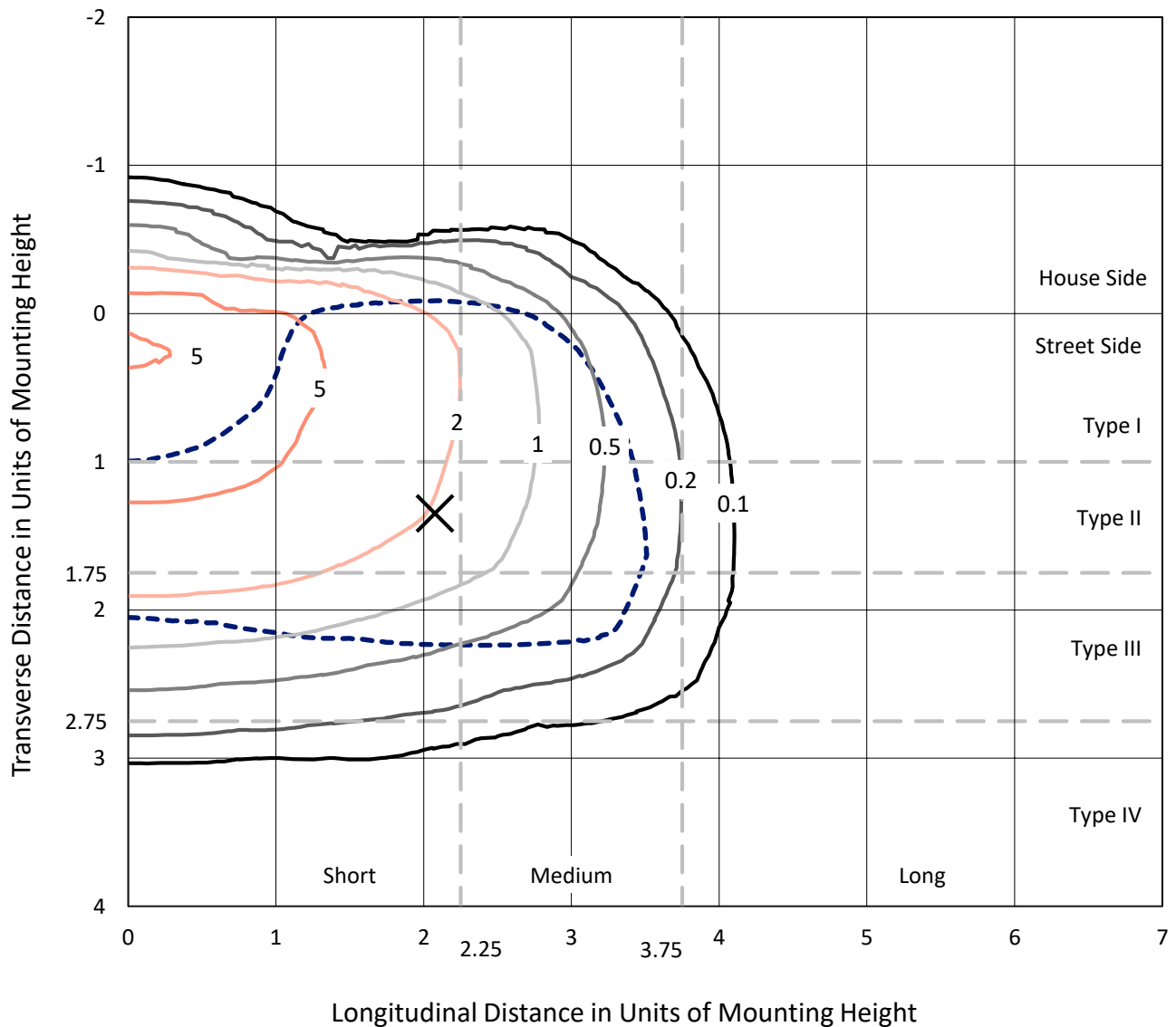


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

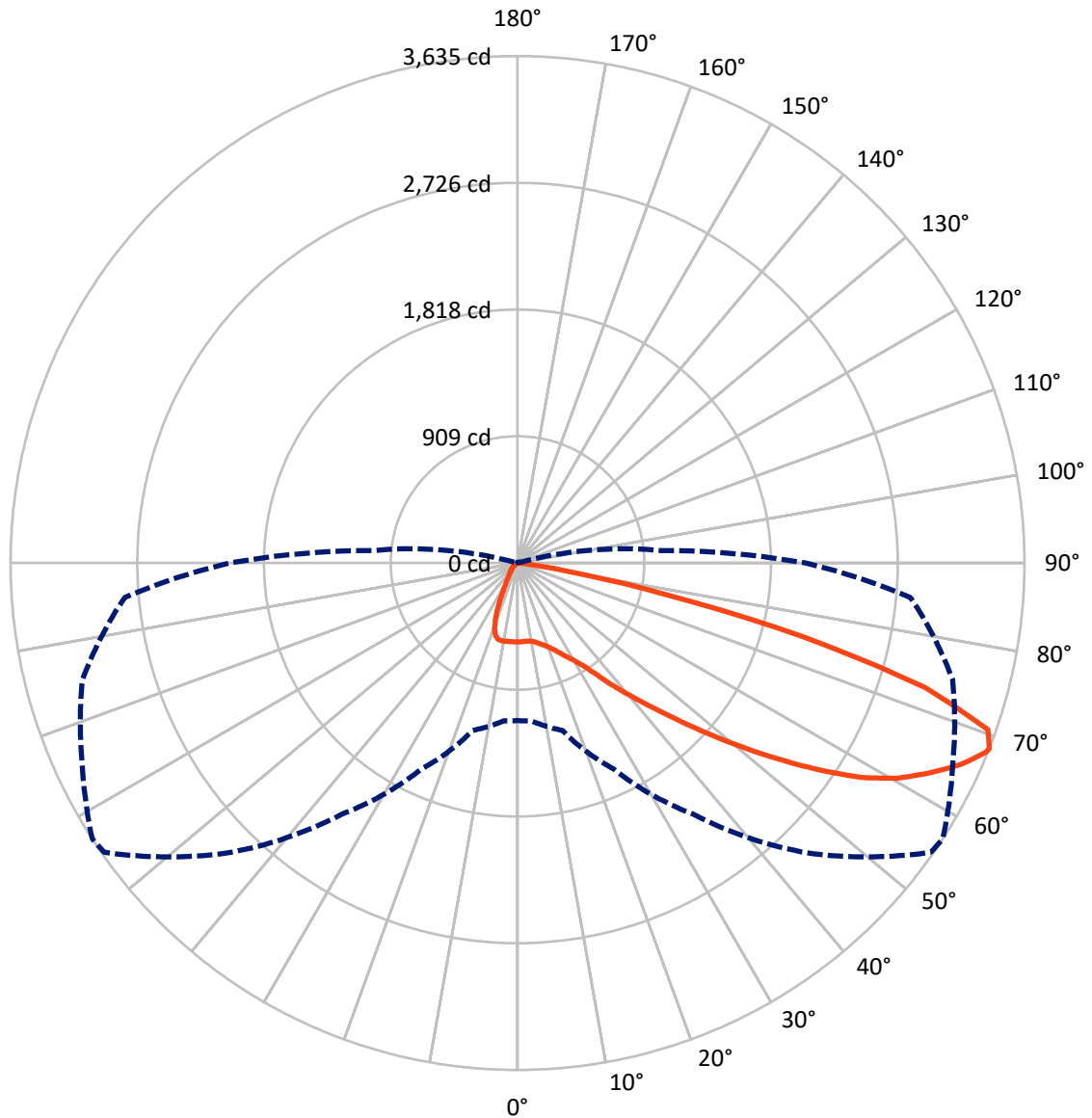


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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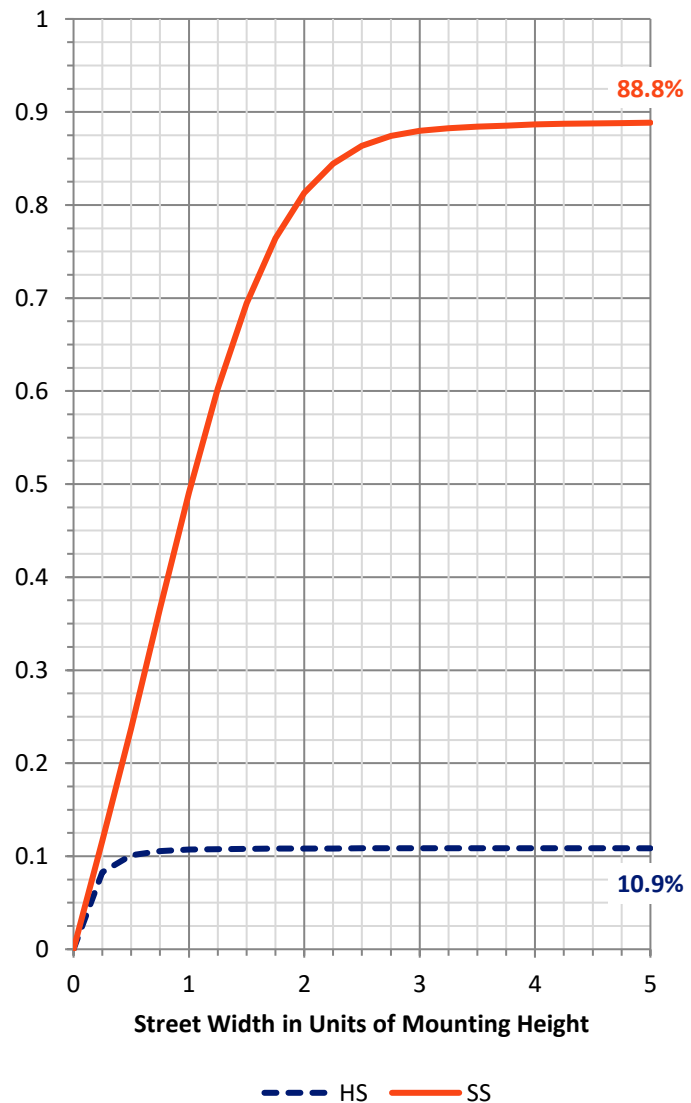
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.7	0.0	522.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4244.3	0.0	4244.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	4767.0	0.0	4767.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	1.1
10°-20°	146.9	3.1
20°-30°	253.4	5.3
30°-40°	437.4	9.2
40°-50°	748.1	15.7
50°-60°	1197.0	25.1
60°-70°	1382.9	29.0
70°-80°	528.4	11.1
80°-90°	19.8	0.4
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°	4767.0	100.0
0°-180°	4767.0	100.0



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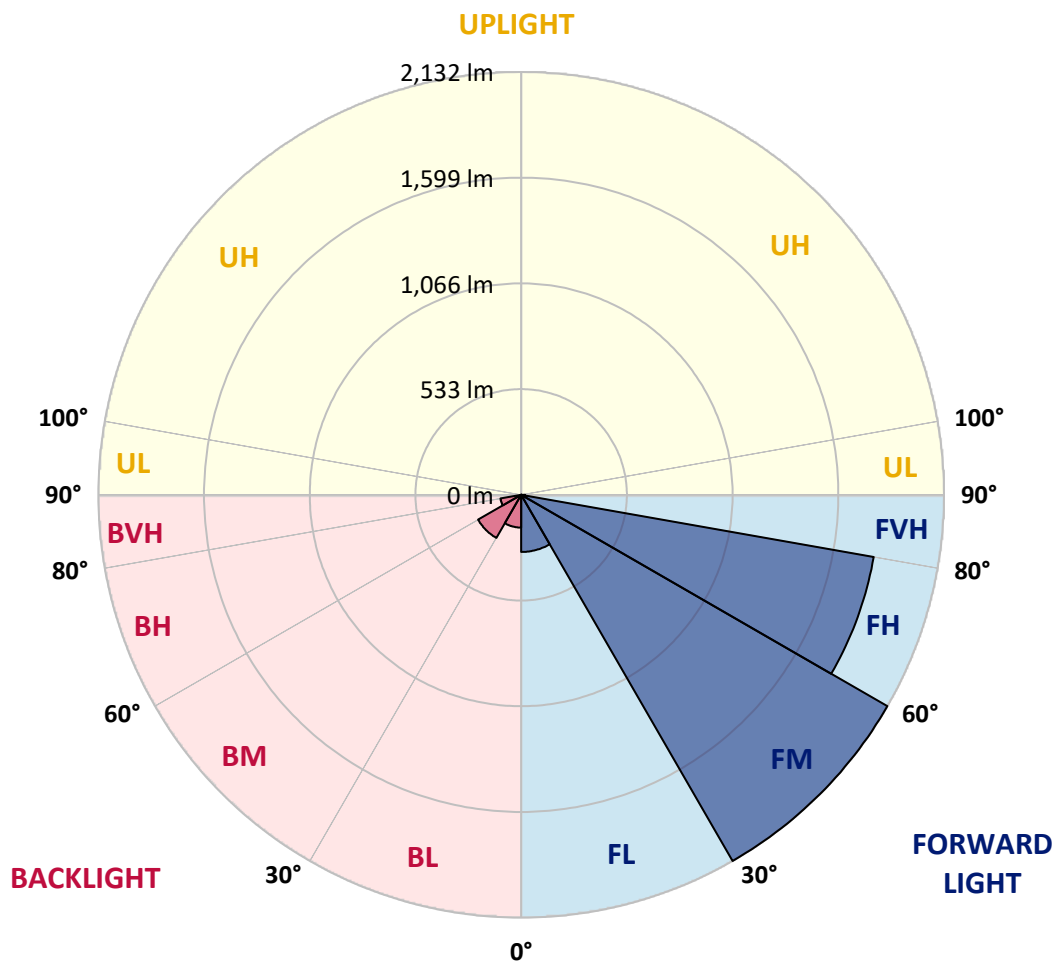
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.1	6.0			
FM (30°-60°)	2131.8	44.7			
FH (60°-80°)	1804.9	37.9			G2/5000
FVH (80°-90°)	19.5	0.4			G1/100
BL (0°-30°)	165.2	3.5	B1/500		
BM (30°-60°)	250.7	5.3	B1/1000		
BH (60°-80°)	106.5	2.2	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4
2.5°	553.1	555.6	557.4	558.6	559.9	562.8	563.7	565.1	565.8	565.8	567.3
5°	531.3	534.0	537.8	541.0	547.3	555.4	561.3	563.5	567.6	571.2	573.2
7.5°	511.0	514.2	518.7	526.1	536.9	550.0	562.2	565.3	573.2	580.9	584.7
10°	497.9	500.4	506.3	516.9	531.1	549.3	566.4	570.3	583.8	596.6	603.9
12.5°	493.4	495.7	501.8	513.7	531.3	552.7	576.4	582.0	601.8	620.5	630.7
15°	500.0	500.4	506.9	518.2	535.6	561.0	592.8	599.6	624.6	648.9	661.6
17.5°	525.2	523.2	526.5	531.5	545.3	572.1	610.2	620.3	653.7	682.3	694.3
20°	588.3	588.3	580.6	567.1	567.3	589.2	633.6	645.1	685.9	719.0	729.9
22.5°	696.3	694.3	678.9	645.8	615.4	618.7	662.2	677.1	724.7	760.1	763.7
25°	826.1	823.6	800.0	753.3	700.6	666.5	701.0	718.1	770.9	802.2	794.8
27.5°	963.6	961.6	938.1	880.2	805.2	742.7	747.2	763.5	818.0	848.9	825.2
30°	1096.8	1097.5	1074.3	1014.8	929.8	839.9	805.8	815.3	863.8	895.1	861.3
32.5°	1223.5	1224.4	1204.3	1137.8	1058.5	952.8	887.0	884.5	917.0	947.8	909.1
35°	1336.4	1338.7	1324.9	1273.3	1189.2	1078.6	992.2	986.4	992.5	1027.4	982.3
37.5°	1445.3	1446.7	1436.3	1392.8	1322.5	1216.7	1125.2	1116.9	1103.8	1130.6	1079.0
40°	1564.5	1561.2	1549.2	1509.8	1449.4	1369.3	1268.1	1253.7	1230.9	1254.8	1206.1
42.5°	1675.4	1671.6	1673.6	1629.0	1578.1	1526.2	1434.7	1409.9	1396.6	1424.1	1362.1
45°	1814.1	1812.0	1818.8	1780.0	1738.8	1701.1	1625.6	1598.6	1592.7	1625.0	1550.8
47.5°	1950.9	1955.8	1976.8	1960.4	1943.7	1910.5	1827.8	1815.6	1819.3	1858.2	1749.8
50°	2064.9	2070.8	2128.3	2147.2	2171.3	2152.0	2069.0	2061.6	2075.8	2110.9	1964.0
52.5°	2147.4	2159.4	2230.8	2318.1	2406.0	2419.1	2336.3	2329.6	2348.7	2354.1	2129.4
55°	2204.7	2215.3	2296.2	2455.8	2634.8	2691.1	2639.7	2613.6	2610.0	2556.6	2303.4
57.5°	2214.8	2213.7	2330.0	2544.8	2814.2	2959.6	2927.1	2901.4	2827.5	2743.6	2502.9
60°	2157.6	2164.1	2299.1	2575.7	2926.9	3162.7	3165.2	3131.8	3016.6	2925.5	2696.3
62.5°	1981.3	2007.9	2144.3	2494.8	2925.5	3244.5	3339.6	3314.1	3176.4	3074.5	2892.4
65°	1695.5	1705.0	1835.0	2217.5	2727.9	3210.2	3496.7	3487.3	3320.5	3219.2	2993.2
67.5°	1238.2	1217.6	1354.2	1746.2	2309.5	3010.5	3609.4	3621.4	3431.6	3249.0	2885.9
68°	1130.0	1136.0	1242.4	1629.7	2200.0	2940.0	3616.9	3635.1	3442.6	3229.6	2827.3
70°	673.5	685.2	780.1	1122.1	1673.6	2540.8	3536.6	3578.3	3376.8	3029.7	2445.4
72.5°	172.0	186.0	275.7	502.2	955.9	1790.2	2985.5	3056.1	2931.9	2457.8	1650.9
75°	70.8	74.4	98.5	165.4	356.1	806.5	1967.8	2118.8	2032.5	1471.5	746.1
77.5°	48.9	51.4	63.3	91.7	154.2	273.4	964.7	1073.8	967.4	502.2	162.7
80°	35.2	37.2	45.3	61.1	88.6	97.6	314.4	363.6	288.7	110.2	40.3
82.5°	21.0	22.5	33.8	43.5	53.9	46.7	78.2	88.8	83.6	54.8	18.0
85°	10.4	12.2	22.8	31.1	29.1	19.6	23.9	26.6	32.9	33.4	9.7
87.5°	0.7	1.4	13.3	18.7	8.1	4.5	7.0	8.6	11.7	16.5	4.1
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°	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4
2.5°	568.0	568.2	566.7	566.0	566.4	563.7	562.6	563.1	563.1	563.7	562.6
5°	573.7	573.7	571.0	567.3	565.3	560.1	556.8	555.9	555.2	554.7	553.8
7.5°	585.8	584.5	579.7	571.9	565.1	553.8	545.3	540.7	538.5	537.6	536.9
10°	605.4	603.0	595.1	580.4	564.9	544.8	526.1	512.8	501.8	497.2	494.5
12.5°	631.8	628.2	614.9	590.6	563.3	526.3	485.7	446.8	410.5	395.6	388.1
15°	662.2	657.1	636.1	599.1	554.0	484.6	396.5	328.2	277.9	259.0	250.9
17.5°	693.1	686.4	654.6	604.5	526.3	398.3	278.2	210.1	176.5	167.5	164.3
20°	724.2	714.3	670.6	600.5	463.7	287.2	183.5	153.5	143.8	141.1	140.2
22.5°	753.8	738.4	685.0	584.7	367.2	192.7	145.2	135.7	132.5	131.0	130.5
25°	779.5	758.0	697.6	536.0	259.9	145.6	130.7	127.6	123.5	120.6	120.8
27.5°	803.6	777.7	705.3	455.8	173.3	124.4	121.0	116.8	109.3	105.0	105.0
30°	832.6	803.8	710.9	350.7	127.6	110.0	107.3	100.8	90.6	85.0	85.0
32.5°	876.4	843.5	707.3	246.1	105.7	96.7	90.4	81.4	70.3	64.9	64.7
35°	943.3	904.8	681.6	161.4	93.3	84.1	73.9	62.9	53.2	48.7	48.5
37.5°	1033.5	986.8	623.9	115.4	83.6	72.4	60.2	48.0	40.8	37.9	37.6
40°	1150.5	1082.2	541.4	93.5	74.6	61.1	46.4	37.2	32.2	30.0	30.2
42.5°	1290.9	1184.3	442.5	80.7	65.8	50.3	36.3	29.3	26.1	24.6	24.1
45°	1446.9	1285.0	338.8	71.9	57.0	40.6	28.4	23.2	20.7	19.8	19.8
47.5°	1618.4	1383.1	247.9	64.2	47.6	31.3	22.8	18.9	16.9	16.2	16.0
50°	1774.2	1451.2	178.7	56.1	39.0	24.8	18.5	15.8	14.4	13.5	13.5
52.5°	1904.0	1472.6	131.6	47.3	31.6	19.8	15.3	13.5	12.2	11.5	11.5
55°	2018.3	1463.8	97.8	39.0	25.5	16.2	13.1	11.5	10.4	9.7	9.7
57.5°	2127.8	1435.4	73.0	31.8	20.5	13.1	11.0	9.7	8.6	8.1	8.1
60°	2217.3	1388.1	54.3	25.7	16.5	10.6	9.2	7.9	7.0	6.3	6.3
62.5°	2289.9	1335.8	39.9	21.2	13.1	8.3	7.2	6.5	5.2	4.5	4.5
65°	2290.4	1249.0	30.0	17.6	10.1	6.5	5.4	5.2	3.4	2.7	2.5
67.5°	2124.7	1076.8	23.0	15.1	7.9	5.0	4.1	4.3	1.8	1.1	0.9
68°	2064.5	1033.0	21.6	14.9	7.4	4.7	3.8	4.3	1.6	0.9	0.7
70°	1740.6	821.8	17.4	14.4	6.5	3.6	3.2	4.3	1.4	0.7	0.5
72.5°	1113.3	477.0	12.8	11.5	5.0	2.7	2.0	3.8	1.4	0.5	0.2
75°	473.8	147.9	8.8	8.1	2.9	2.0	1.4	2.5	0.9	0.2	0.0
77.5°	99.9	33.4	5.2	5.0	2.0	1.4	0.9	0.7	0.2	0.0	0.0
80°	25.7	9.7	2.7	2.5	1.1	0.7	0.5	0.0	0.0	0.0	0.0
82.5°	8.1	3.8	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)