

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: McGRAW-EDISON

Report Number: P382786

Luminaire Tested: **GLEON-SA1C-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382786
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: McGRAW-EDISON
Catalog Number: GLEON-SA1C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5027.6 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

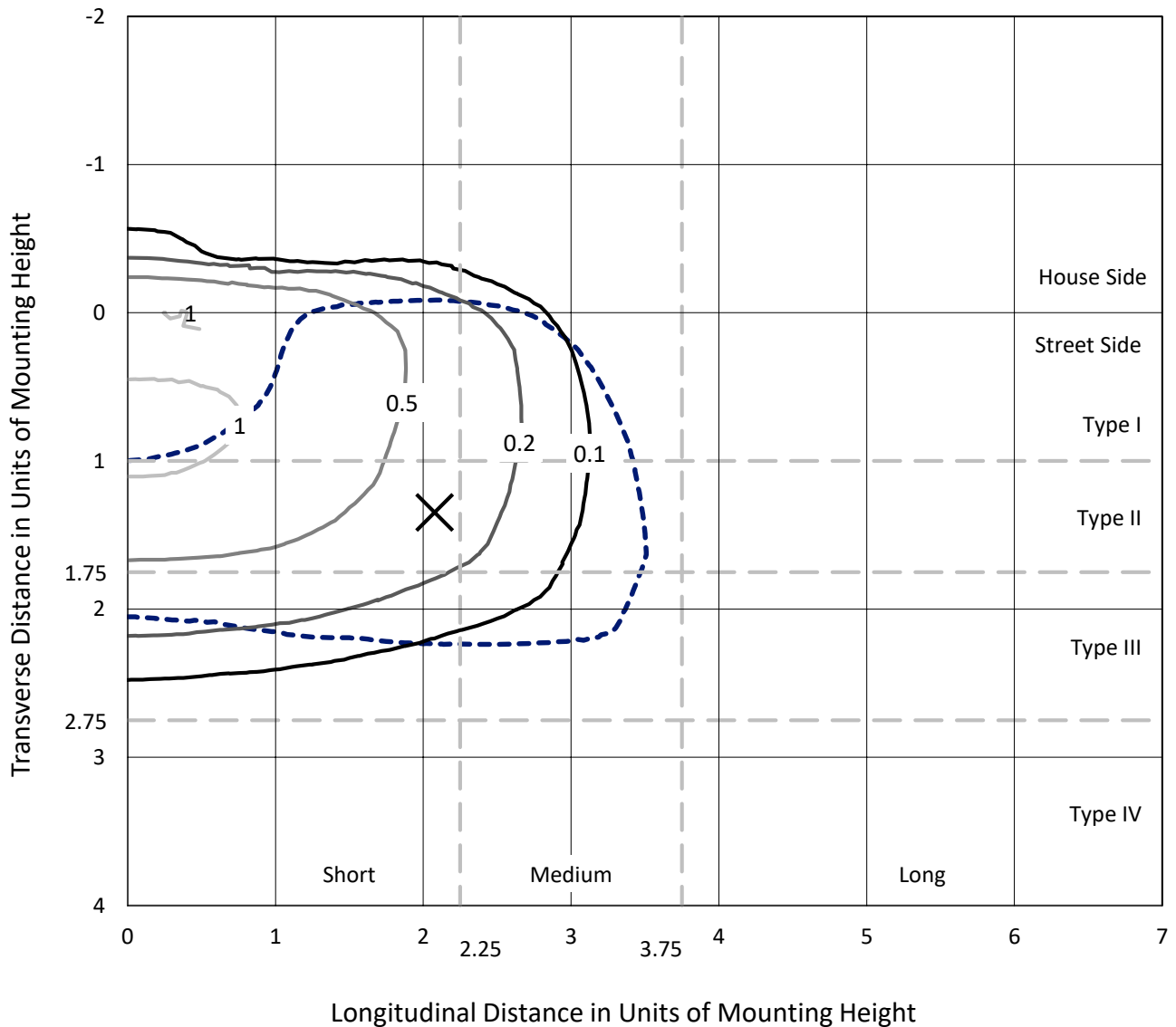
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

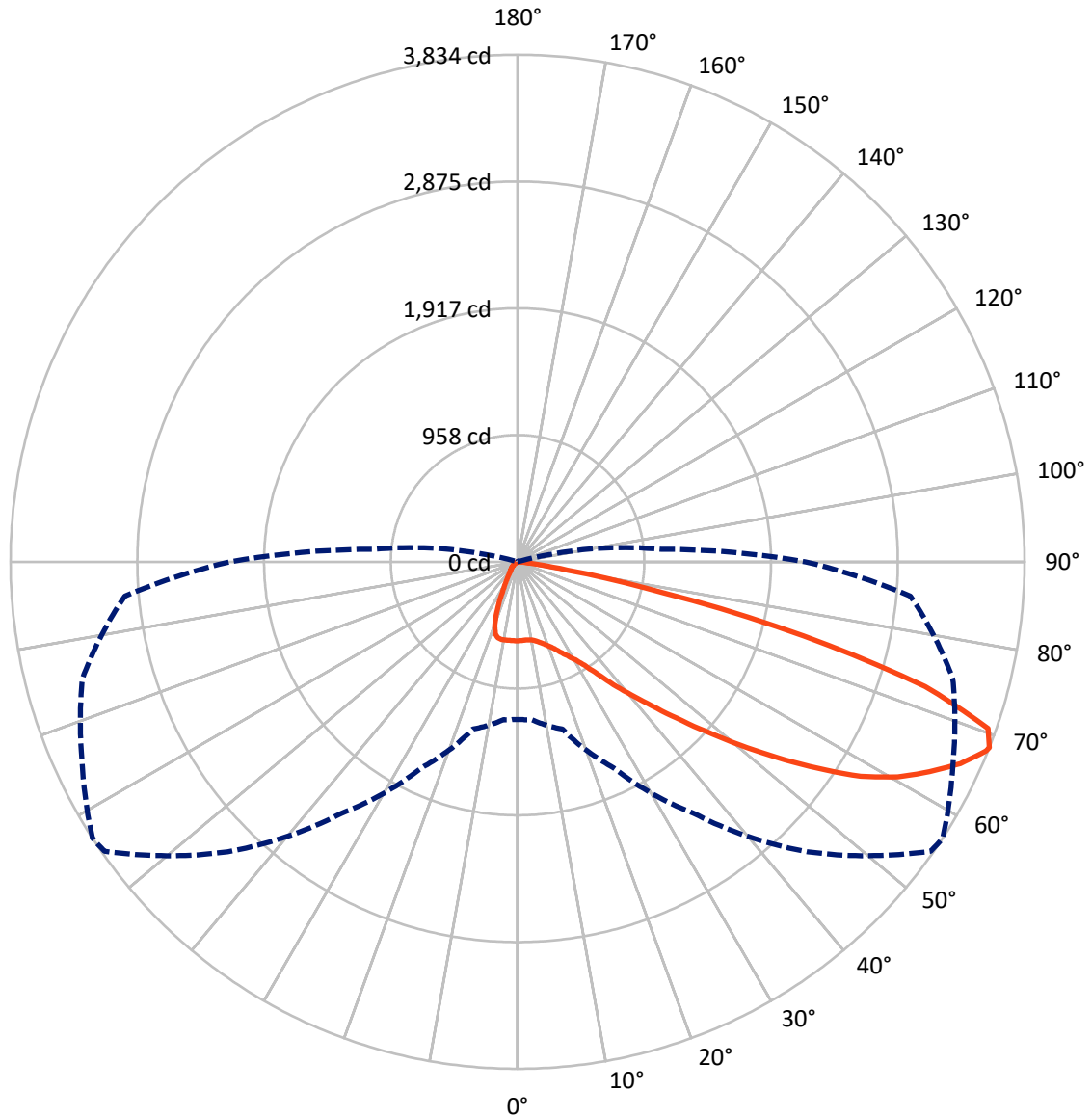
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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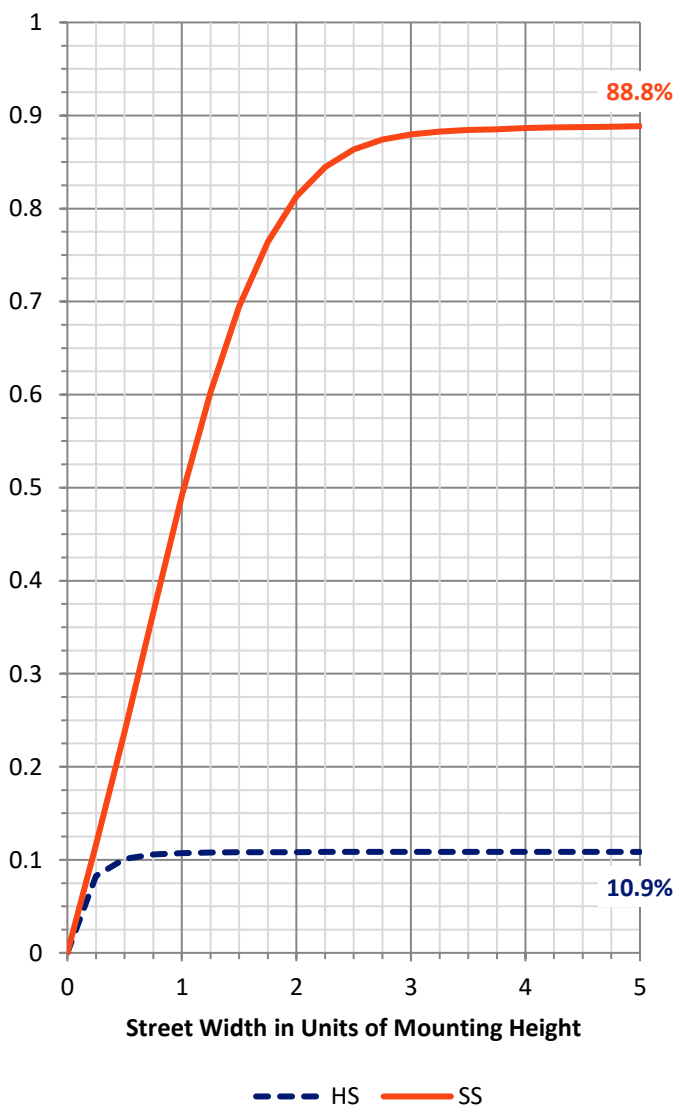
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.3	0.0	551.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4476.3	0.0	4476.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	5027.6	0.0	5027.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.1
10°-20°	154.9	3.1
20°-30°	267.3	5.3
30°-40°	461.3	9.2
40°-50°	789.0	15.7
50°-60°	1262.4	25.1
60°-70°	1458.5	29.0
70°-80°	557.3	11.1
80°-90°	20.9	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°	5027.6	100.0
0°-180°	5027.6	100.0

Coefficient of Utilization



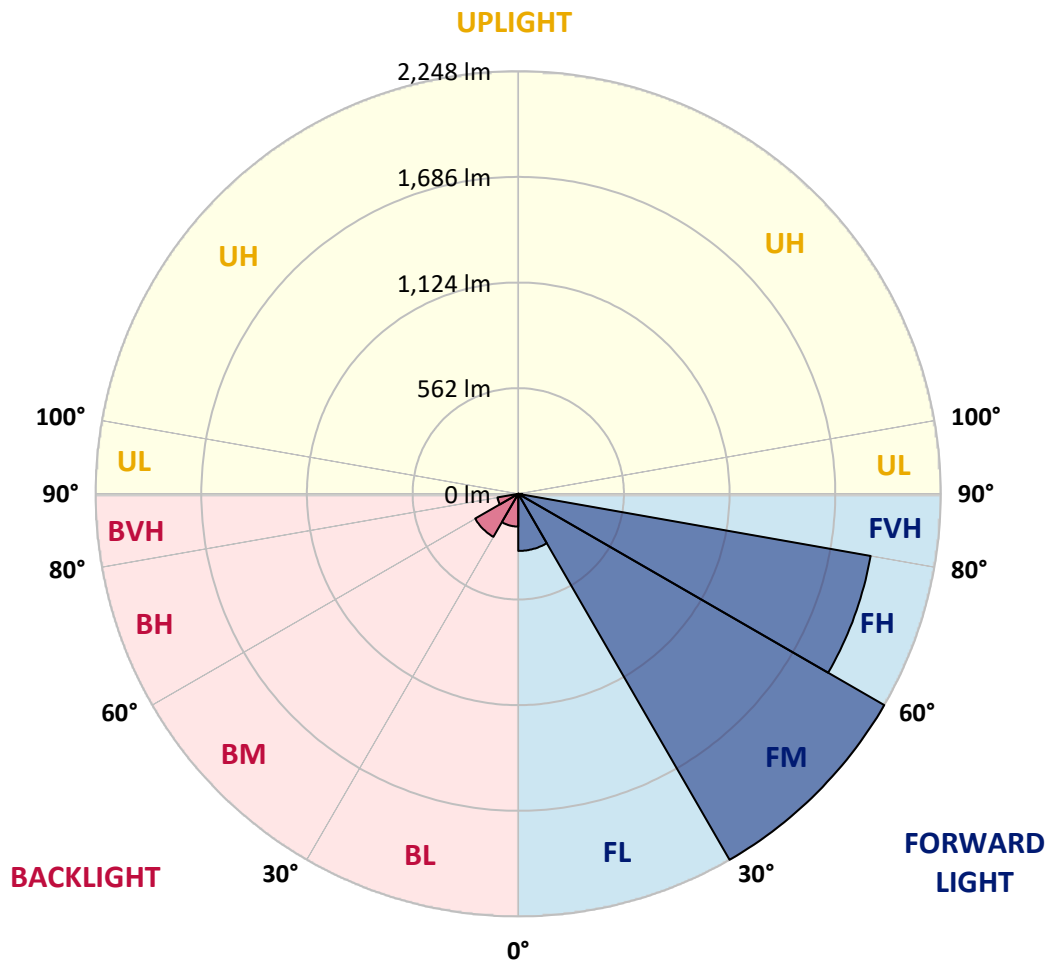
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.9	6.0			
FM (30°-60°)	2248.3	44.7			
FH (60°-80°)	1903.6	37.9			G2/5000
FVH (80°-90°)	20.5	0.4			G1/100
BL (0°-30°)	174.2	3.5	B1/500		
BM (30°-60°)	264.4	5.3	B1/1000		
BH (60°-80°)	112.3	2.2	B1/500		G1/500
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°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	583.3	586.0	587.9	589.1	590.5	593.6	594.5	596.0	596.7	596.7	598.3
5°	560.3	563.2	567.2	570.6	577.2	585.8	591.9	594.3	598.6	602.4	604.6
7.5°	538.9	542.3	547.0	554.8	566.3	580.1	592.9	596.2	604.6	612.6	616.7
10°	525.1	527.7	534.0	545.1	560.0	579.3	597.4	601.4	615.8	629.3	636.9
12.5°	520.4	522.8	529.2	541.8	560.3	582.9	607.8	613.8	634.8	654.5	665.1
15°	527.3	527.7	534.6	546.5	564.8	591.7	625.3	632.3	658.7	684.4	697.7
17.5°	553.9	551.8	555.3	560.6	575.0	603.4	643.5	654.2	689.4	719.6	732.2
20°	620.5	620.5	612.4	598.1	598.3	621.4	668.3	680.4	723.4	758.4	769.7
22.5°	734.3	732.2	716.0	681.1	649.0	652.5	698.5	714.1	764.3	801.6	805.4
25°	871.3	868.7	843.7	794.5	738.8	702.9	739.4	757.4	813.1	846.0	838.2
27.5°	1016.3	1014.2	989.4	928.3	849.2	783.3	788.1	805.1	862.7	895.3	870.3
30°	1156.8	1157.4	1133.0	1070.3	980.6	885.8	849.9	859.8	911.0	944.0	908.4
32.5°	1290.4	1291.3	1270.2	1200.0	1116.4	1004.9	935.5	932.9	967.0	999.6	958.7
35°	1409.5	1411.9	1397.3	1342.9	1254.2	1137.5	1046.5	1040.3	1046.7	1083.6	1036.0
37.5°	1524.3	1525.7	1514.8	1469.0	1394.7	1283.2	1186.7	1177.9	1164.2	1192.5	1138.0
40°	1650.1	1646.5	1633.9	1592.3	1528.6	1444.2	1337.4	1322.2	1298.2	1323.4	1272.1
42.5°	1767.1	1763.0	1765.1	1718.1	1664.3	1609.6	1513.1	1486.9	1473.0	1501.9	1436.5
45°	1913.2	1911.1	1918.2	1877.3	1833.8	1794.2	1714.5	1685.9	1679.8	1713.8	1635.5
47.5°	2057.5	2062.7	2084.9	2067.5	2049.9	2014.9	1927.7	1914.9	1918.7	1959.8	1845.5
50°	2177.8	2184.0	2244.7	2264.6	2290.0	2269.5	2182.1	2174.2	2189.2	2226.3	2071.3
52.5°	2264.8	2277.4	2352.8	2444.8	2537.5	2551.3	2464.0	2456.9	2477.1	2482.9	2245.8
55°	2325.2	2336.4	2421.7	2590.1	2778.8	2838.2	2784.0	2756.4	2752.6	2696.3	2429.3
57.5°	2335.9	2334.7	2457.4	2684.0	2968.0	3121.3	3087.1	3060.0	2982.1	2893.6	2639.7
60°	2275.5	2282.4	2424.8	2716.5	3086.9	3335.5	3338.2	3303.0	3181.5	3085.5	2843.6
62.5°	2089.6	2117.7	2261.5	2631.2	3085.5	3421.9	3522.2	3495.3	3350.0	3242.6	3050.5
65°	1788.2	1798.2	1935.3	2338.7	2877.0	3385.7	3687.8	3677.8	3502.0	3395.2	3156.7
67.5°	1305.8	1284.2	1428.2	1841.7	2435.7	3175.1	3806.7	3819.3	3619.2	3426.6	3043.6
68°	1191.7	1198.2	1310.3	1718.8	2320.2	3100.7	3814.6	3833.8	3630.8	3406.1	2981.8
70°	710.3	722.7	822.7	1183.4	1765.1	2679.7	3729.9	3773.9	3561.4	3195.3	2579.1
72.5°	181.4	196.1	290.7	529.7	1008.2	1888.1	3148.7	3223.1	3092.1	2592.1	1741.2
75°	74.6	78.4	103.9	174.5	375.6	850.6	2075.4	2234.6	2143.6	1551.9	786.9
77.5°	51.6	54.2	66.8	96.8	162.6	288.4	1017.4	1132.6	1020.3	529.7	171.7
80°	37.1	39.2	47.8	64.5	93.4	102.9	331.6	383.4	304.5	116.3	42.6
82.5°	22.1	23.8	35.7	45.9	56.8	49.2	82.5	93.6	88.2	57.8	19.0
85°	10.9	12.9	24.0	32.8	30.6	20.7	25.2	28.0	34.7	35.2	10.2
87.5°	0.7	1.4	14.1	19.7	8.6	4.8	7.4	9.0	12.4	17.3	4.3
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°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	599.1	599.3	597.7	596.9	597.4	594.5	593.4	593.9	593.9	594.5	593.4
5°	605.0	605.0	602.2	598.3	596.2	590.8	587.2	586.2	585.5	585.0	584.1
7.5°	617.9	616.4	611.5	603.1	596.0	584.1	575.0	570.3	568.0	566.9	566.3
10°	638.6	635.9	627.6	612.1	595.7	574.6	554.8	540.9	529.2	524.5	521.6
12.5°	666.3	662.5	648.5	622.8	594.0	555.1	512.3	471.2	432.9	417.2	409.3
15°	698.5	693.0	670.9	631.9	584.4	511.1	418.2	346.2	293.2	273.1	264.6
17.5°	731.0	723.9	690.4	637.6	555.1	420.0	293.3	221.5	186.1	176.6	173.3
20°	763.8	753.3	707.2	633.3	489.0	302.8	193.5	161.9	151.7	148.9	147.8
22.5°	795.0	778.8	722.4	616.7	387.2	203.3	153.1	143.1	139.8	138.1	137.7
25°	822.1	799.5	735.7	565.4	274.1	153.6	137.9	134.5	130.2	127.2	127.4
27.5°	847.5	820.1	743.8	480.7	182.8	131.3	127.6	123.2	115.3	110.8	110.8
30°	878.2	847.7	749.8	369.9	134.5	116.0	113.2	106.3	95.6	89.6	89.6
32.5°	924.3	889.5	746.0	259.6	111.5	102.0	95.3	85.8	74.2	68.5	68.2
35°	994.9	954.3	718.9	170.2	98.5	88.7	78.0	66.3	56.1	51.3	51.1
37.5°	1090.0	1040.7	658.0	121.8	88.2	76.3	63.4	50.7	43.0	40.0	39.7
40°	1213.3	1141.3	571.0	98.7	78.7	64.5	49.0	39.2	34.0	31.6	31.9
42.5°	1361.5	1249.0	466.6	85.1	69.4	53.0	38.3	30.9	27.6	25.9	25.4
45°	1526.0	1355.3	357.3	75.8	60.2	42.8	30.0	24.5	21.9	21.0	21.0
47.5°	1706.9	1458.7	261.5	67.7	50.1	33.1	24.0	19.9	17.8	17.1	16.9
50°	1871.1	1530.4	188.5	59.2	41.1	26.2	19.5	16.7	15.2	14.3	14.3
52.5°	2008.0	1553.1	138.8	49.9	33.3	21.0	16.2	14.3	12.9	12.1	12.1
55°	2128.6	1543.8	103.2	41.1	26.8	17.1	13.8	12.1	10.9	10.2	10.2
57.5°	2244.1	1513.9	77.0	33.5	21.6	13.8	11.6	10.2	9.0	8.6	8.6
60°	2338.6	1463.9	57.3	27.1	17.3	11.2	9.8	8.3	7.4	6.6	6.6
62.5°	2415.0	1408.8	42.1	22.4	13.8	8.8	7.6	6.9	5.5	4.8	4.8
65°	2415.5	1317.2	31.6	18.5	10.7	6.9	5.7	5.5	3.5	2.9	2.6
67.5°	2240.8	1135.6	24.2	15.9	8.3	5.2	4.3	4.5	1.9	1.2	0.9
68°	2177.3	1089.5	22.8	15.6	7.8	5.0	4.0	4.5	1.7	0.9	0.7
70°	1835.7	866.7	18.4	15.2	6.9	3.8	3.4	4.5	1.4	0.7	0.5
72.5°	1174.1	503.0	13.5	12.1	5.2	2.9	2.1	4.0	1.4	0.5	0.3
75°	499.7	155.9	9.3	8.6	3.1	2.1	1.4	2.6	0.9	0.3	0.0
77.5°	105.4	35.2	5.5	5.2	2.1	1.4	0.9	0.7	0.3	0.0	0.0
80°	27.1	10.2	2.9	2.6	1.2	0.7	0.5	0.0	0.0	0.0	0.0
82.5°	8.6	4.0	1.7	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.7	0.3	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)