

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: P651753

Luminaire Tested: **GALN-SA2A-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5678.4 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

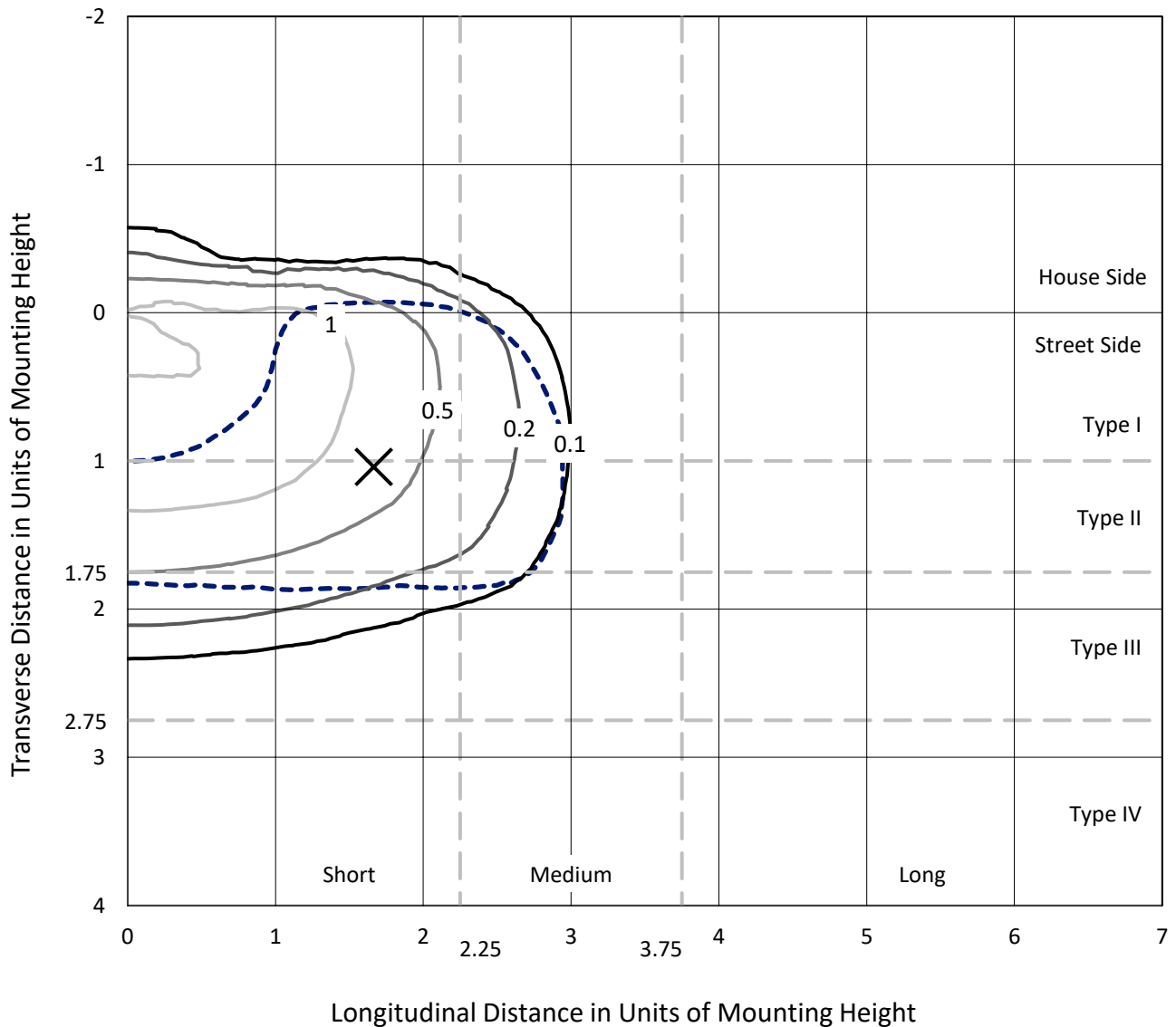
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

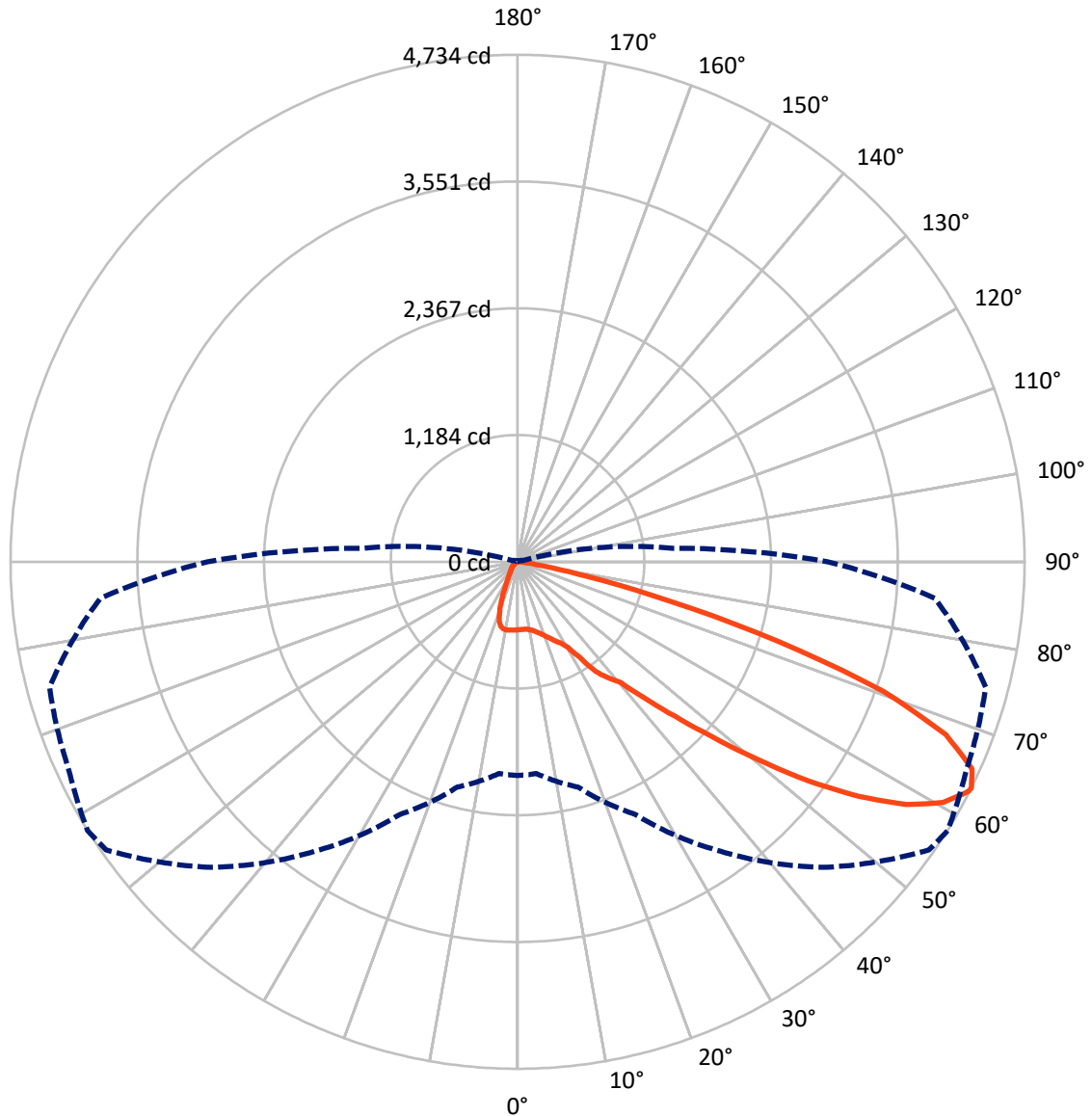
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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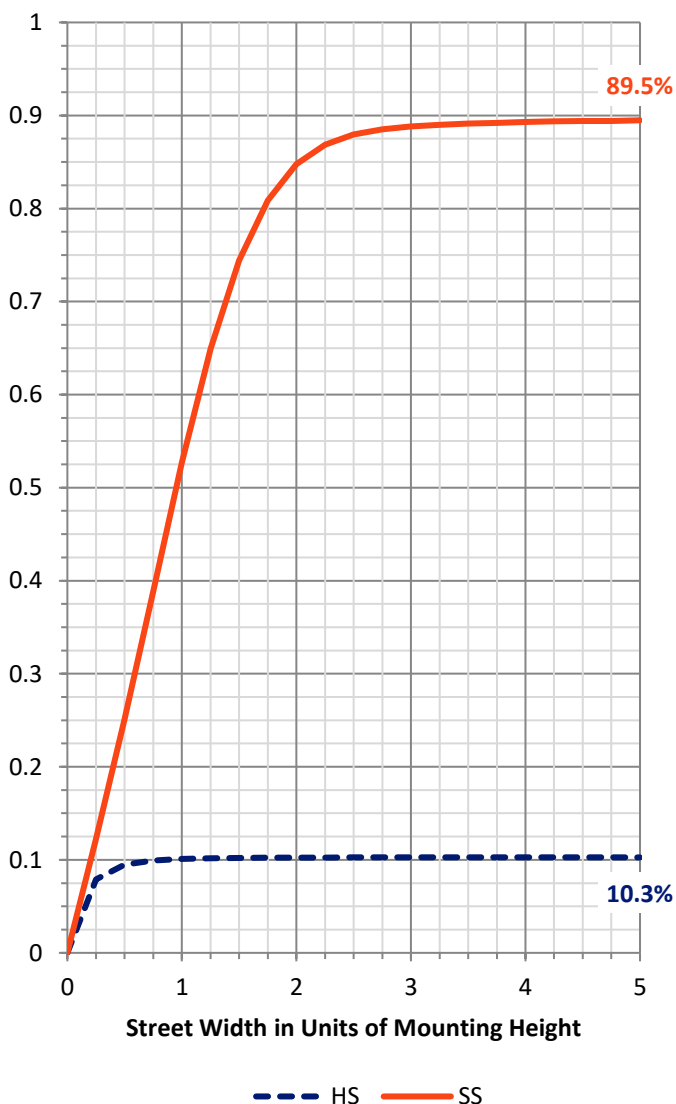
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.0	0.0	588.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5090.5	0.0	5090.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	5678.4	0.0	5678.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	1.0
10°-20°	162.1	2.9
20°-30°	281.3	5.0
30°-40°	517.0	9.1
40°-50°	973.1	17.1
50°-60°	1664.5	29.3
60°-70°	1593.7	28.1
70°-80°	406.4	7.2
80°-90°	20.8	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°	5678.4	100.0
0°-180°	5678.4	100.0

Coefficient of Utilization



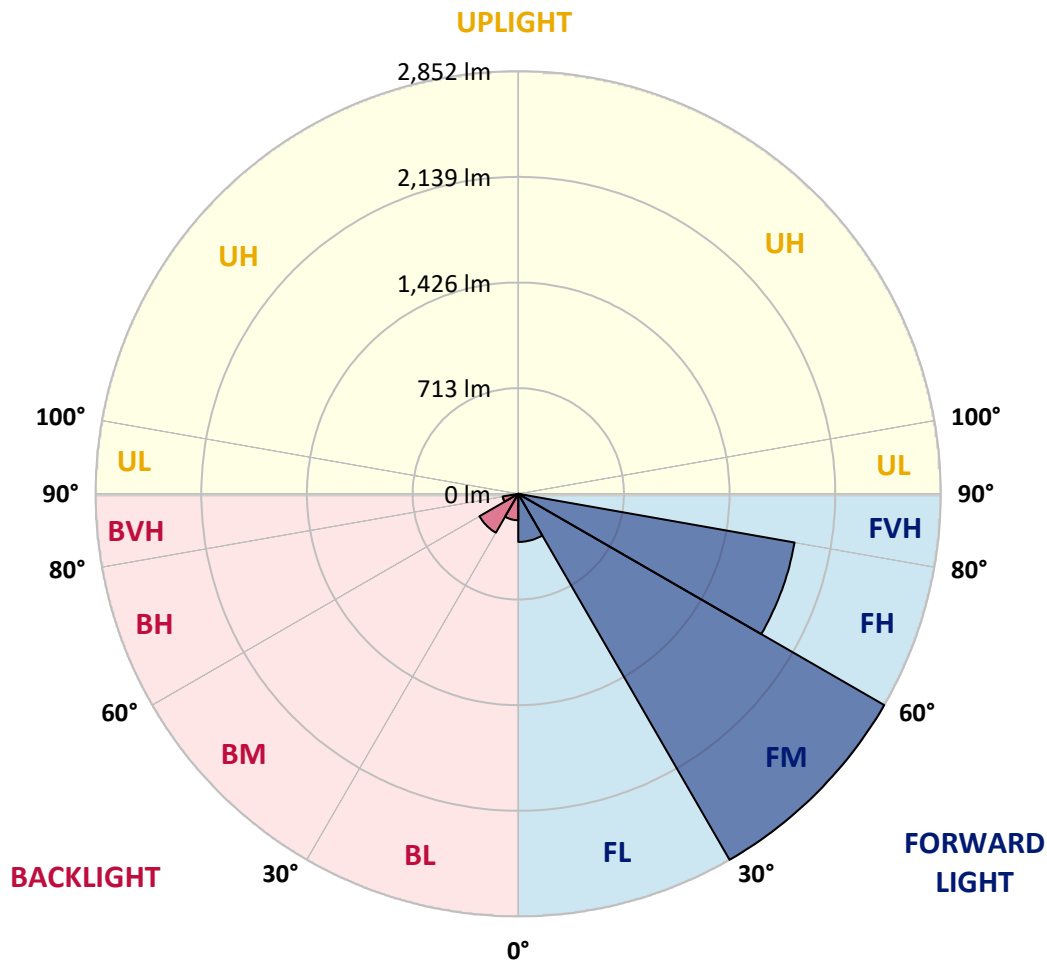
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.6	5.7			
FM (30°-60°)	2852.2	50.2			
FH (60°-80°)	1893.7	33.3			G2/5000
FVH (80°-90°)	20.0	0.4			G1/100
BL (0°-30°)	178.3	3.1	B1/500		
BM (30°-60°)	302.4	5.3	B1/1000		
BH (60°-80°)	106.4	1.9	B0/110		G0/110
BVH (80°-90°)	0.8	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°	58°	65°	75°	85°
0°	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7
2.5°	619.9	622.0	624.2	625.0	628.1	631.0	633.2	632.8	636.1	637.9	637.9
5°	595.1	595.1	600.6	605.8	614.4	622.9	631.0	632.8	639.2	645.1	647.2
7.5°	574.2	575.4	579.7	589.1	600.6	615.6	631.8	635.7	646.8	660.1	665.7
10°	564.3	565.2	570.7	580.5	595.1	615.6	638.3	645.6	662.6	683.6	691.3
12.5°	562.2	563.5	569.0	580.1	596.9	621.6	652.4	660.1	684.9	711.8	723.3
15°	566.1	566.9	572.5	584.4	602.8	632.3	671.2	681.9	711.4	742.6	757.6
17.5°	579.7	578.9	582.7	592.6	613.1	645.6	693.8	706.7	741.3	784.1	793.9
20°	637.9	632.3	628.9	620.3	628.5	664.4	721.2	740.0	782.8	826.4	833.3
22.5°	763.1	750.8	726.4	693.0	667.3	690.0	754.1	776.0	831.1	873.9	873.9
25°	922.6	906.8	882.4	809.7	746.9	732.3	791.4	818.7	883.7	926.9	912.7
27.5°	1122.2	1109.9	1062.4	977.7	881.5	806.3	834.5	859.8	930.3	982.5	952.9
30°	1284.7	1278.7	1239.8	1164.1	1058.1	948.2	914.9	931.6	992.3	1052.6	1022.2
32.5°	1422.0	1422.0	1382.2	1311.6	1212.5	1115.0	1051.2	1063.3	1121.4	1191.1	1134.7
35°	1572.8	1567.7	1535.7	1468.6	1357.4	1271.4	1245.4	1261.6	1314.2	1366.0	1227.0
37.5°	1731.5	1729.8	1696.4	1631.5	1540.8	1432.6	1371.5	1375.8	1402.7	1434.3	1335.2
40°	1903.8	1906.3	1862.7	1822.5	1737.0	1626.3	1509.2	1482.2	1507.4	1596.8	1534.8
42.5°	2107.2	2101.2	2082.5	2027.7	1958.9	1892.7	1752.0	1742.1	1764.3	1860.1	1793.0
45°	2343.7	2352.2	2319.7	2289.4	2243.2	2188.0	2070.5	2053.4	2077.8	2226.5	2131.2
47.5°	2580.5	2572.4	2593.3	2587.8	2612.6	2571.5	2467.7	2432.6	2491.1	2632.2	2492.1
50°	2760.9	2769.9	2813.5	2877.2	2983.7	3006.7	2907.2	2895.1	2921.2	3011.9	2814.8
52.5°	2878.1	2908.0	2976.4	3140.1	3332.1	3481.3	3405.6	3399.2	3388.6	3412.9	3123.5
55°	2954.6	2985.0	3074.3	3315.4	3645.9	3888.3	3892.1	3864.8	3794.3	3776.7	3412.0
57.5°	2907.6	2913.6	3041.0	3363.3	3819.9	4178.6	4304.2	4276.9	4146.6	4080.3	3666.8
60°	2613.4	2625.9	2803.2	3182.0	3744.2	4273.5	4577.5	4565.0	4422.2	4347.5	3865.2
62.5°	2092.3	2128.2	2310.7	2733.2	3392.3	4113.6	4688.2	4723.2	4612.1	4509.0	3927.6
63°	1996.5	1985.0	2177.8	2602.3	3299.2	4034.5	4689.9	4734.3	4620.6	4524.4	3910.6
65°	1478.0	1512.5	1637.8	2052.1	2745.5	3666.4	4584.3	4662.9	4589.0	4456.5	3721.2
67.5°	829.8	828.1	966.6	1342.8	1921.7	2876.0	4145.2	4311.6	4296.2	3999.0	3084.5
70°	406.1	412.6	469.4	696.0	1114.6	1984.1	3444.6	3624.1	3629.7	3141.0	2132.9
72.5°	183.8	186.8	227.4	339.0	572.9	1056.4	2373.6	2545.0	2513.4	2001.7	1177.8
75°	97.1	103.4	125.2	170.6	276.2	435.6	1291.1	1456.9	1390.8	914.5	433.5
77.5°	71.8	73.9	85.1	108.6	147.9	169.7	557.1	662.6	620.7	330.9	143.6
80°	52.6	54.3	63.2	77.0	93.2	86.4	209.9	240.7	215.9	112.4	44.1
82.5°	32.0	32.5	46.2	57.3	58.5	48.3	69.3	74.4	77.8	63.2	24.0
85°	11.5	14.5	31.2	41.5	34.6	24.4	29.1	32.0	35.1	40.2	14.1
87.5°	1.3	1.7	15.0	20.1	9.8	9.0	10.7	11.9	12.9	15.0	6.8
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°	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7
2.5°	639.6	641.3	640.0	637.9	637.4	636.1	633.6	633.6	633.6	634.5	633.6
5°	649.0	650.3	647.2	643.0	638.3	632.3	625.9	622.0	621.6	620.7	618.6
7.5°	666.9	668.7	661.8	651.5	638.7	624.2	610.5	597.7	591.7	587.0	587.0
10°	693.0	694.8	681.0	662.6	637.0	607.5	575.0	545.6	522.4	511.7	509.1
12.5°	724.2	725.1	702.4	670.4	628.1	571.2	501.9	437.3	392.5	372.0	369.8
15°	758.4	752.4	722.5	673.3	602.4	496.4	376.7	297.5	251.0	237.2	242.4
17.5°	793.1	782.0	737.9	668.7	544.6	376.7	253.1	203.1	188.6	184.7	184.7
20°	825.5	810.1	749.0	648.2	444.6	259.5	187.7	175.7	173.2	170.6	171.0
22.5°	858.1	834.5	758.8	602.4	331.4	185.5	168.0	164.2	160.7	157.4	156.9
25°	889.7	857.1	762.7	517.7	225.7	159.5	153.5	148.4	141.5	137.7	136.8
27.5°	922.6	884.6	760.1	410.8	164.6	142.8	136.8	129.5	121.4	114.5	114.5
30°	985.8	936.7	751.2	295.4	138.5	125.7	118.0	106.5	97.5	90.7	90.2
32.5°	1072.2	1004.7	720.4	207.8	123.1	110.8	99.2	86.4	77.0	71.8	71.8
35°	1149.1	1073.1	662.6	153.1	110.8	96.2	82.1	69.7	62.4	59.0	57.7
37.5°	1266.3	1173.1	583.1	124.4	98.7	83.3	68.8	57.3	51.3	48.8	48.8
40°	1442.1	1295.4	485.7	109.0	87.2	71.0	57.3	48.3	43.6	40.6	40.6
42.5°	1660.0	1445.0	386.9	97.9	76.5	61.1	47.9	41.0	36.8	34.6	34.2
45°	1934.6	1602.8	298.0	87.6	68.0	52.1	40.6	34.6	30.4	29.1	29.5
47.5°	2221.0	1741.7	230.9	78.6	59.0	44.1	34.6	29.9	26.9	25.2	25.2
50°	2465.5	1837.5	175.3	68.4	52.1	37.2	30.4	26.9	24.4	23.5	23.1
52.5°	2669.8	1865.3	134.2	59.5	45.8	32.0	26.9	24.4	22.2	20.9	20.9
55°	2843.8	1840.9	105.2	50.0	38.5	27.8	24.0	21.8	19.3	18.0	17.5
57.5°	2945.6	1762.7	80.4	41.5	31.2	23.1	20.9	18.4	15.4	13.3	13.3
60°	2996.9	1648.9	61.6	34.2	24.0	18.4	17.1	13.7	10.7	9.0	8.6
62.5°	2935.3	1498.0	46.6	26.9	18.0	13.7	11.5	9.8	6.8	5.1	5.1
63°	2897.3	1454.4	44.9	25.7	16.7	12.9	10.7	9.0	6.0	4.7	4.3
65°	2641.2	1264.2	36.8	20.5	13.3	9.0	7.2	6.4	4.3	2.1	1.7
67.5°	2097.5	967.1	29.1	15.4	9.4	6.4	4.3	3.9	1.3	0.0	0.0
70°	1418.1	624.6	22.6	11.1	6.4	3.9	2.1	1.7	0.4	0.0	0.0
72.5°	739.6	320.3	17.5	8.2	3.9	2.6	1.3	0.4	0.0	0.0	0.0
75°	261.6	109.0	12.9	5.1	2.6	1.3	0.4	0.0	0.0	0.0	0.0
77.5°	79.1	40.6	8.2	3.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0
80°	27.8	15.0	4.7	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	7.2	3.0	2.1	1.3	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.7	4.7	2.6	2.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	3.4	2.6	2.1	1.7	0.8	0.4	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)