

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: P646757

Luminaire Tested: **GALN-SA1C-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P646757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5574.2 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

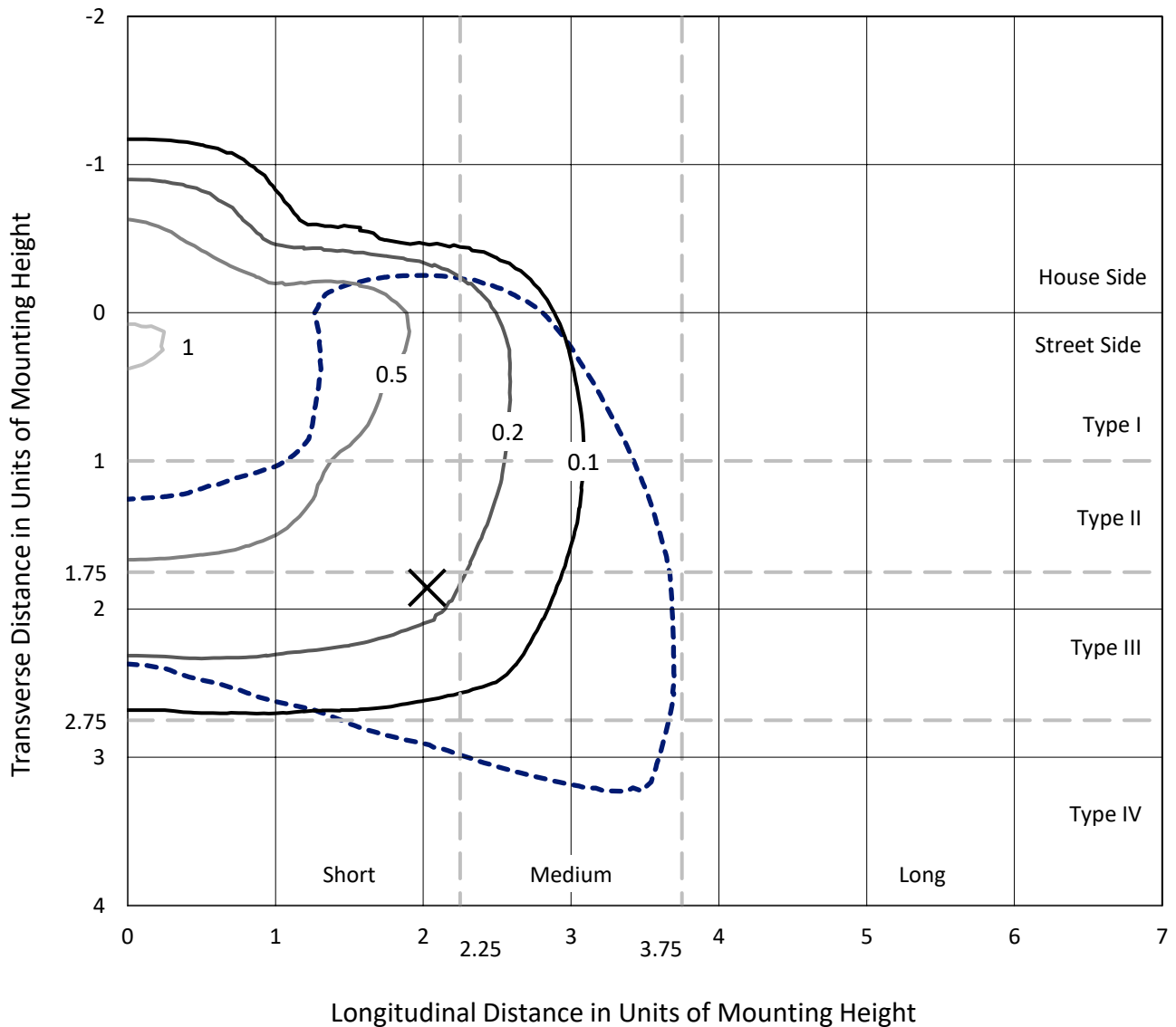
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

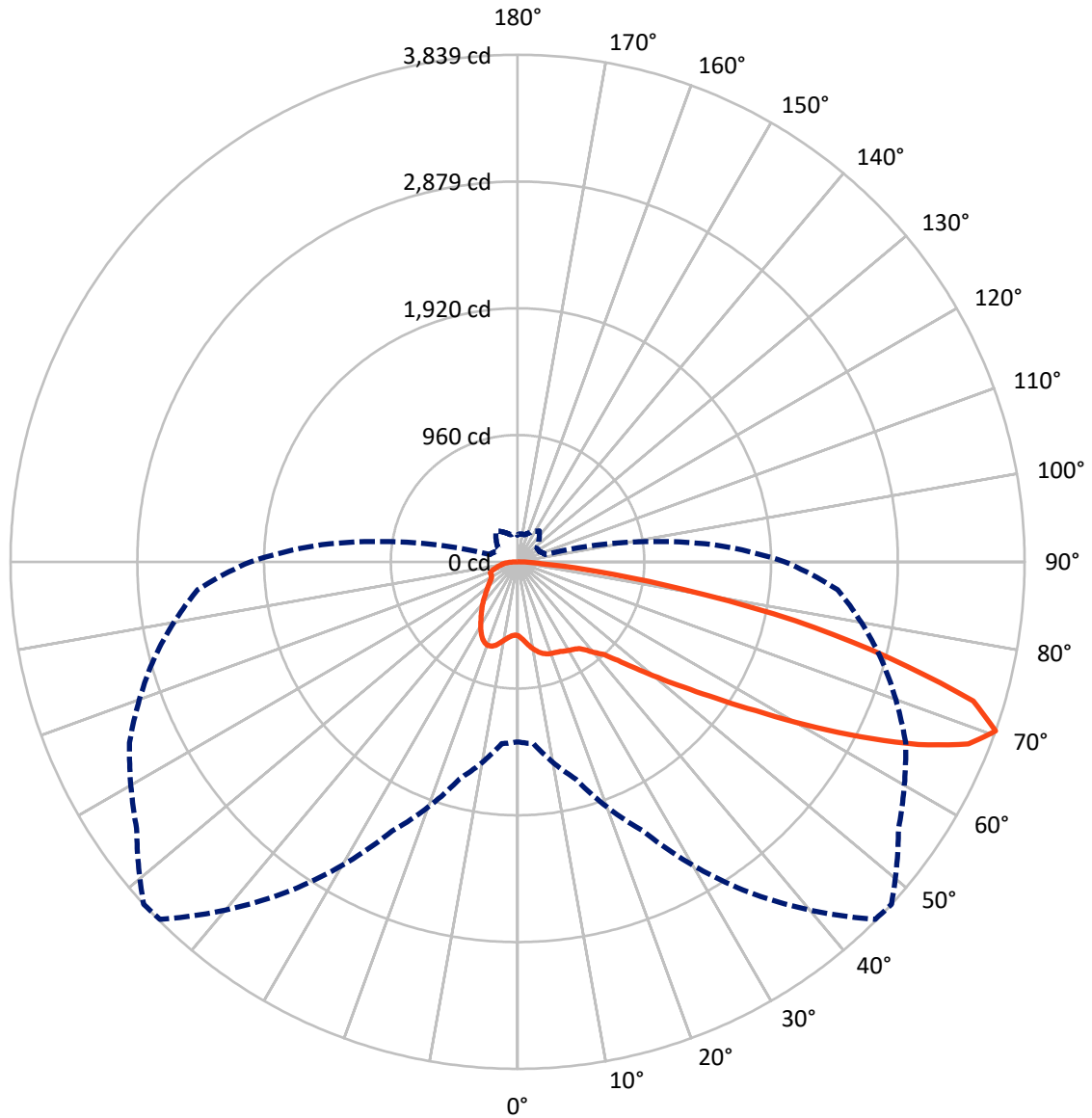
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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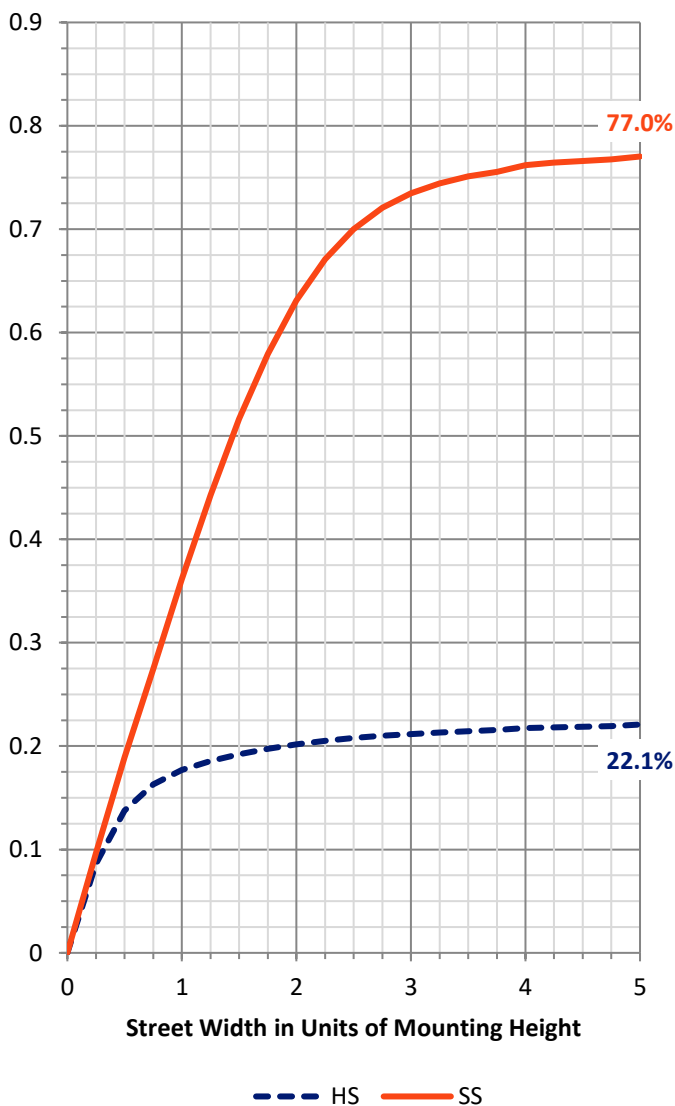
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.1	0.0	1262.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4312.1	0.0	4312.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	5574.2	0.0	5574.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.0
10°-20°	192.8	3.5
20°-30°	320.7	5.8
30°-40°	454.5	8.2
40°-50°	671.0	12.0
50°-60°	1162.1	20.8
60°-70°	1641.5	29.4
70°-80°	943.6	16.9
80°-90°	130.2	2.3
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°	5574.2	100.0
0°-180°	5574.2	100.0

Coefficient of Utilization

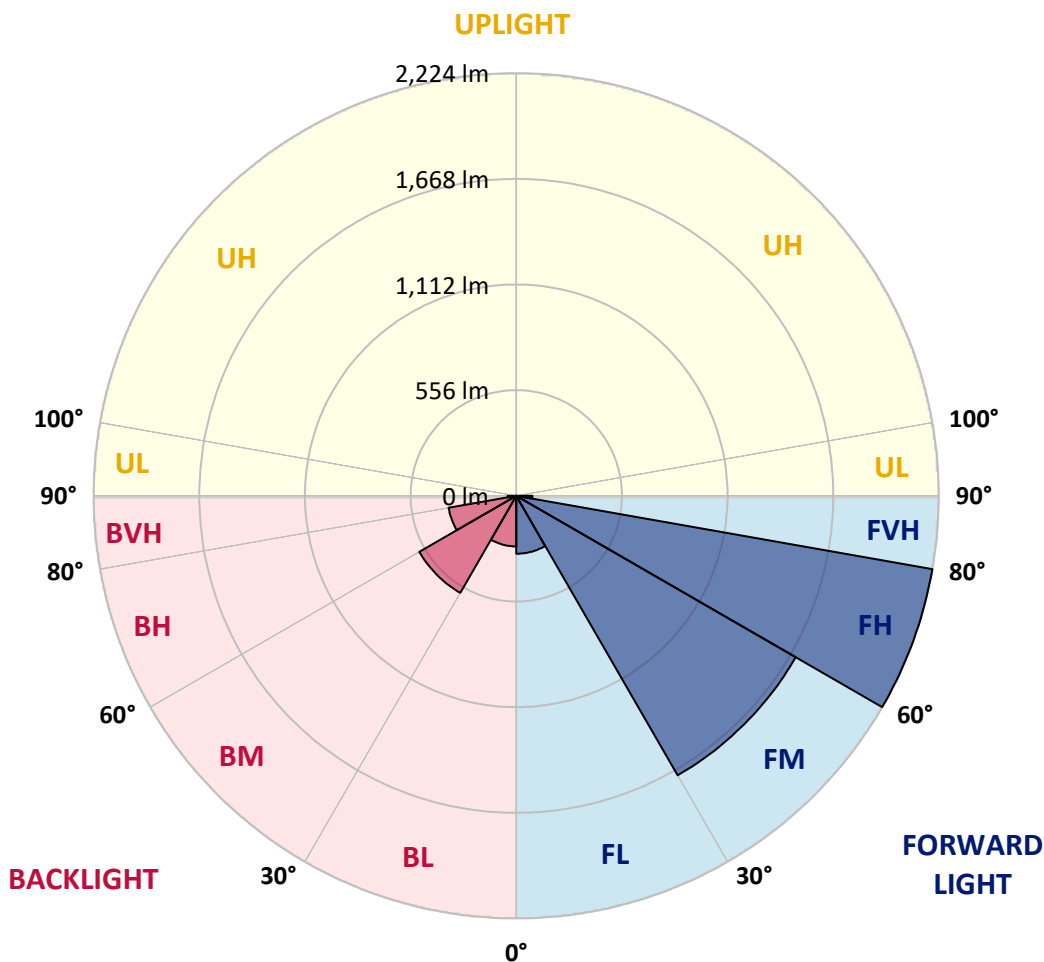


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.8	5.5			
FM (30°-60°)	1698.3	30.5			
FH (60°-80°)	2223.9	39.9			G2/5000
FVH (80°-90°)	85.1	1.5			G1/100
BL (0°-30°)	266.4	4.8	B1/500		
BM (30°-60°)	589.3	10.6	B1/1000		
BH (60°-80°)	361.3	6.5	B1/500		G1/500
BVH (80°-90°)	45.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6
2.5°	595.7	593.6	593.3	588.8	586.4	581.9	580.1	576.0	570.9	565.9	561.1
5°	642.5	642.5	640.4	634.2	624.3	614.2	609.7	601.7	587.3	575.7	565.9
7.5°	690.5	691.2	686.9	677.7	663.7	647.3	643.1	631.2	610.9	593.9	579.3
10°	732.0	732.0	726.3	713.8	696.2	678.3	674.1	660.7	638.1	616.8	597.7
12.5°	763.6	763.6	756.1	739.8	720.7	704.5	699.8	686.9	665.8	642.2	618.0
15°	784.2	782.7	774.3	755.8	737.4	723.3	720.0	709.3	689.9	666.1	638.9
17.5°	785.1	784.5	776.4	760.9	744.8	735.2	733.2	726.0	710.8	688.2	659.5
20°	767.8	769.0	763.6	752.5	744.8	740.6	739.8	737.4	726.6	705.4	676.8
22.5°	749.3	751.4	746.3	740.3	739.8	743.9	744.6	745.1	738.3	717.7	691.4
25°	744.8	746.3	741.3	735.9	739.2	750.2	752.5	755.0	749.6	732.3	708.7
27.5°	767.5	766.3	756.5	744.8	746.9	761.8	765.1	767.8	765.1	750.2	730.2
30°	831.6	827.7	808.1	774.1	763.3	773.8	777.0	784.5	784.5	773.4	753.5
32.5°	939.0	931.5	895.4	828.6	791.4	785.1	788.4	800.6	806.9	798.2	776.4
35°	1069.3	1061.6	1010.0	920.2	842.7	807.7	806.9	820.6	837.3	817.9	789.6
37.5°	1200.3	1192.3	1130.2	1029.4	917.5	855.5	850.1	854.9	862.0	826.5	807.7
40°	1331.3	1321.7	1267.4	1151.4	1009.1	918.7	904.7	883.2	880.2	854.9	843.0
42.5°	1461.0	1452.3	1424.9	1288.3	1118.8	980.5	959.0	922.0	933.3	918.1	907.7
45°	1591.9	1592.5	1563.3	1441.9	1251.3	1094.4	1065.5	1007.6	1034.4	1028.8	1034.7
47.5°	1708.0	1706.5	1696.1	1591.1	1415.7	1241.1	1203.9	1136.8	1182.7	1203.5	1249.2
50°	1820.4	1819.5	1820.2	1760.2	1606.6	1415.7	1374.5	1304.1	1407.6	1480.1	1561.9
52.5°	1981.5	1986.5	1950.5	1934.6	1838.6	1621.7	1576.4	1503.7	1673.3	1787.6	1947.2
55°	2143.1	2139.0	2110.7	2127.1	2081.4	1865.7	1818.4	1760.5	1969.2	2094.2	2334.0
57.5°	2238.3	2239.8	2268.7	2349.0	2381.2	2170.0	2127.1	2082.3	2301.9	2390.4	2678.3
60°	2323.9	2330.8	2414.0	2565.5	2653.0	2543.7	2505.6	2462.1	2607.0	2642.2	2977.2
62.5°	2350.8	2371.9	2517.2	2743.9	2917.8	2965.5	2918.1	2822.1	2897.5	2883.8	3179.7
65°	2216.8	2245.8	2506.1	2810.7	3154.3	3365.8	3335.7	3157.4	3145.1	3062.5	3212.8
67.5°	1864.2	1893.2	2227.6	2670.5	3252.2	3712.4	3682.3	3401.9	3295.4	3079.1	2962.2
70°	1364.1	1382.2	1702.0	2248.5	3055.7	3828.8	3839.2	3521.2	3241.8	2852.2	2432.2
72.5°	786.0	826.2	1050.2	1581.8	2496.4	3534.7	3607.1	3273.1	2902.3	2379.4	1700.5
75°	337.9	338.9	485.6	872.5	1690.7	2841.1	2911.3	2713.2	2279.2	1645.3	908.0
77.5°	160.7	163.7	213.6	389.5	930.7	1963.0	2152.2	1916.8	1457.7	790.4	343.0
80°	104.4	106.5	130.7	193.3	456.4	1138.2	1270.1	1105.8	643.1	282.5	148.0
82.5°	63.3	63.8	87.4	118.2	251.2	515.4	607.6	479.9	274.4	169.1	87.1
85°	38.4	38.8	53.1	73.1	152.5	178.1	182.8	181.3	161.1	110.6	46.5
87.5°	18.5	19.1	27.4	34.6	60.0	55.2	52.2	60.5	76.0	59.7	20.0
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°	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6
2.5°	559.0	558.1	556.0	555.1	554.5	554.8	554.5	554.5	554.8	554.8	554.8
5°	561.6	560.2	556.9	556.9	558.7	562.9	566.7	569.7	573.0	572.7	572.7
7.5°	573.3	570.7	566.7	567.9	572.4	579.0	585.8	592.4	598.9	599.5	599.2
10°	590.3	587.6	583.4	584.9	592.1	602.0	610.6	620.1	627.3	629.4	628.7
12.5°	609.7	604.3	600.7	604.9	616.2	629.4	637.8	644.9	650.0	652.9	651.8
15°	629.4	624.3	620.1	628.7	642.5	654.7	658.9	660.1	661.0	664.0	663.4
17.5°	648.5	641.6	640.1	651.5	664.6	669.9	667.6	662.5	658.6	661.0	660.7
20°	665.5	660.1	659.5	670.9	675.9	670.9	660.7	651.8	644.9	645.5	645.2
22.5°	681.6	677.4	678.0	682.8	674.7	657.4	640.7	628.5	621.0	622.5	623.4
25°	699.5	695.3	696.8	689.0	662.5	632.4	608.2	597.7	594.8	597.7	599.9
27.5°	722.7	720.0	719.2	689.4	640.7	595.4	567.9	564.1	566.7	573.3	576.6
30°	747.8	747.8	743.0	684.3	610.9	550.9	527.0	527.7	536.9	546.1	549.4
32.5°	772.0	777.0	762.1	670.6	572.4	507.7	489.5	490.1	498.1	509.5	512.5
35°	791.9	806.6	778.5	645.5	527.0	471.3	457.6	449.5	449.8	458.4	460.9
37.5°	819.4	846.5	788.1	608.2	478.7	440.3	424.8	410.8	401.5	397.9	397.9
40°	867.1	907.1	790.4	553.0	433.1	410.8	388.7	371.9	354.1	337.9	335.0
42.5°	948.0	998.3	785.7	489.5	392.0	378.2	356.7	336.1	311.4	288.8	287.0
45°	1091.1	1117.1	772.8	423.5	355.2	346.9	326.0	303.6	277.4	257.1	255.6
47.5°	1320.5	1283.8	755.8	365.1	321.8	319.5	303.3	277.4	251.2	237.2	235.7
50°	1655.5	1546.3	753.5	322.8	295.0	296.2	283.1	259.2	236.2	224.6	222.8
52.5°	2058.7	1863.4	769.3	292.9	271.5	275.9	269.4	247.3	227.0	217.1	215.3
55°	2450.1	2148.6	778.9	269.7	249.4	257.7	258.6	240.1	221.6	211.8	210.6
57.5°	2767.7	2363.3	736.5	248.4	230.3	243.1	249.7	235.9	218.9	211.5	210.3
60°	2988.8	2464.7	616.0	229.7	216.3	231.5	246.4	236.2	225.5	226.4	227.0
62.5°	3059.2	2419.7	462.0	215.6	206.7	227.6	251.7	248.4	237.4	244.3	245.5
65°	2942.6	2233.6	335.0	204.6	198.3	230.3	267.9	257.5	233.3	238.3	238.3
67.5°	2552.1	1924.2	260.7	194.5	188.8	235.4	284.0	256.5	223.4	229.4	224.0
70°	2024.4	1488.4	217.1	183.1	178.7	227.9	285.5	247.3	211.8	213.0	202.8
72.5°	1343.5	978.7	186.7	172.4	163.2	204.9	273.3	235.4	200.4	193.6	183.5
75°	658.3	488.0	162.9	158.9	142.9	178.4	256.5	224.0	188.2	177.5	171.8
77.5°	255.0	207.6	139.0	142.0	124.4	157.2	234.4	207.9	172.1	157.5	153.0
80°	123.8	117.8	113.9	118.4	102.3	133.9	214.2	193.9	157.2	141.1	134.5
82.5°	77.0	72.8	87.4	92.2	78.8	122.3	203.1	182.0	138.4	116.9	111.6
85°	39.1	41.7	58.5	63.0	56.4	97.2	167.3	136.6	99.9	82.9	83.5
87.5°	14.9	20.0	30.7	33.1	30.1	51.3	92.2	79.6	64.1	43.5	40.2
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)