

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: P647252

Luminaire Tested: **GALN-SA1D-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647252  
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-SA1D-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6133.2 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

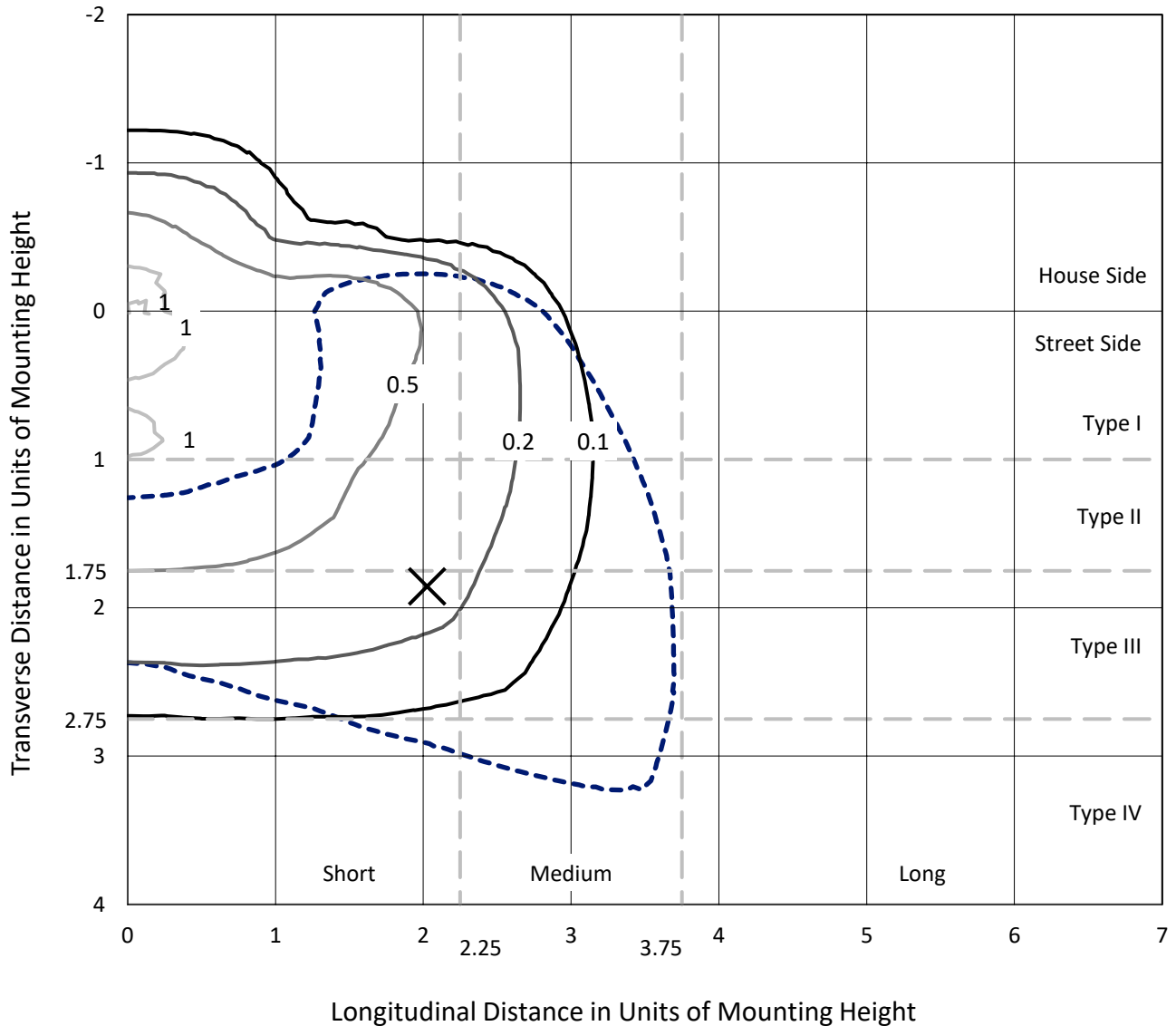
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647252  
 CATALOG NUMBER: GALN-SA1D-835-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

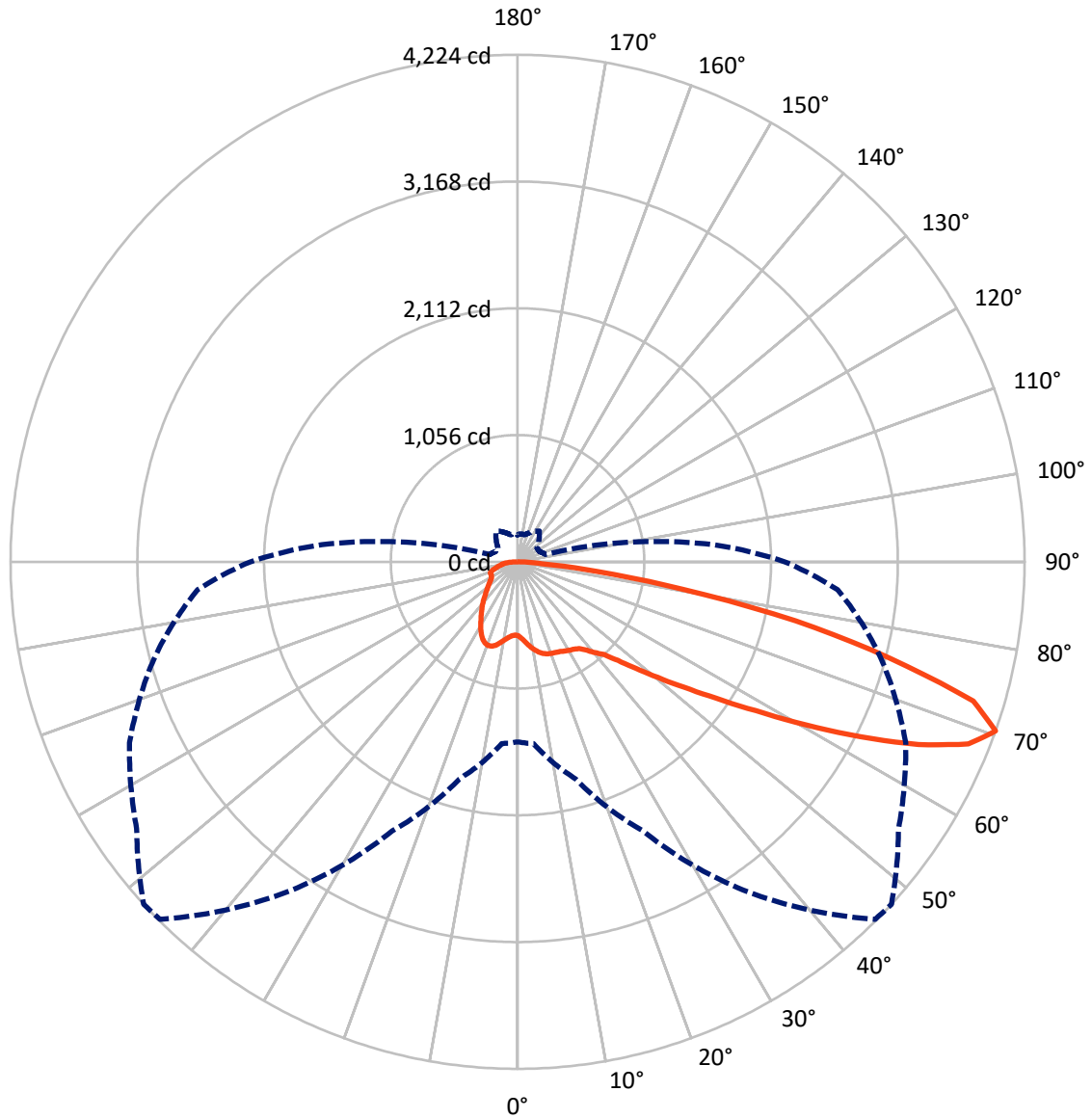
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P647252  
CATALOG NUMBER: GALN-SA1D-835-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P647252  
 CATALOG NUMBER: GALN-SA1D-835-U-T4W

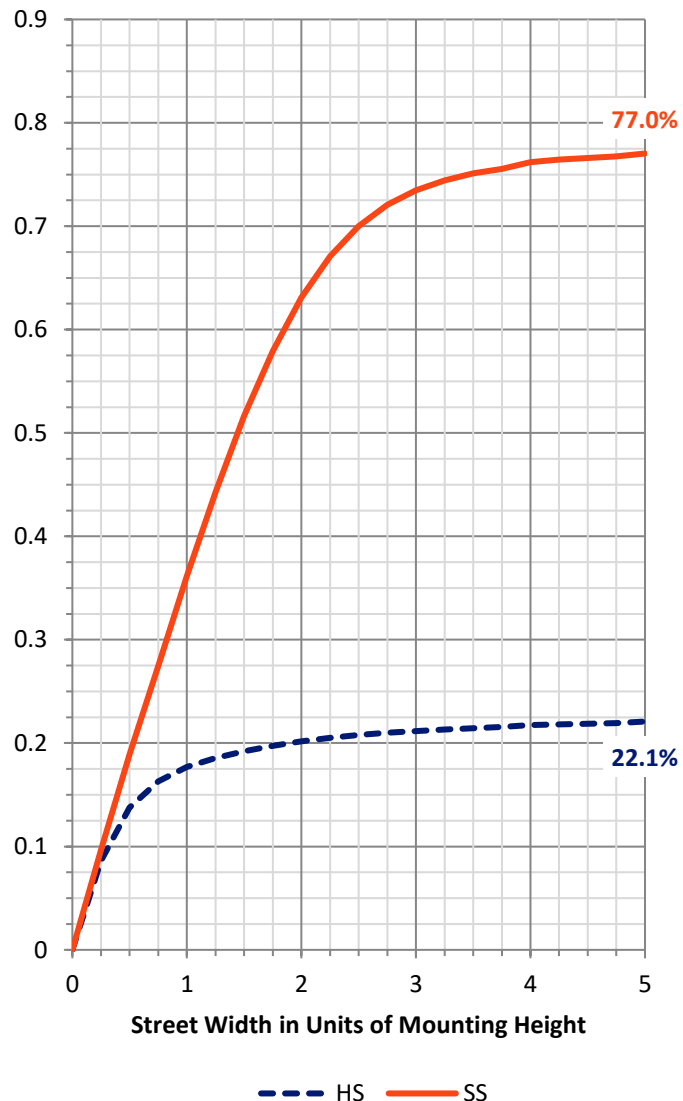
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1388.7	0.0	1388.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4744.6	0.0	4744.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	6133.2	0.0	6133.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	1.0
10°-20°	212.2	3.5
20°-30°	352.8	5.8
30°-40°	500.1	8.2
40°-50°	738.2	12.0
50°-60°	1278.7	20.8
60°-70°	1806.2	29.4
70°-80°	1038.3	16.9
80°-90°	143.3	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°	6133.2	100.0
0°-180°	6133.2	100.0

**Coefficient of Utilization**



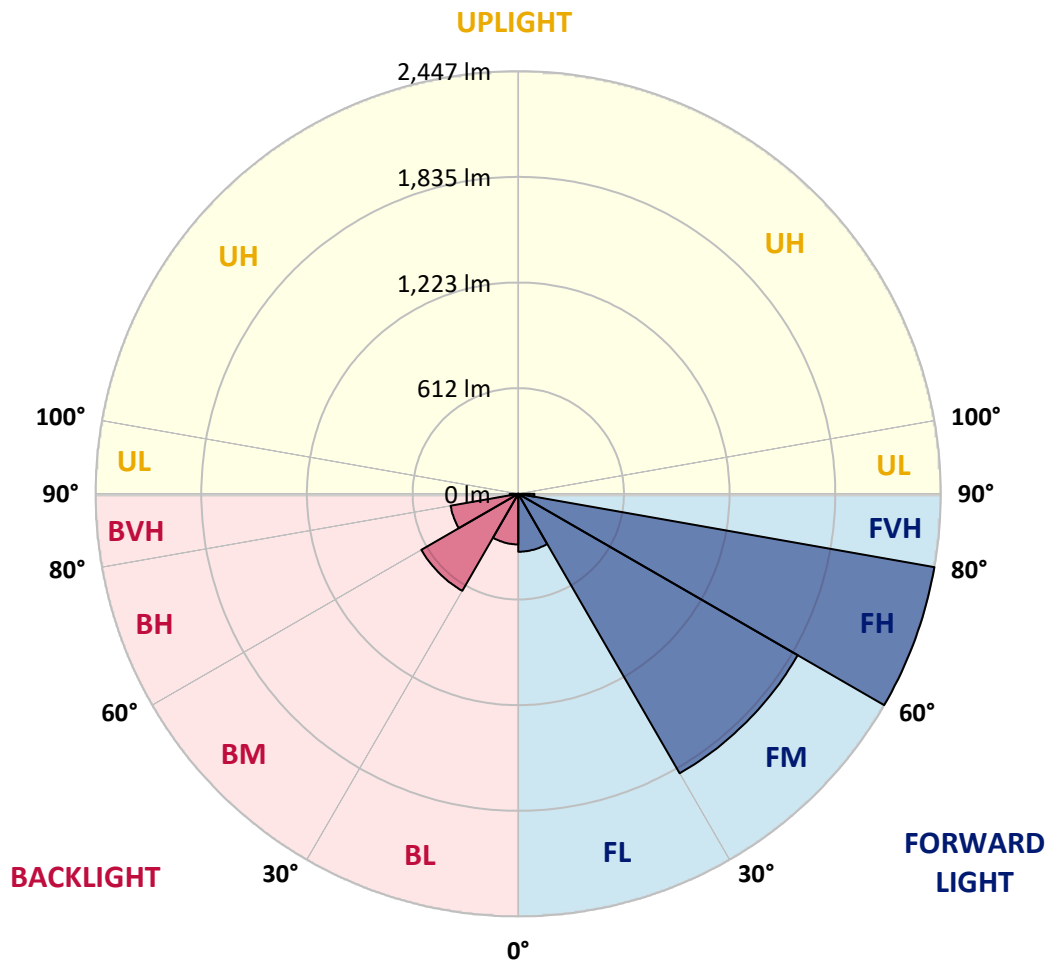
REPORT NUMBER: P647252  
 CATALOG NUMBER: GALN-SA1D-835-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.4	5.5			
FM (30°-60°)	1868.7	30.5			
FH (60°-80°)	2446.9	39.9			G2/5000
FVH (80°-90°)	93.6	1.5			G1/100
BL (0°-30°)	293.1	4.8	B1/500		
BM (30°-60°)	648.4	10.6	B1/1000		
BH (60°-80°)	397.6	6.5	B1/500		G1/500
BVH (80°-90°)	49.7	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





REPORT NUMBER: P647252  
 CATALOG NUMBER: GALN-SA1D-835-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7
2.5°	655.4	653.1	652.8	647.9	645.3	640.3	638.4	633.8	628.2	622.6	617.3
5°	707.0	707.0	704.6	697.7	686.9	675.7	670.9	661.9	646.2	633.4	622.6
7.5°	759.7	760.4	755.8	745.7	730.2	712.2	707.6	694.4	672.1	653.4	637.4
10°	805.4	805.4	799.1	785.3	766.0	746.4	741.7	726.9	702.0	678.7	657.7
12.5°	840.2	840.2	832.0	813.9	792.9	775.2	769.9	755.8	732.6	706.6	680.0
15°	862.9	861.2	852.0	831.6	811.3	795.9	792.2	780.5	759.1	732.9	703.0
17.5°	863.8	863.2	854.3	837.3	819.5	809.0	806.7	798.8	782.1	757.2	725.7
20°	844.8	846.1	840.2	828.0	819.5	814.9	813.9	811.3	799.5	776.2	744.7
22.5°	824.4	826.8	821.1	814.6	813.9	818.5	819.2	819.9	812.3	789.7	760.8
25°	819.5	821.1	815.6	809.7	813.3	825.4	828.0	830.7	824.7	805.7	779.8
27.5°	844.5	843.1	832.3	819.5	821.8	838.2	841.8	844.8	841.8	825.4	803.4
30°	915.0	910.8	889.1	851.7	839.8	851.4	855.0	863.2	863.2	851.0	829.0
32.5°	1033.2	1024.9	985.2	911.7	870.7	863.8	867.4	880.9	887.8	878.3	854.3
35°	1176.6	1168.1	1111.3	1012.5	927.2	888.8	887.8	902.9	921.3	899.9	868.7
37.5°	1320.7	1311.8	1243.6	1132.6	1009.5	941.2	935.4	940.6	948.5	909.5	888.8
40°	1464.8	1454.3	1394.5	1266.8	1110.3	1010.9	995.4	971.8	968.5	940.6	927.5
42.5°	1607.5	1598.0	1567.8	1417.5	1231.1	1078.8	1055.2	1014.5	1026.9	1010.2	998.7
45°	1751.6	1752.3	1720.1	1586.5	1376.8	1204.2	1172.3	1108.6	1138.2	1132.0	1138.6
47.5°	1879.3	1877.6	1866.1	1750.6	1557.6	1365.6	1324.6	1250.8	1301.3	1324.3	1374.5
50°	2003.0	2002.1	2002.7	1936.7	1767.7	1557.6	1512.4	1434.9	1548.8	1628.6	1718.5
52.5°	2180.3	2185.8	2146.1	2128.7	2023.0	1784.5	1734.5	1654.5	1841.2	1966.9	2142.5
55°	2358.1	2353.5	2322.4	2340.4	2290.2	2052.9	2000.7	1937.1	2166.8	2304.3	2568.2
57.5°	2462.8	2464.5	2496.3	2584.6	2620.0	2387.7	2340.4	2291.1	2532.7	2630.2	2946.9
60°	2557.0	2564.6	2656.1	2822.9	2919.0	2798.9	2756.9	2708.9	2868.4	2907.2	3275.8
62.5°	2586.6	2609.8	2769.7	3019.1	3210.5	3263.0	3210.8	3105.1	3188.1	3173.0	3498.6
65°	2439.2	2471.0	2757.6	3092.6	3470.7	3703.4	3670.2	3474.0	3460.5	3369.6	3535.0
67.5°	2051.2	2083.1	2451.0	2938.4	3578.4	4084.8	4051.6	3743.1	3625.9	3388.0	3259.4
70°	1500.9	1520.9	1872.7	2474.0	3362.0	4212.8	4224.3	3874.4	3566.9	3138.3	2676.1
72.5°	864.8	909.1	1155.6	1740.5	2746.7	3889.2	3968.9	3601.3	3193.4	2618.0	1871.1
75°	371.8	372.9	534.3	960.0	1860.3	3126.1	3203.3	2985.3	2507.8	1810.4	999.0
77.5°	176.9	180.2	235.0	428.6	1024.0	2159.9	2367.9	2109.0	1603.9	869.8	377.4
80°	114.9	117.1	143.8	212.7	502.1	1252.4	1397.5	1216.6	707.6	310.8	162.8
82.5°	69.6	70.2	96.2	130.0	276.3	567.1	668.5	528.1	301.9	186.1	95.8
85°	42.4	42.7	58.4	80.4	167.7	195.9	201.2	199.5	177.2	121.8	51.2
87.5°	20.4	21.0	30.2	38.1	66.0	60.7	57.5	66.6	83.7	65.6	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647252  
 CATALOG NUMBER: GALN-SA1D-835-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7
2.5°	615.0	614.0	611.8	610.8	610.1	610.4	610.1	610.1	610.4	610.4	610.4
5°	618.0	616.4	612.8	612.8	614.7	619.3	623.6	626.9	630.5	630.2	630.2
7.5°	630.8	627.8	623.6	624.9	629.8	637.0	644.6	651.8	659.1	659.7	659.4
10°	649.5	646.5	642.0	643.6	651.5	662.3	671.8	682.3	690.2	692.5	691.9
12.5°	670.9	664.9	661.0	665.6	678.1	692.5	701.7	709.6	715.1	718.4	717.1
15°	692.5	686.9	682.3	691.9	707.0	720.4	725.0	726.3	727.3	730.5	729.9
17.5°	713.5	706.0	704.3	716.8	731.2	737.1	734.5	728.9	724.7	727.3	726.9
20°	732.2	726.3	725.7	738.1	743.7	738.1	726.9	717.1	709.6	710.3	709.9
22.5°	750.0	745.3	746.0	751.3	742.4	723.3	704.9	691.5	683.3	685.0	685.9
25°	769.6	765.1	766.7	758.2	728.9	695.8	669.2	657.7	654.4	657.7	660.0
27.5°	795.2	792.2	791.3	758.5	704.9	655.1	624.9	620.6	623.6	630.8	634.4
30°	822.8	822.8	817.5	752.9	672.1	606.2	580.0	580.6	590.8	601.0	604.6
32.5°	849.4	855.0	838.5	737.8	629.8	558.6	538.5	539.3	548.1	560.5	563.8
35°	871.4	887.5	856.6	710.3	580.0	518.6	503.5	494.6	494.9	504.4	507.1
37.5°	901.5	931.5	867.1	669.2	526.7	484.4	467.4	451.9	441.8	437.9	437.9
40°	954.1	998.1	869.8	608.5	476.5	451.9	427.7	409.3	389.5	371.8	368.6
42.5°	1043.0	1098.5	864.5	538.5	431.3	416.2	392.5	369.9	342.6	317.7	315.7
45°	1200.6	1229.1	850.3	466.0	390.9	381.7	358.7	334.1	305.2	282.9	281.3
47.5°	1452.9	1412.6	831.6	401.7	354.2	351.5	333.8	305.2	276.3	260.9	259.3
50°	1821.5	1701.4	829.0	355.1	324.6	325.9	311.5	285.2	260.0	247.1	245.2
52.5°	2265.2	2050.3	846.4	322.3	298.6	303.6	296.4	272.1	249.8	238.9	236.9
55°	2695.9	2364.0	856.9	296.7	274.4	283.6	284.5	264.2	243.8	233.0	231.7
57.5°	3045.4	2600.3	810.3	273.4	253.4	267.5	274.7	259.6	240.9	232.7	231.4
60°	3288.6	2711.9	677.8	252.8	238.0	254.7	271.1	260.0	248.1	249.1	249.8
62.5°	3366.0	2662.4	508.4	237.3	227.5	250.4	277.0	273.4	261.2	268.8	270.1
65°	3237.7	2457.5	368.6	225.1	218.2	253.4	294.7	283.2	256.7	262.2	262.2
67.5°	2808.1	2117.2	286.8	214.0	207.7	258.9	312.4	282.3	245.8	252.4	246.5
70°	2227.5	1637.7	238.9	201.5	196.6	250.7	314.1	272.1	233.0	234.4	223.2
72.5°	1478.2	1076.9	205.5	189.7	179.5	225.5	300.6	258.9	220.6	213.0	201.9
75°	724.4	536.9	179.2	174.9	157.2	196.3	282.3	246.5	207.1	195.3	189.0
77.5°	280.6	228.4	152.9	156.2	136.9	173.0	258.0	228.8	189.4	173.3	168.3
80°	136.2	129.7	125.4	130.3	112.6	147.4	235.7	213.4	173.0	155.3	148.0
82.5°	84.6	80.1	96.2	101.4	86.7	134.6	223.5	200.2	152.3	128.6	122.8
85°	43.0	46.0	64.4	69.2	62.0	107.0	184.1	150.3	109.9	91.2	91.9
87.5°	16.4	22.0	33.8	36.4	33.1	56.5	101.4	87.6	70.5	47.9	44.3
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)