

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: P528473

Luminaire Tested: **GALN-SA3C-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12380 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

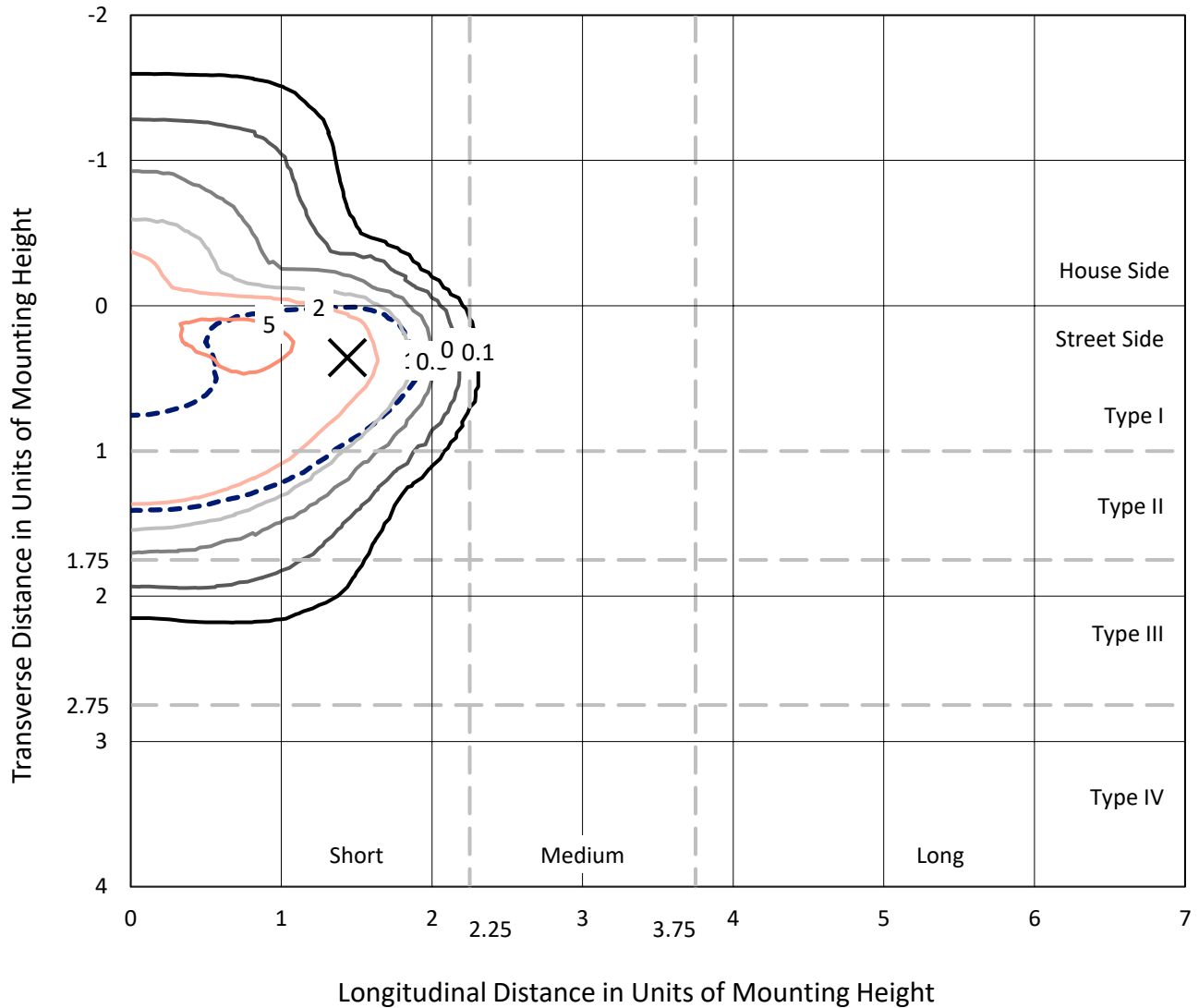
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

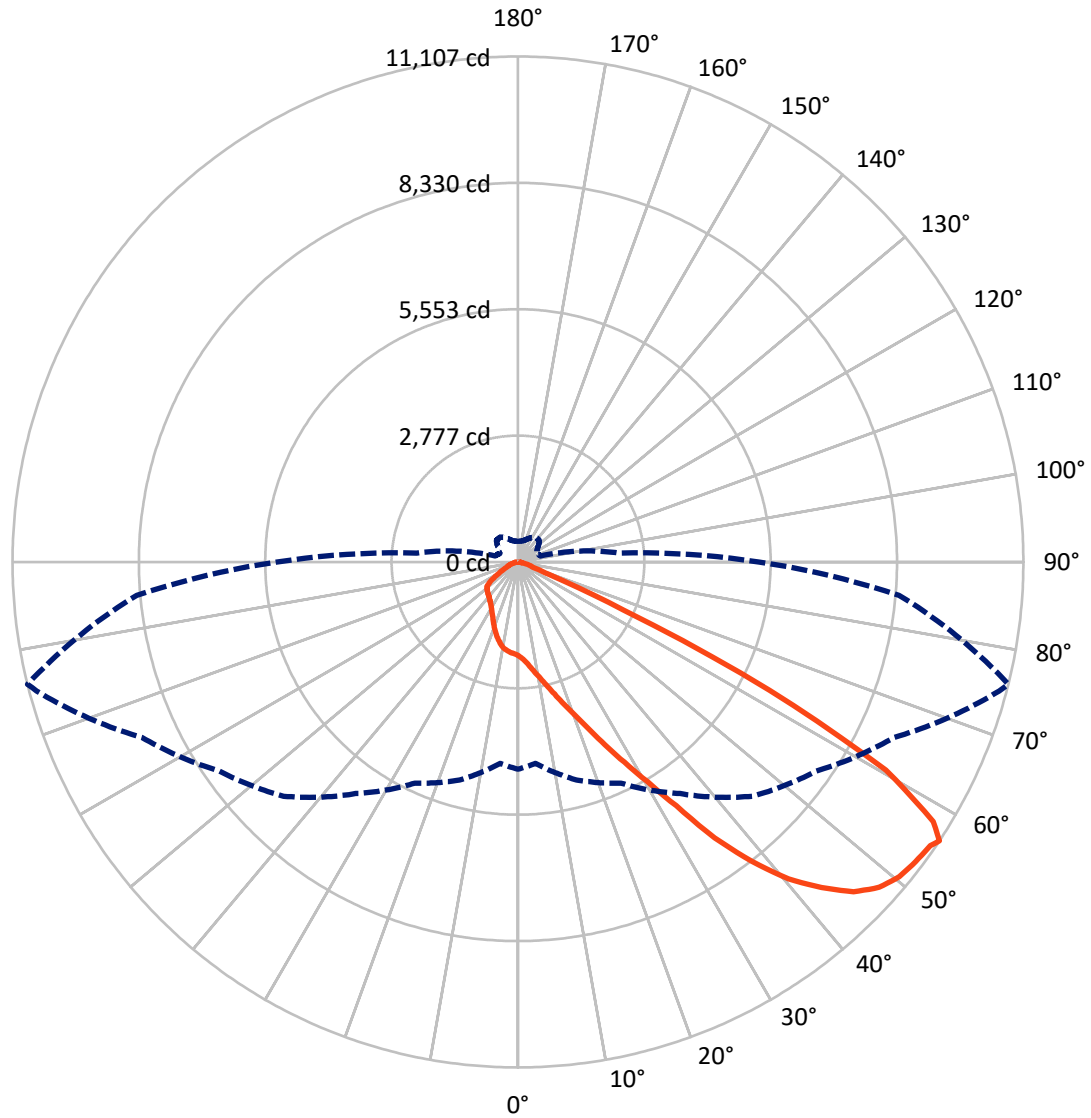
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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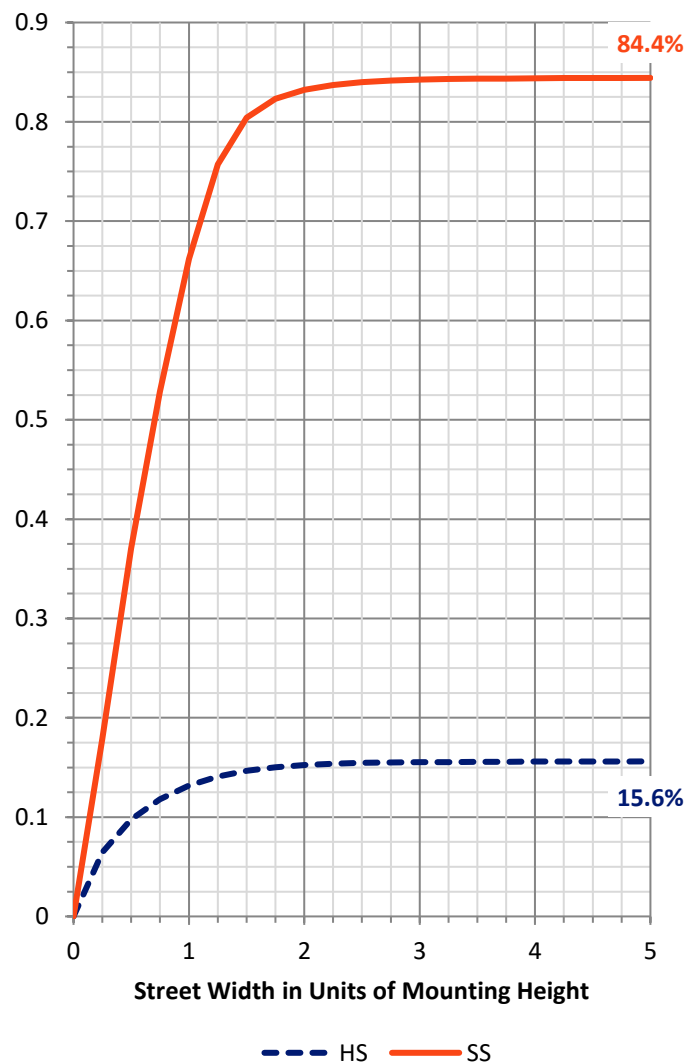
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1944.8	0.0	1944.8
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	10435.2	0.0	10435.2
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	12380.0	0.0	12380.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.6	1.7
10°-20°	666.9	5.4
20°-30°	1209.2	9.8
30°-40°	2085.4	16.8
40°-50°	3387.8	27.4
50°-60°	3570.9	28.8
60°-70°	1091.1	8.8
70°-80°	139.9	1.1
80°-90°	21.3	0.2
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°	12380.0	100.0
0°-180°	12380.0	100.0

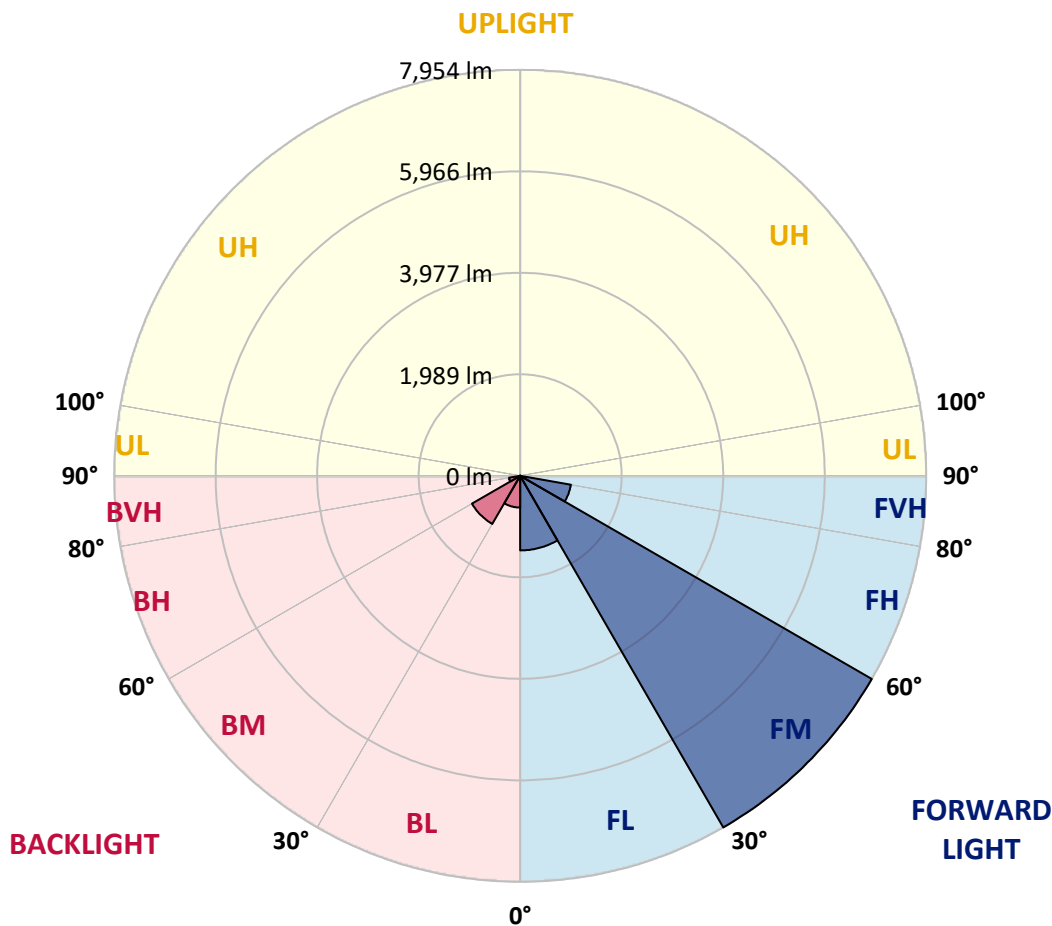


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.6	11.8			
FM (30°-60°)	7954.1	64.2			
FH (60°-80°)	1009.0	8.2			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	622.2	5.0	B2/1000		
BM (30°-60°)	1090.0	8.8	B2/2500		
BH (60°-80°)	221.9	1.8	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2373.3	2318.5	2320.8	2316.3	2309.4	2284.3	2209.0	2197.6	2147.4	2133.7	2088.1
5°	2658.6	2610.6	2638.0	2596.9	2558.2	2535.3	2412.1	2355.1	2275.2	2245.5	2181.6
7.5°	2836.6	2813.7	2804.6	2806.9	2770.4	2713.3	2658.6	2533.0	2425.8	2403.0	2268.3
10°	2923.3	2909.6	2923.3	2916.4	2932.4	2939.2	2843.4	2768.1	2610.6	2571.8	2361.9
12.5°	2943.8	2971.2	2982.6	3012.3	3051.1	3117.2	3110.4	3007.7	2797.8	2772.7	2505.7
15°	2994.0	3016.8	3005.4	3053.4	3126.4	3238.2	3297.5	3281.6	3055.6	3010.0	2672.3
17.5°	3039.7	2998.6	3037.4	3133.2	3206.2	3377.4	3521.2	3587.3	3336.3	3283.8	2825.1
20°	3101.3	3089.9	3083.0	3130.9	3261.0	3489.2	3774.5	3895.4	3651.2	3596.5	3044.2
22.5°	3288.4	3290.7	3286.1	3215.4	3308.9	3566.8	3995.8	4294.8	4027.8	3982.1	3293.0
25°	3534.9	3505.2	3482.4	3425.3	3413.9	3637.5	4219.5	4783.1	4479.6	4447.7	3562.2
27.5°	3795.0	3795.0	3726.5	3674.1	3601.0	3813.3	4424.8	5257.8	5025.0	4981.7	3797.3
30°	4078.0	4094.0	4084.8	3973.0	3927.4	4005.0	4634.8	5864.8	5650.3	5595.5	4185.2
32.5°	4495.6	4461.4	4500.2	4406.6	4272.0	4340.4	4965.7	6407.9	6462.7	6385.1	4694.1
35°	5047.8	5027.3	5002.2	4849.3	4689.6	4744.3	5433.5	7076.6	7482.8	7444.0	5207.6
37.5°	5543.0	5531.6	5511.1	5406.1	5221.3	5287.5	5965.2	7772.6	8477.7	8349.9	5933.3
40°	6063.3	6125.0	6058.8	5965.2	5796.3	5942.4	6590.5	8185.6	9315.2	9160.1	6487.8
42.5°	6768.5	6720.6	6750.2	6579.1	6487.8	6647.5	7218.0	8598.7	9965.6	9780.8	7076.6
45°	7519.3	7521.6	7441.7	7386.9	7149.6	7323.0	7603.7	8826.9	10483.6	10339.9	7521.6
47.5°	8000.8	7998.5	8085.2	8171.9	7927.8	7756.6	7866.1	9043.7	10750.6	10684.4	7683.6
50°	7925.5	7948.3	8060.1	8384.2	8512.0	8281.5	8112.6	8979.8	10871.6	10864.7	7822.8
52.5°	6894.0	6969.3	7156.4	7624.2	8267.8	8553.0	8370.5	9098.4	10930.9	10942.3	8030.5
55°	5248.7	5289.7	5645.7	6214.0	6925.9	7902.7	8267.8	9192.0	10976.5	10997.1	8281.5
56°	4552.6	4443.1	4956.6	5360.5	6211.7	7279.7	8007.6	9119.0	10949.2	11106.6	8407.0
57.5°	3436.7	3363.7	3779.0	4283.4	5102.6	6229.9	7199.8	8774.4	10764.3	10762.0	8226.7
60°	2090.3	2017.3	2336.8	2633.5	3092.1	3836.1	4865.3	6987.6	9100.7	9292.4	6661.2
62.5°	1243.7	1289.3	1604.3	1784.5	1932.9	2010.5	2517.1	4153.3	6072.5	6209.4	4132.7
65°	828.4	844.3	1081.7	1378.3	1444.5	1150.1	1024.6	1681.9	2633.5	2549.0	1704.7
67.5°	511.2	547.7	725.7	1036.0	1147.9	839.8	486.1	627.6	725.7	725.7	492.9
70°	310.4	328.6	483.8	705.1	787.3	540.8	353.7	353.7	349.2	342.3	294.4
72.5°	148.3	159.7	246.5	362.8	369.7	285.3	273.8	298.9	292.1	289.8	244.2
75°	63.9	68.5	86.7	114.1	130.1	120.9	166.6	214.5	221.4	214.5	175.7
77.5°	20.5	22.8	31.9	41.1	43.4	52.5	70.7	89.0	102.7	95.8	86.7
80°	2.3	4.6	9.1	20.5	31.9	41.1	52.5	59.3	66.2	66.2	61.6
82.5°	2.3	2.3	9.1	18.3	29.7	38.8	50.2	57.1	66.2	68.5	63.9
85°	0.0	2.3	6.8	16.0	25.1	25.1	22.8	22.8	16.0	16.0	16.0
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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: P528473

CATALOG NUMBER: GALN-SA3C-740-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2078.9	2074.4	2012.7	1974.0	1953.4	1912.3	1887.2	1869.0	1855.3	1839.3	1841.6
5°	2106.3	2090.3	1987.6	1916.9	1832.5	1786.8	1748.0	1716.1	1695.5	1691.0	1681.9
7.5°	2183.9	2099.5	1944.3	1816.5	1709.2	1663.6	1629.4	1608.8	1618.0	1597.4	1613.4
10°	2243.2	2117.7	1891.8	1707.0	1599.7	1565.5	1547.2	1563.2	1586.0	1576.9	1565.5
12.5°	2316.3	2136.0	1807.4	1602.0	1501.6	1476.5	1508.4	1538.1	1583.7	1602.0	1579.2
15°	2398.4	2156.5	1700.1	1481.0	1417.1	1437.7	1492.4	1544.9	1590.6	1613.4	1627.1
17.5°	2498.8	2149.7	1595.1	1385.2	1337.3	1396.6	1462.8	1510.7	1579.2	1613.4	1604.3
20°	2592.4	2126.8	1478.8	1289.3	1291.6	1346.4	1401.2	1478.8	1515.3	1560.9	1544.9
22.5°	2681.4	2085.8	1357.8	1223.2	1223.2	1307.6	1335.0	1385.2	1417.1	1440.0	1437.7
25°	2806.9	2008.2	1257.4	1159.3	1186.7	1241.4	1264.2	1280.2	1266.5	1284.8	1287.1
27.5°	2895.9	1928.3	1175.2	1102.2	1152.4	1193.5	1186.7	1177.5	1145.6	1120.5	1136.4
30°	2991.7	1834.7	1104.5	1063.4	1090.8	1127.3	1099.9	1072.6	1022.3	981.3	983.6
32.5°	3128.7	1791.4	1042.9	1017.8	1054.3	1058.9	1029.2	988.1	937.9	899.1	896.8
35°	3384.2	1764.0	990.4	988.1	995.0	997.2	967.6	917.4	896.8	864.9	876.3
37.5°	3639.8	1750.3	953.9	944.8	942.5	944.8	910.5	862.6	901.4	899.1	903.7
40°	3966.2	1811.9	901.4	890.0	892.3	892.3	848.9	835.2	903.7	910.5	912.8
42.5°	4297.1	1889.5	867.2	830.7	839.8	839.8	817.0	801.0	848.9	803.3	796.4
45°	4584.6	2003.6	830.7	771.3	794.1	805.6	798.7	771.3	741.7	664.1	664.1
47.5°	4678.2	2104.0	787.3	714.3	732.5	782.7	762.2	705.1	652.7	588.8	584.2
50°	4842.5	2213.6	753.1	648.1	686.9	748.5	728.0	670.9	611.6	565.9	568.2
52.5°	5011.3	2339.1	689.2	570.5	618.4	721.1	721.1	657.2	565.9	534.0	529.4
55°	5264.6	2334.5	575.1	467.8	552.3	680.0	691.5	588.8	506.6	481.5	481.5
56°	5301.1	2229.5	518.0	438.1	522.6	668.6	670.9	570.5	483.8	456.4	456.4
57.5°	5027.3	2012.7	454.1	401.6	486.1	648.1	650.4	554.5	465.5	426.7	422.2
60°	3868.0	1362.4	378.8	358.3	440.4	584.2	595.6	504.3	408.5	378.8	376.5
62.5°	2183.9	755.4	333.2	324.0	378.8	497.5	531.7	440.4	346.9	330.9	335.5
65°	997.2	415.3	280.7	262.4	305.8	383.4	429.0	362.8	285.3	267.0	267.0
67.5°	365.1	283.0	239.6	207.7	214.5	248.7	278.4	235.0	189.4	162.0	168.9
70°	260.2	237.3	209.9	180.3	166.6	162.0	159.7	132.4	93.6	73.0	77.6
72.5°	209.9	196.3	175.7	152.9	130.1	109.5	93.6	68.5	43.4	29.7	27.4
75°	150.6	143.8	127.8	109.5	91.3	77.6	63.9	43.4	22.8	11.4	11.4
77.5°	77.6	77.6	75.3	68.5	57.1	45.6	36.5	25.1	13.7	4.6	4.6
80°	59.3	63.9	66.2	59.3	52.5	41.1	29.7	18.3	9.1	2.3	2.3
82.5°	57.1	66.2	70.7	61.6	52.5	38.8	29.7	18.3	9.1	2.3	2.3
85°	13.7	13.7	20.5	22.8	29.7	31.9	25.1	16.0	6.8	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	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)