

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: P528246

Luminaire Tested: **GALN-SA3B-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14828 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

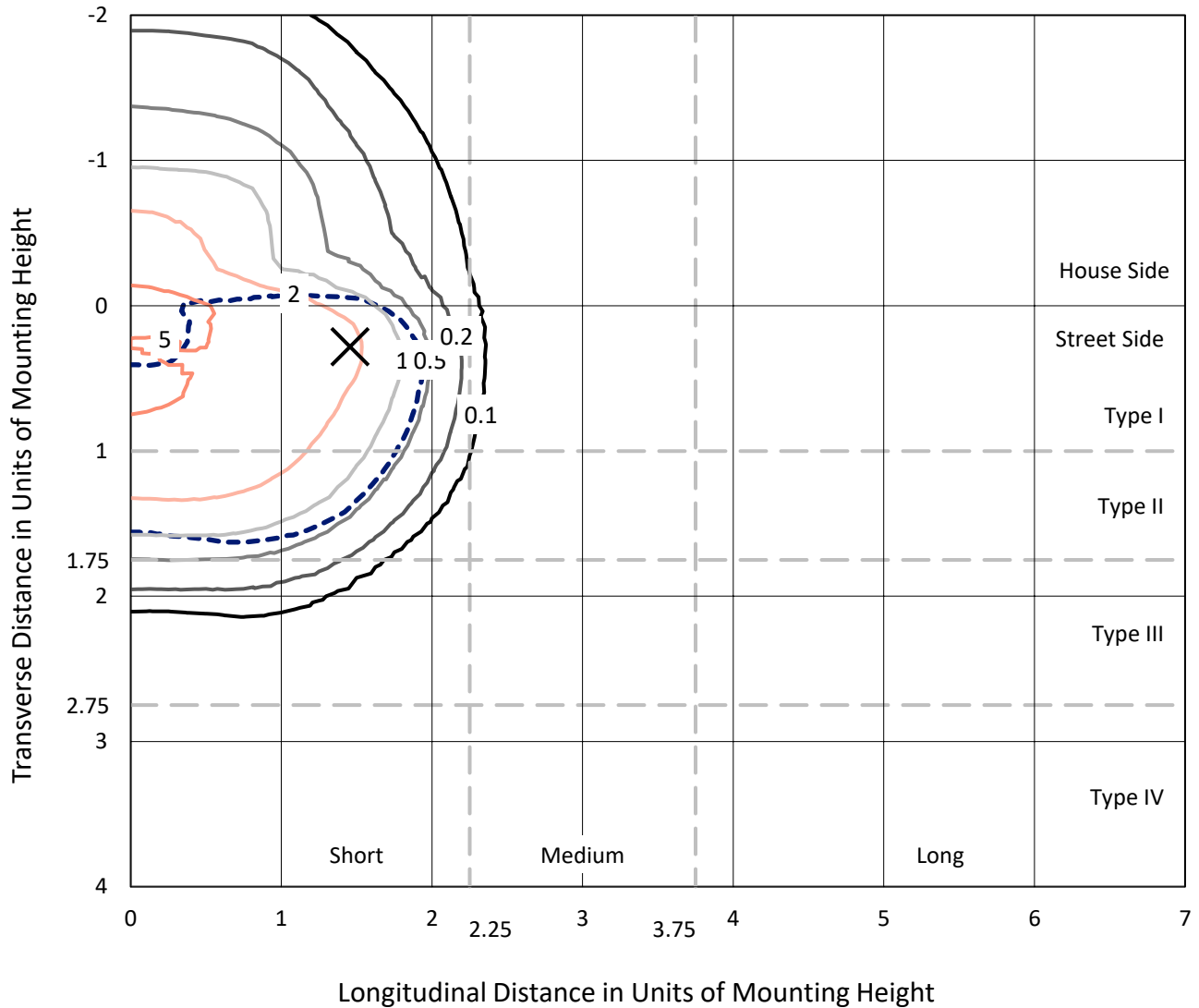
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

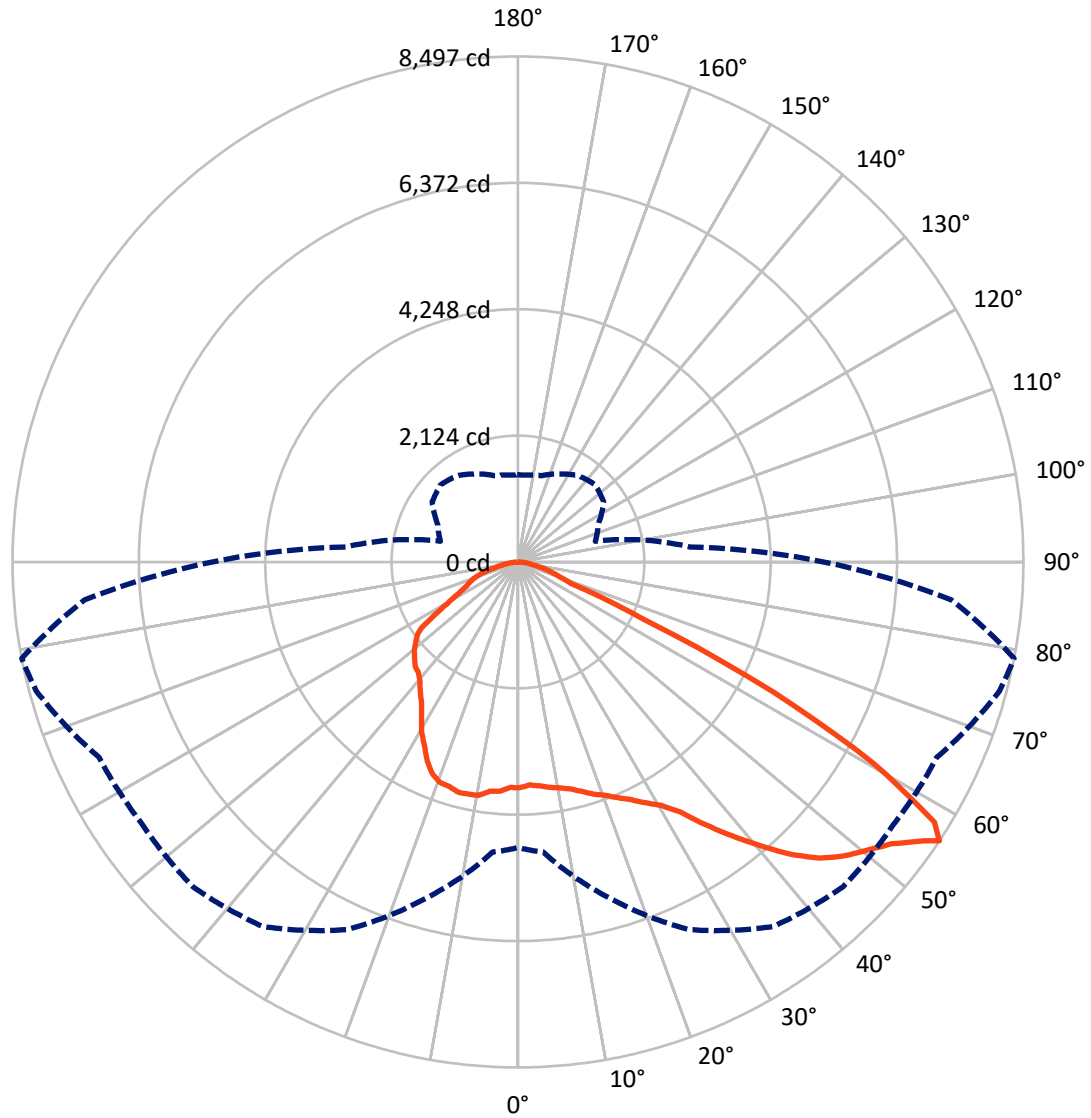
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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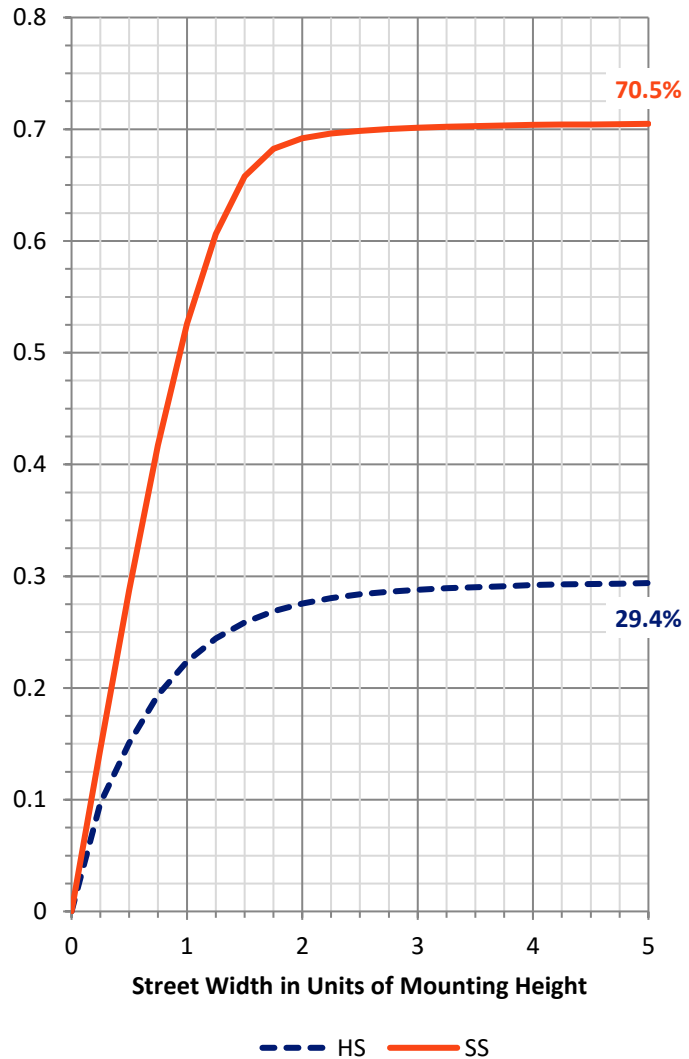
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4379.0	0.0	4379.0
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	10449.0	0.0	10449.0
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	14828.0	0.0	14828.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.9	2.3
10°-20°	944.0	6.4
20°-30°	1615.0	10.9
30°-40°	2475.2	16.7
40°-50°	3345.2	22.6
50°-60°	3842.1	25.9
60°-70°	1751.3	11.8
70°-80°	431.8	2.9
80°-90°	78.5	0.5
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°	14828.0	100.0
0°-180°	14828.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P528246

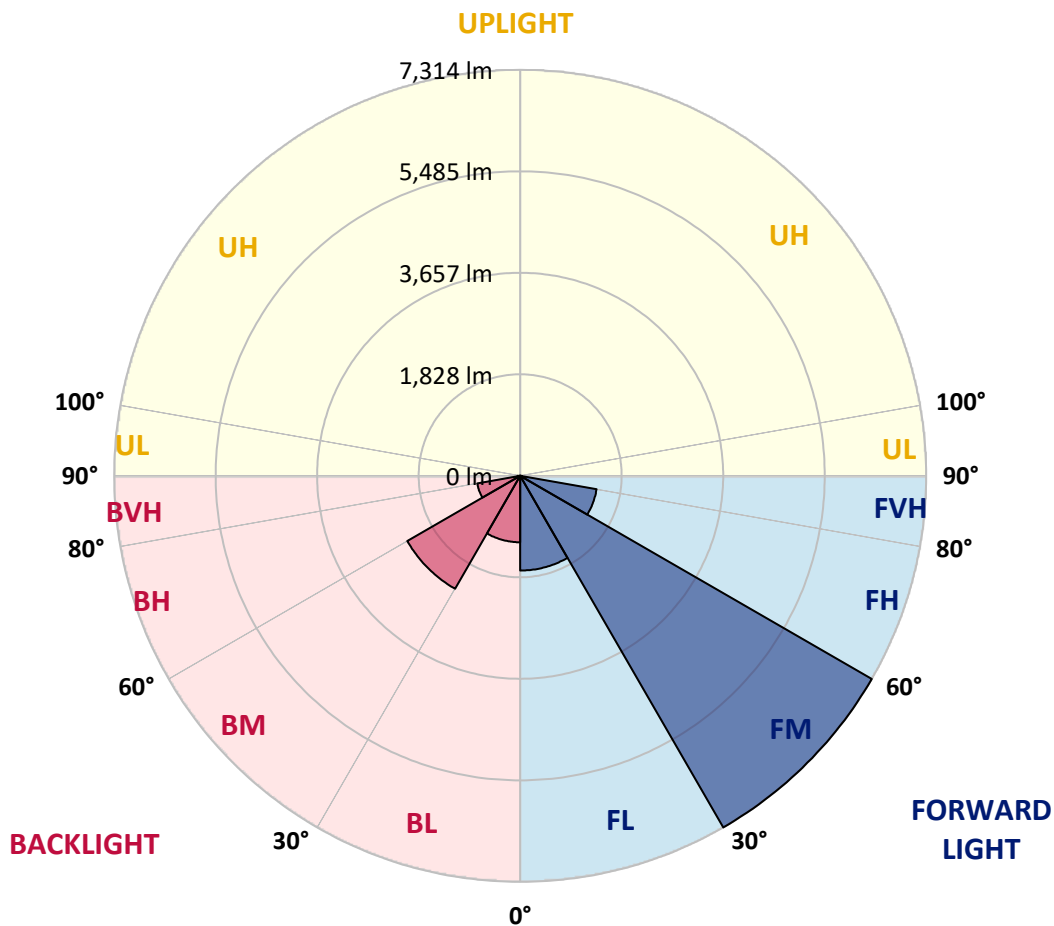
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.1	11.5			
FM (30°-60°)	7313.6	49.3			
FH (60°-80°)	1397.9	9.4			G1/1800
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	1197.9	8.1	B3/2500		
BM (30°-60°)	2348.9	15.8	B2/2500		
BH (60°-80°)	785.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	47.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9
2.5°	3609.2	3600.0	3622.1	3638.7	3659.1	3684.9	3697.8	3705.2	3769.9	3753.3	3803.1
5°	3531.6	3507.6	3524.2	3537.2	3572.2	3603.6	3638.7	3694.2	3753.3	3779.1	3840.1
7.5°	3463.3	3450.3	3446.6	3455.9	3503.9	3544.5	3605.5	3686.8	3782.8	3825.3	3860.4
10°	3350.6	3332.1	3359.8	3420.8	3433.7	3518.7	3588.9	3705.2	3788.4	3862.2	3965.7
12.5°	3300.7	3282.3	3287.8	3322.9	3413.4	3494.7	3577.8	3708.9	3884.4	3914.0	4052.5
15°	3380.2	3361.7	3367.2	3358.0	3444.8	3487.3	3618.4	3782.8	3950.9	4000.8	4148.5
17.5°	3561.2	3563.0	3539.0	3518.7	3498.4	3588.9	3679.4	3827.1	3976.8	4102.4	4213.2
20°	3906.6	3845.6	3797.6	3683.1	3651.7	3690.5	3805.0	3947.2	4082.0	4185.5	4311.1
22.5°	4172.5	4178.1	4109.7	3921.3	3853.0	3869.6	3967.5	4083.9	4231.7	4305.5	4449.6
25°	4558.6	4519.8	4445.9	4296.3	4143.0	4155.9	4228.0	4333.2	4373.9	4425.6	4582.6
27.5°	4911.4	4922.5	4776.5	4636.2	4445.9	4409.0	4538.3	4556.7	4488.4	4586.3	4639.9
30°	5269.7	5260.5	5164.4	5000.0	4813.5	4820.9	4878.1	4787.6	4693.4	4747.0	4783.9
32.5°	5641.0	5535.7	5532.0	5384.2	5242.0	5173.7	5103.5	5147.8	5001.9	5013.0	4977.9
35°	5938.4	5953.1	5868.2	5762.9	5692.7	5572.6	5380.5	5460.0	5432.3	5419.3	5267.9
37.5°	6154.5	6097.2	6139.7	6104.6	6038.1	5888.5	5689.0	5764.7	5777.7	5840.5	5665.0
40°	6331.8	6307.8	6420.4	6438.9	6392.7	6069.5	5711.2	5936.5	6130.5	6267.1	6058.4
42.5°	6416.7	6468.5	6586.7	6728.9	6625.5	6280.1	5825.7	6067.7	6499.9	6716.0	6431.5
45°	6531.3	6464.8	6640.2	6900.7	6902.5	6457.4	5936.5	6245.0	6788.0	7102.0	6686.4
47.5°	6414.9	6448.1	6629.2	6959.8	7044.8	6643.9	6235.7	6496.2	7105.7	7384.6	6922.8
50°	6154.5	6221.0	6551.6	6895.1	7151.9	6841.6	6579.3	6767.7	7399.4	7611.8	6961.6
52.5°	5882.9	5919.9	6437.1	6945.0	7199.9	7096.5	7039.2	7142.7	7757.7	7868.6	7009.7
55°	5144.1	5319.6	6058.4	6922.8	7434.5	7556.4	7512.1	7663.5	8164.1	8274.9	7271.9
56°	4802.4	4894.8	5831.2	6819.4	7480.7	7724.5	7702.3	7770.7	8380.2	8496.6	7312.6
57.5°	4170.7	4178.1	4972.3	6361.3	7307.0	7774.4	7752.2	7805.8	8337.7	8258.3	6956.1
60°	2609.9	2724.4	3383.8	4892.9	6213.6	7212.8	7338.4	6908.1	7030.0	6861.9	5411.9
62.5°	1352.1	1335.4	1773.2	2861.1	4124.5	5164.4	5280.8	5260.5	5072.1	4826.4	3535.3
65°	674.2	677.9	927.2	1416.7	2113.1	2704.1	3029.2	3064.3	2563.7	2358.7	1677.1
67.5°	489.5	507.9	666.8	866.3	995.6	1113.8	1365.0	1339.1	1014.0	964.2	894.0
70°	380.5	397.1	541.2	661.3	600.3	600.3	653.9	676.0	722.2	742.5	766.5
72.5°	277.1	290.0	413.7	456.2	393.4	423.0	489.5	541.2	589.2	596.6	624.3
75°	190.2	201.3	271.5	251.2	236.4	291.8	358.3	406.4	441.5	459.9	476.5
77.5°	123.8	127.4	155.2	131.1	151.5	188.4	232.7	273.4	308.5	323.2	326.9
80°	55.4	61.0	66.5	83.1	105.3	134.8	166.2	199.5	221.6	227.2	238.3
82.5°	31.4	31.4	40.6	59.1	77.6	97.9	120.1	144.1	169.9	175.5	173.6
85°	16.6	16.6	24.0	35.1	48.0	57.3	55.4	57.3	61.0	70.2	68.3
87.5°	5.5	5.5	7.4	7.4	9.2	11.1	9.2	12.9	16.6	16.6	16.6
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: P528246

CATALOG NUMBER: GALN-SA3B-740-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9	3793.9
2.5°	3788.4	3805.0	3782.8	3830.8	3830.8	3821.6	3775.4	3790.2	3801.3	3801.3	3810.5
5°	3860.4	3854.9	3869.6	3812.4	3777.3	3764.3	3688.6	3651.7	3620.3	3618.4	3590.7
7.5°	3901.0	3886.3	3880.7	3838.2	3683.1	3588.9	3426.3	3332.1	3311.8	3239.8	3267.5
10°	3965.7	3993.4	3965.7	3734.8	3518.7	3302.6	3143.7	2997.8	2940.5	2894.4	2866.7
12.5°	4098.7	4085.7	3925.0	3612.9	3310.0	3053.2	2816.8	2663.5	2606.2	2565.6	2561.9
15°	4211.3	4146.7	3901.0	3420.8	2984.9	2711.5	2517.6	2408.6	2382.7	2386.4	2403.0
17.5°	4250.1	4205.8	3775.4	3221.3	2742.9	2421.5	2331.0	2314.4	2338.4	2366.1	2373.5
20°	4311.1	4240.9	3723.7	2949.8	2443.7	2240.5	2235.0	2294.1	2338.4	2379.0	2384.6
22.5°	4438.5	4261.2	3555.6	2693.0	2238.7	2186.9	2240.5	2290.4	2358.7	2392.0	2362.4
25°	4475.5	4216.9	3319.2	2384.6	2109.4	2153.7	2211.0	2279.3	2327.3	2345.8	2358.7
27.5°	4506.9	4148.5	2999.7	2179.6	2068.7	2151.8	2211.0	2268.2	2294.1	2310.7	2325.5
30°	4595.5	4128.2	2722.6	2042.9	2042.9	2114.9	2190.6	2205.4	2240.5	2260.8	2286.7
32.5°	4639.9	3987.8	2438.1	1956.1	2017.0	2133.4	2138.9	2166.6	2168.5	2185.1	2157.4
35°	4756.2	3888.1	2174.0	1893.3	2028.1	2114.9	2142.6	2126.0	2035.5	1991.1	2000.4
37.5°	4841.2	3838.2	1983.8	1885.9	2029.9	2135.2	2150.0	2024.4	1930.2	1856.3	1874.8
40°	5070.2	3714.5	1839.7	1872.9	2046.6	2157.4	2116.8	1980.1	1810.1	1734.4	1721.5
42.5°	5245.7	3625.8	1749.2	1858.2	2059.5	2188.8	2100.1	1891.4	1717.8	1647.6	1666.1
45°	5448.9	3605.5	1701.2	1861.9	2081.7	2205.4	2079.8	1823.1	1638.4	1610.7	1605.1
47.5°	5520.9	3459.6	1649.4	1830.5	2076.1	2199.9	2011.5	1771.3	1608.8	1612.5	1627.3
50°	5400.9	3310.0	1610.7	1765.8	2039.2	2150.0	1904.3	1703.0	1592.2	1638.4	1664.2
52.5°	5247.5	3156.7	1531.2	1679.0	1963.4	2072.4	1854.5	1699.3	1575.6	1560.8	1566.3
55°	5293.7	3031.1	1420.4	1560.8	1841.5	1928.3	1799.1	1664.2	1534.9	1479.5	1498.0
56°	5144.1	2901.8	1348.4	1486.9	1758.4	1836.0	1771.3	1632.8	1501.7	1464.7	1464.7
57.5°	4721.1	2467.7	1254.2	1368.7	1582.9	1675.3	1717.8	1614.3	1464.7	1400.1	1401.9
60°	3481.7	1754.7	1124.9	1206.1	1311.4	1385.3	1582.9	1562.6	1372.4	1328.0	1311.4
62.5°	2146.3	1281.9	1032.5	1063.9	1117.5	1178.4	1381.6	1414.9	1274.5	1226.5	1215.4
65°	1202.4	980.8	962.3	975.3	1001.1	1032.5	1147.0	1220.9	1124.9	1051.0	1047.3
67.5°	879.2	877.4	892.1	903.2	914.3	914.3	942.0	971.6	958.6	899.5	894.0
70°	781.3	786.9	797.9	799.8	803.5	790.5	768.4	759.1	773.9	737.0	729.6
72.5°	644.6	663.1	676.0	677.9	657.6	640.9	611.4	580.0	568.9	561.5	559.7
75°	495.0	507.9	513.5	511.6	504.3	480.2	445.1	413.7	393.4	371.3	382.3
77.5°	334.3	352.8	362.0	362.0	350.9	314.0	297.4	273.4	253.0	229.0	232.7
80°	234.6	247.5	262.3	260.4	242.0	223.5	199.5	177.3	160.7	142.2	140.4
82.5°	175.5	182.9	190.2	186.6	173.6	155.2	138.5	118.2	99.7	86.8	86.8
85°	62.8	68.3	83.1	86.8	94.2	94.2	79.4	66.5	53.6	44.3	44.3
87.5°	18.5	18.5	20.3	20.3	18.5	20.3	16.6	18.5	20.3	12.9	12.9
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)