

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: P529403

Luminaire Tested: **GALN-SA4C-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16264 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

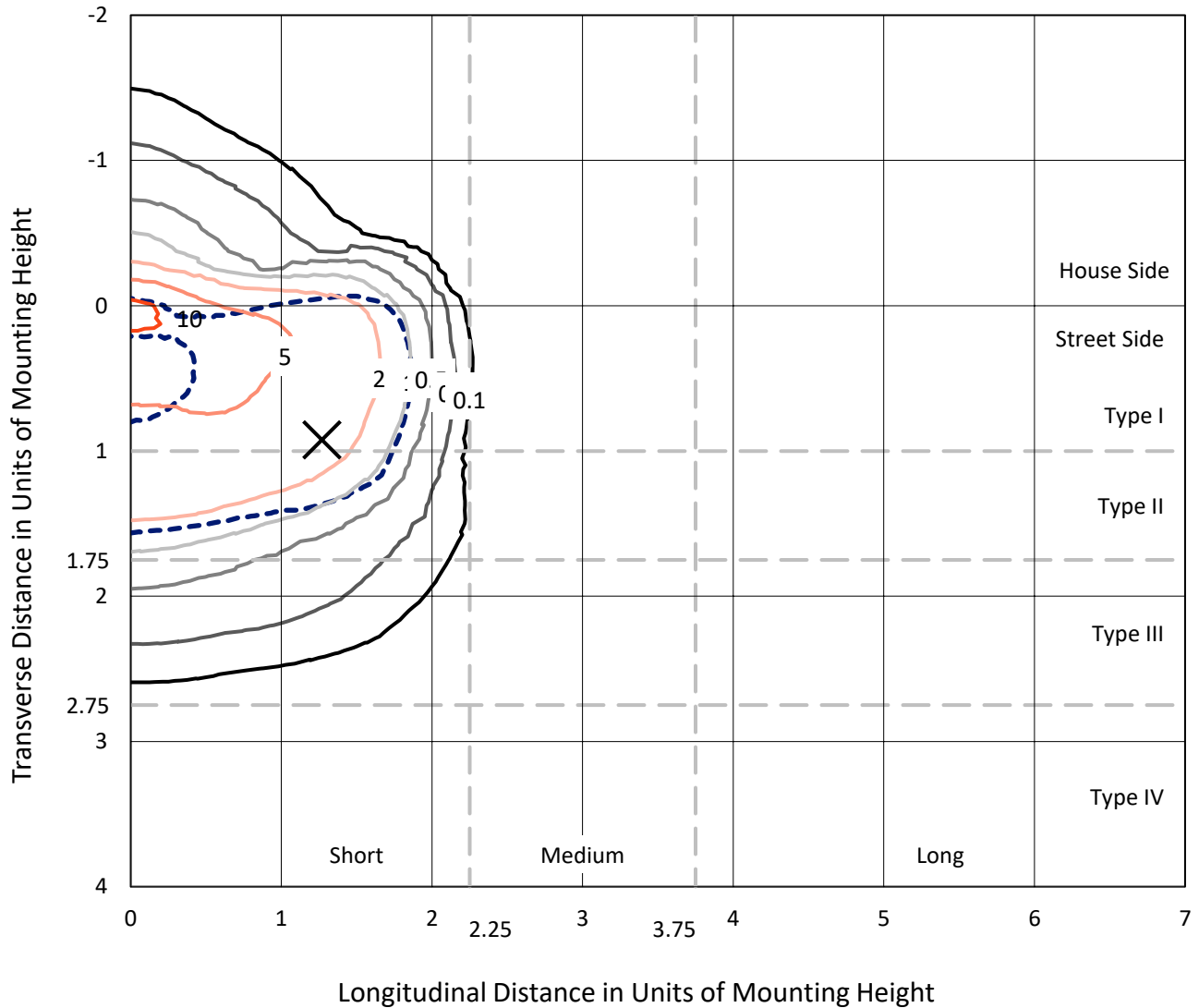
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

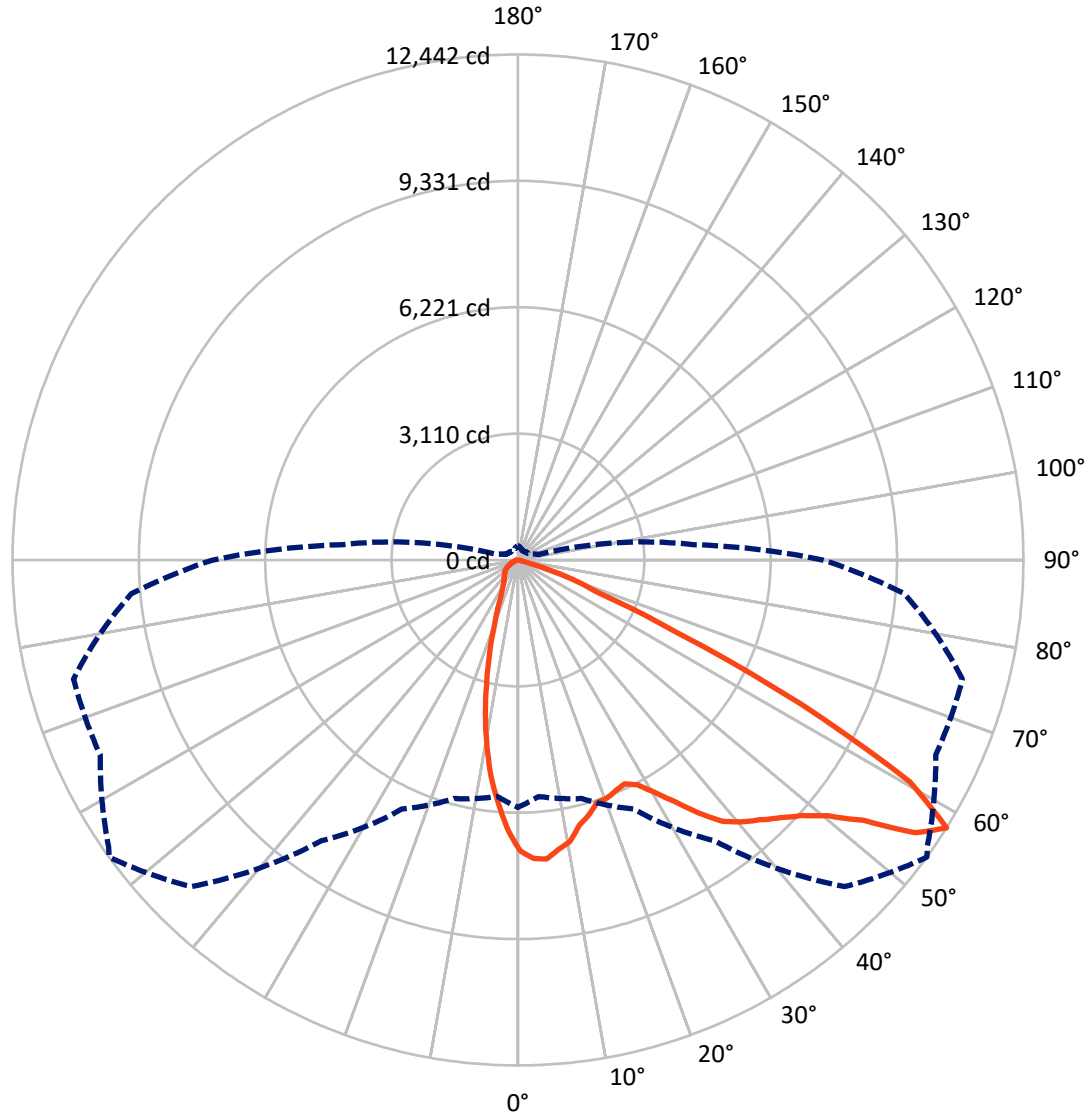
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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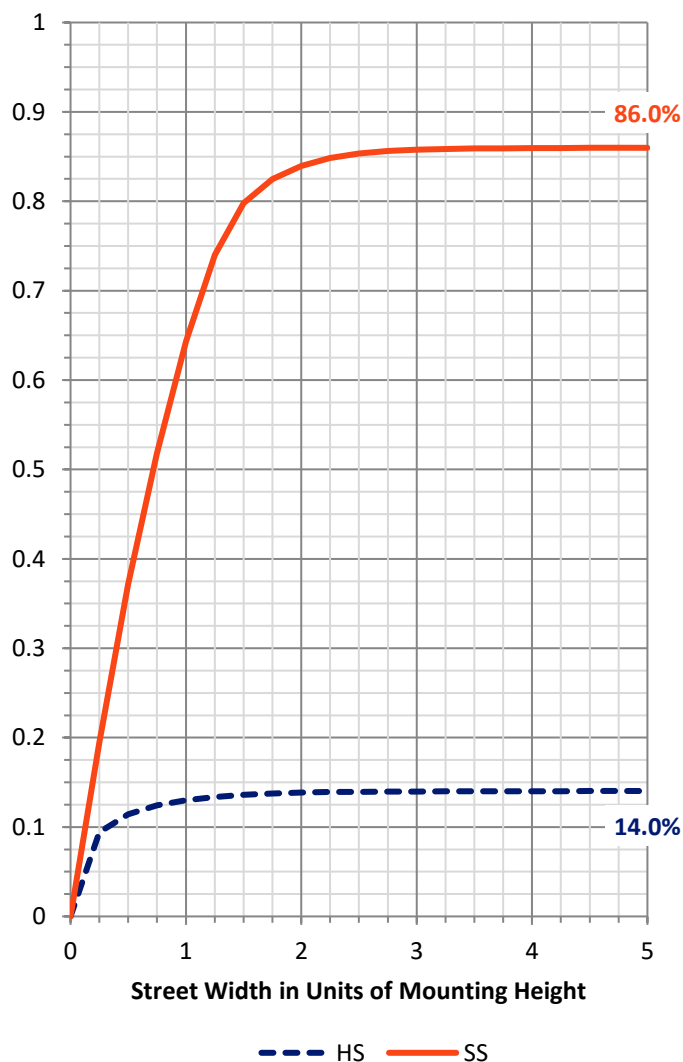
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2298.4	0.0	2298.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	13965.6	0.0	13965.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	16264.0	0.0	16264.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.5	3.7
10°-20°	1280.0	7.9
20°-30°	1696.3	10.4
30°-40°	2465.1	15.2
40°-50°	3655.5	22.5
50°-60°	4571.0	28.1
60°-70°	1803.1	11.1
70°-80°	179.5	1.1
80°-90°	14.0	0.1
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°	16264.0	100.0
0°-180°	16264.0	100.0

**Coefficient of Utilization**

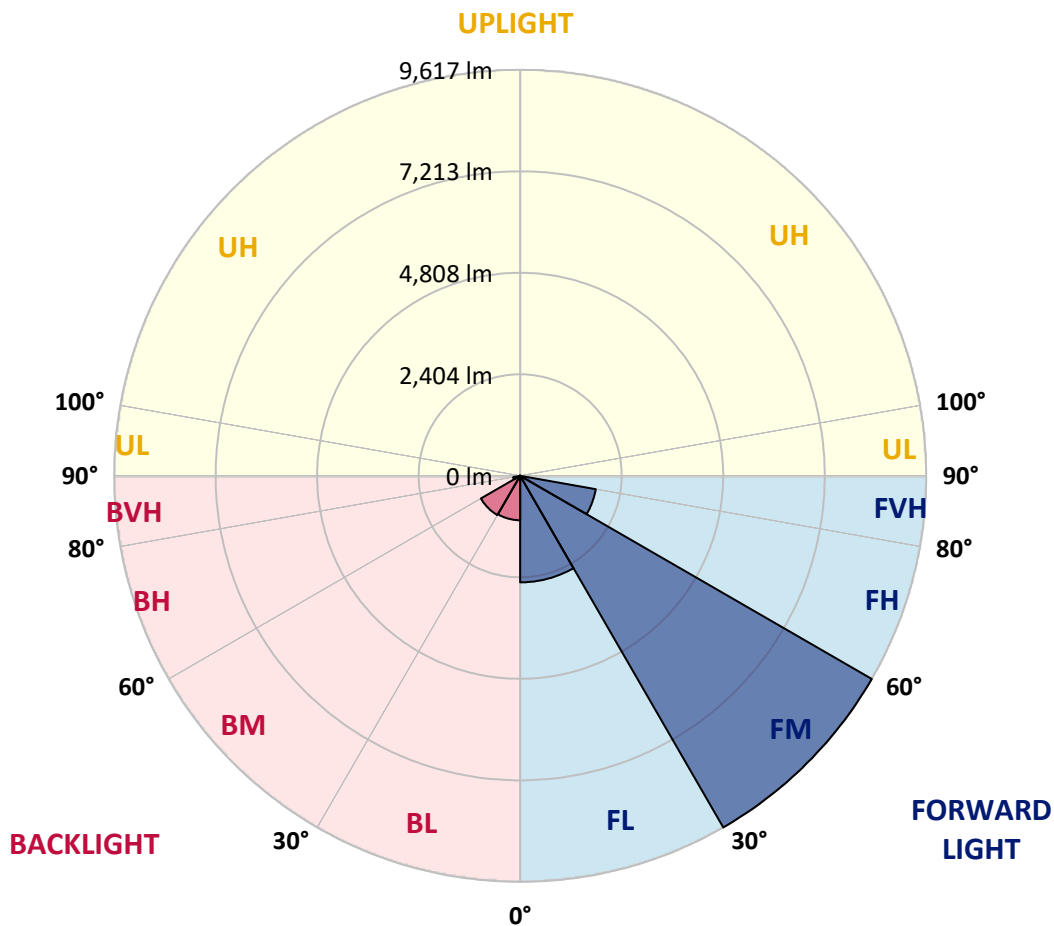


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2524.6	15.5			
FM (30°-60°)	9616.9	59.1			
FH (60°-80°)	1817.8	11.2			G2/5000
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	1051.2	6.5	B3/2500		
BM (30°-60°)	1074.8	6.6	B2/2500		
BH (60°-80°)	164.8	1.0	B1/500		G1/500
BVH (80°-90°)	7.6	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5
2.5°	7581.9	7503.2	7509.3	7482.1	7445.8	7473.0	7355.0	7382.3	7379.2	7218.9	7113.1
5°	7391.3	7476.0	7388.3	7460.9	7391.3	7466.9	7394.4	7339.9	7252.2	7134.3	6937.7
7.5°	7067.7	6986.1	7010.3	7101.0	7116.1	7285.5	7194.8	7264.3	7228.0	6995.2	6726.0
10°	6417.5	6399.4	6520.3	6641.3	6789.5	6971.0	7040.5	7001.2	6974.0	6886.3	6526.4
12.5°	5918.5	5969.9	5966.9	6166.5	6417.5	6520.3	6701.8	6695.7	6847.0	6683.7	6338.9
15°	5443.7	5470.9	5597.9	5721.9	6000.2	6293.5	6517.3	6547.6	6729.0	6614.1	6193.7
17.5°	5153.4	5114.1	5213.9	5362.0	5646.3	6030.4	6278.4	6351.0	6599.0	6574.8	6027.4
20°	4866.1	4866.1	4947.7	5123.1	5383.2	5815.7	6257.2	6236.1	6599.0	6529.4	5849.0
22.5°	4769.3	4817.7	4838.8	4971.9	5280.4	5652.4	6166.5	6205.8	6650.4	6508.2	5770.3
25°	4902.4	4838.8	4844.9	4950.7	5241.1	5573.7	6100.0	6187.7	6744.1	6614.1	5706.8
27.5°	4923.5	4987.0	5005.2	5077.8	5271.3	5597.9	6266.3	6444.7	6977.0	6862.1	5725.0
30°	5108.0	5171.5	5168.5	5292.5	5425.6	5794.5	6638.3	6674.6	7457.9	7173.6	5836.9
32.5°	5331.8	5398.3	5419.5	5564.7	5670.5	6154.4	7091.9	7185.7	7920.6	7663.5	6130.2
35°	5610.0	5585.8	5682.6	5827.8	6054.6	6680.6	7645.4	7802.6	8419.6	8298.6	6432.6
37.5°	5957.8	5927.6	6021.3	6257.2	6565.7	7303.6	8156.5	8259.3	8782.5	8888.3	6992.1
40°	6202.8	6214.9	6499.2	6816.7	7143.3	7896.4	8480.1	8579.9	9036.5	9438.8	7415.5
42.5°	6611.1	6686.7	7028.4	7415.5	7757.3	8341.0	8743.2	8840.0	9154.5	9880.3	7987.1
45°	7203.8	7170.6	7548.6	7981.1	8359.1	8803.7	9054.7	9021.4	9224.0	10318.8	8347.0
47.5°	7965.9	7972.0	8223.0	8592.0	8985.1	9205.9	9402.5	9284.5	9369.2	10781.5	8827.9
50°	8486.1	8531.5	8734.1	9112.1	9308.7	9647.4	9898.5	9825.9	9798.7	11059.8	9130.3
52.5°	8619.2	8755.3	8864.2	9335.9	9795.6	10330.9	10651.5	10805.7	10321.9	11153.5	9514.4
55°	7615.1	7736.1	8120.2	8767.4	9980.1	11413.6	11855.2	11858.2	11005.3	11570.9	9783.5
57.5°	6087.9	5842.9	6078.8	6765.3	8437.7	11368.3	12441.9	12299.7	11347.1	11325.9	9550.7
60°	4209.8	4149.3	4164.4	4436.6	5839.9	9042.6	11087.0	11271.5	10448.9	9816.8	7560.7
62.5°	3335.8	3284.4	3217.8	3187.6	3626.1	5634.2	7820.8	8080.9	7306.7	6366.1	4482.0
65°	2613.0	2582.7	2591.8	2712.8	2709.8	3196.7	4276.3	4170.5	3338.8	2467.8	1409.3
67.5°	1763.2	1808.5	1844.8	2210.7	2398.3	2225.9	2065.6	2005.1	1085.7	456.7	311.5
70°	992.0	998.0	1037.3	1382.1	1820.6	1726.9	1424.4	1424.4	541.3	166.3	178.4
72.5°	541.3	523.2	486.9	595.8	810.5	822.6	635.1	553.4	160.3	108.9	99.8
75°	263.1	260.1	223.8	184.5	175.4	145.2	111.9	102.8	72.6	69.6	60.5
77.5°	54.4	51.4	27.2	27.2	30.2	33.3	42.3	42.3	51.4	51.4	42.3
80°	0.0	0.0	3.0	12.1	21.2	30.2	36.3	36.3	42.3	42.3	33.3
82.5°	0.0	0.0	3.0	9.1	18.1	27.2	33.3	36.3	42.3	45.4	36.3
85°	0.0	0.0	0.0	6.0	15.1	21.2	18.1	18.1	15.1	12.1	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5
2.5°	7058.7	7052.6	6913.5	6834.9	6692.7	6568.7	6468.9	6396.3	6396.3	6351.0	6308.6
5°	6859.1	6807.6	6511.3	6320.7	6051.6	5852.0	5715.9	5610.0	5443.7	5489.1	5310.6
7.5°	6611.1	6481.0	6087.9	5797.5	5425.6	5141.3	4850.9	4593.9	4345.9	4234.0	4294.5
10°	6344.9	6118.1	5588.9	5129.2	4666.5	4146.3	3807.6	3396.3	3142.2	3127.1	3060.6
12.5°	6063.7	5806.6	5162.4	4527.3	3919.5	3293.4	2776.3	2392.2	2219.8	2029.3	2065.6
15°	5852.0	5470.9	4687.6	3922.5	3115.0	2482.9	1962.8	1666.4	1503.1	1457.7	1442.6
17.5°	5622.1	5213.9	4203.7	3278.3	2443.6	1787.3	1412.3	1270.2	1206.7	1206.7	1197.6
20°	5383.2	4923.5	3722.9	2679.5	1832.7	1333.7	1131.1	1085.7	1082.7	1079.7	1079.7
22.5°	5225.9	4590.9	3287.4	2129.1	1382.1	1067.6	982.9	964.7	976.8	1013.1	1013.1
25°	5059.6	4270.3	2806.5	1642.2	1070.6	916.4	868.0	880.1	910.3	943.6	931.5
27.5°	4890.3	4061.6	2352.9	1288.3	877.0	801.4	783.3	810.5	843.8	874.0	864.9
30°	4850.9	3837.8	1923.4	976.8	753.0	698.6	710.7	734.9	768.2	780.3	792.4
32.5°	4911.4	3662.4	1575.6	801.4	656.3	641.1	641.1	653.2	674.4	701.6	692.6
35°	5083.8	3562.6	1246.0	695.6	601.8	586.7	583.7	595.8	607.9	617.0	607.9
37.5°	5346.9	3484.0	1019.2	617.0	565.5	541.3	535.3	532.3	544.4	547.4	553.4
40°	5682.6	3526.3	864.9	568.6	529.2	502.0	483.9	483.9	483.9	493.0	496.0
42.5°	6045.5	3583.8	747.0	541.3	496.0	462.7	444.6	438.5	444.6	456.7	453.6
45°	6426.6	3695.7	671.4	499.0	465.7	423.4	399.2	393.2	408.3	432.5	429.4
47.5°	6783.5	3856.0	613.9	471.8	435.5	396.2	365.9	359.9	387.1	420.4	423.4
50°	7140.3	4134.2	592.8	450.6	414.3	369.0	341.7	335.7	365.9	408.3	417.4
52.5°	7551.6	4433.6	577.6	423.4	390.1	347.8	317.5	311.5	344.8	399.2	402.2
55°	7820.8	4687.6	565.5	375.0	344.8	314.5	290.3	287.3	323.6	372.0	384.1
57.5°	7506.3	4333.8	523.2	326.6	293.4	278.2	257.1	257.1	287.3	332.7	341.7
60°	5691.7	2851.9	372.0	263.1	248.0	238.9	229.8	229.8	254.0	287.3	290.3
62.5°	3332.8	1536.3	238.9	211.7	211.7	202.6	187.5	187.5	211.7	229.8	232.9
65°	988.9	493.0	193.6	181.5	178.4	163.3	148.2	145.2	163.3	172.4	169.4
67.5°	284.3	226.8	160.3	151.2	148.2	124.0	114.9	111.9	114.9	108.9	105.8
70°	169.4	154.2	124.0	127.0	111.9	90.7	81.7	78.6	72.6	63.5	57.5
72.5°	93.8	93.8	90.7	96.8	78.6	60.5	51.4	42.3	33.3	27.2	24.2
75°	57.5	60.5	63.5	66.5	51.4	39.3	33.3	21.2	12.1	6.0	6.0
77.5°	39.3	42.3	45.4	48.4	42.3	36.3	27.2	15.1	3.0	0.0	0.0
80°	30.2	33.3	39.3	42.3	45.4	48.4	36.3	15.1	3.0	0.0	0.0
82.5°	33.3	36.3	45.4	42.3	42.3	42.3	33.3	15.1	3.0	0.0	0.0
85°	6.0	9.1	15.1	15.1	21.2	27.2	21.2	6.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)