

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: P650962

Luminaire Tested: **GALN-SA6C-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28840.4 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

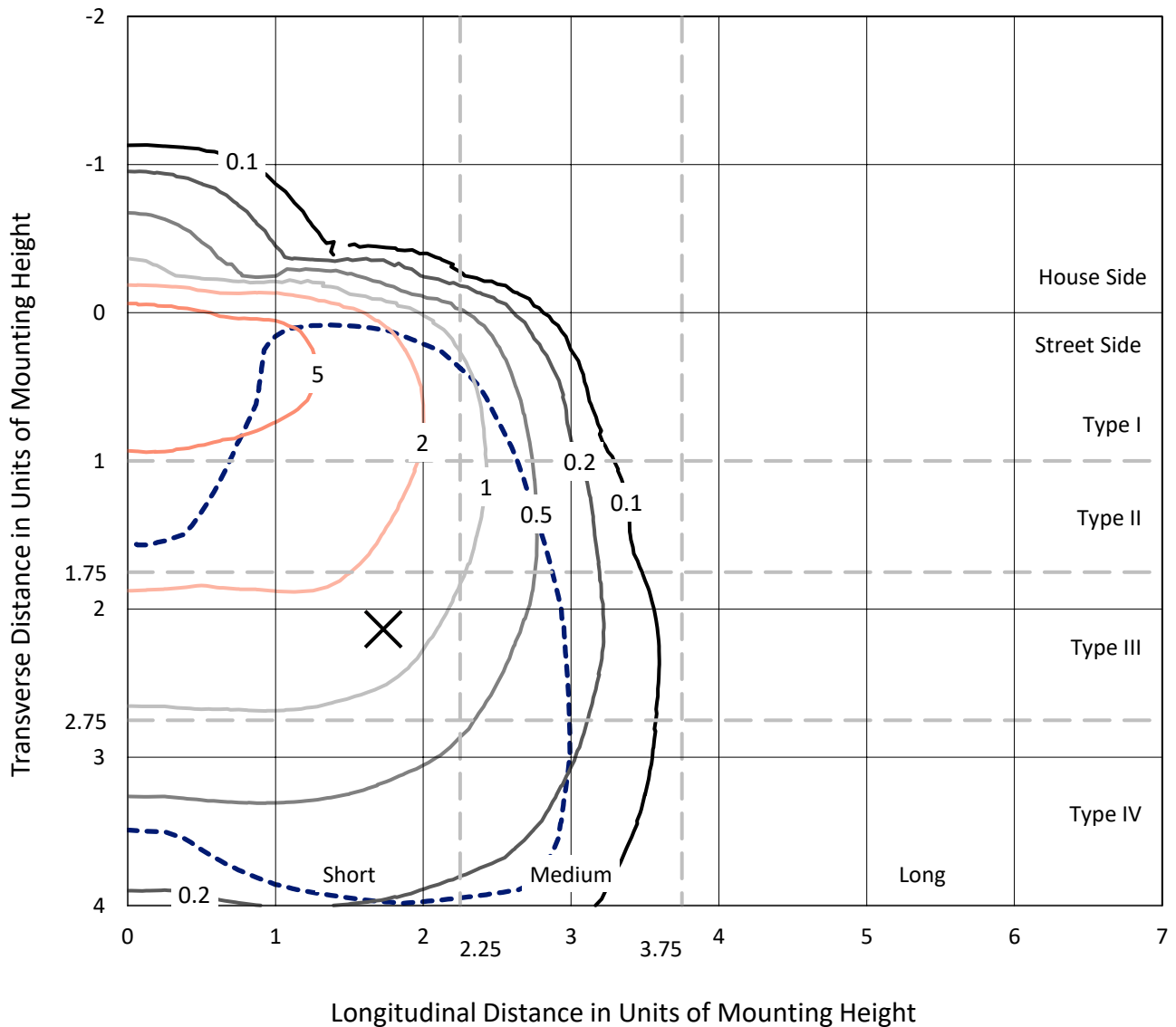
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

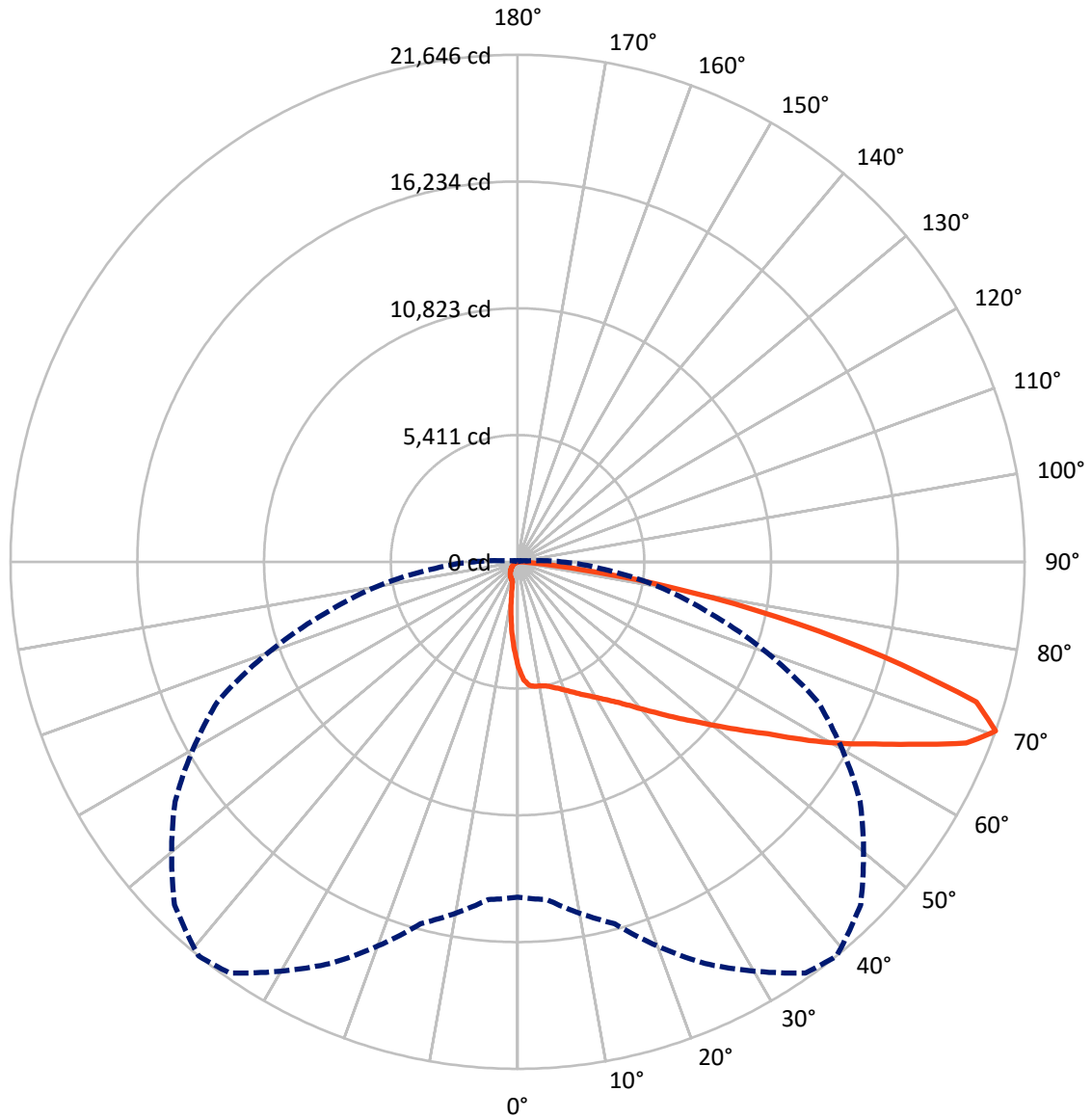
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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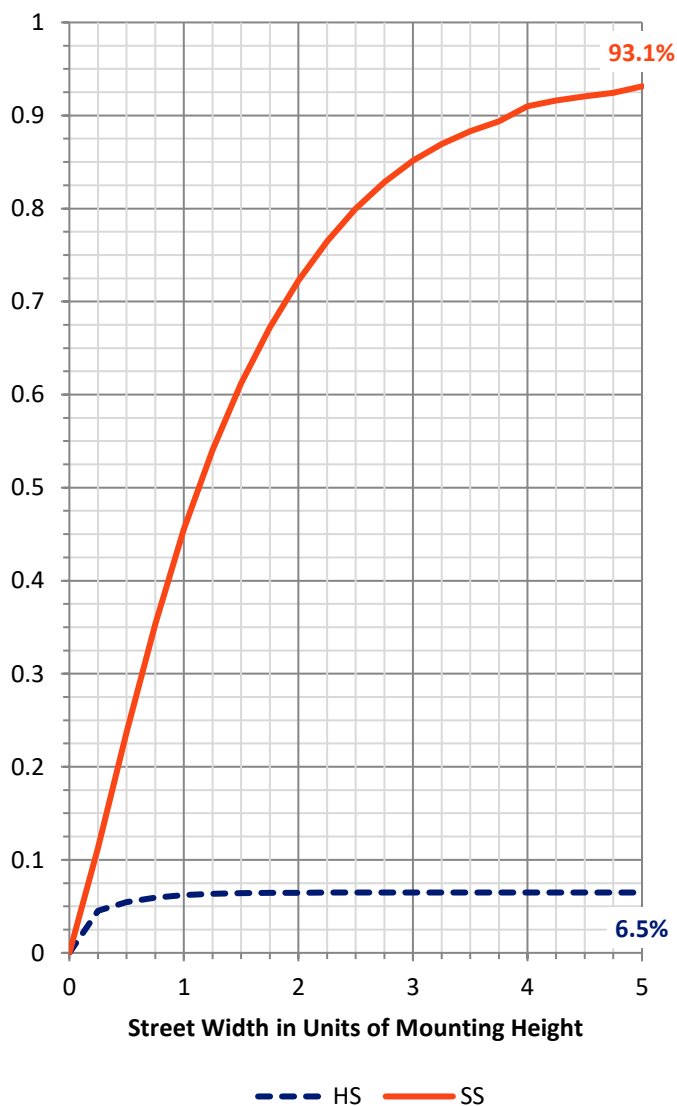
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1880.5	0.0	1880.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	26959.9	0.0	26959.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	28840.4	0.0	28840.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.8	1.3
10°-20°	997.4	3.5
20°-30°	1671.0	5.8
30°-40°	2591.5	9.0
40°-50°	4106.8	14.2
50°-60°	6020.0	20.9
60°-70°	7716.1	26.8
70°-80°	4848.6	16.8
80°-90°	505.1	1.8
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°	28840.4	100.0
0°-180°	28840.4	100.0

Coefficient of Utilization

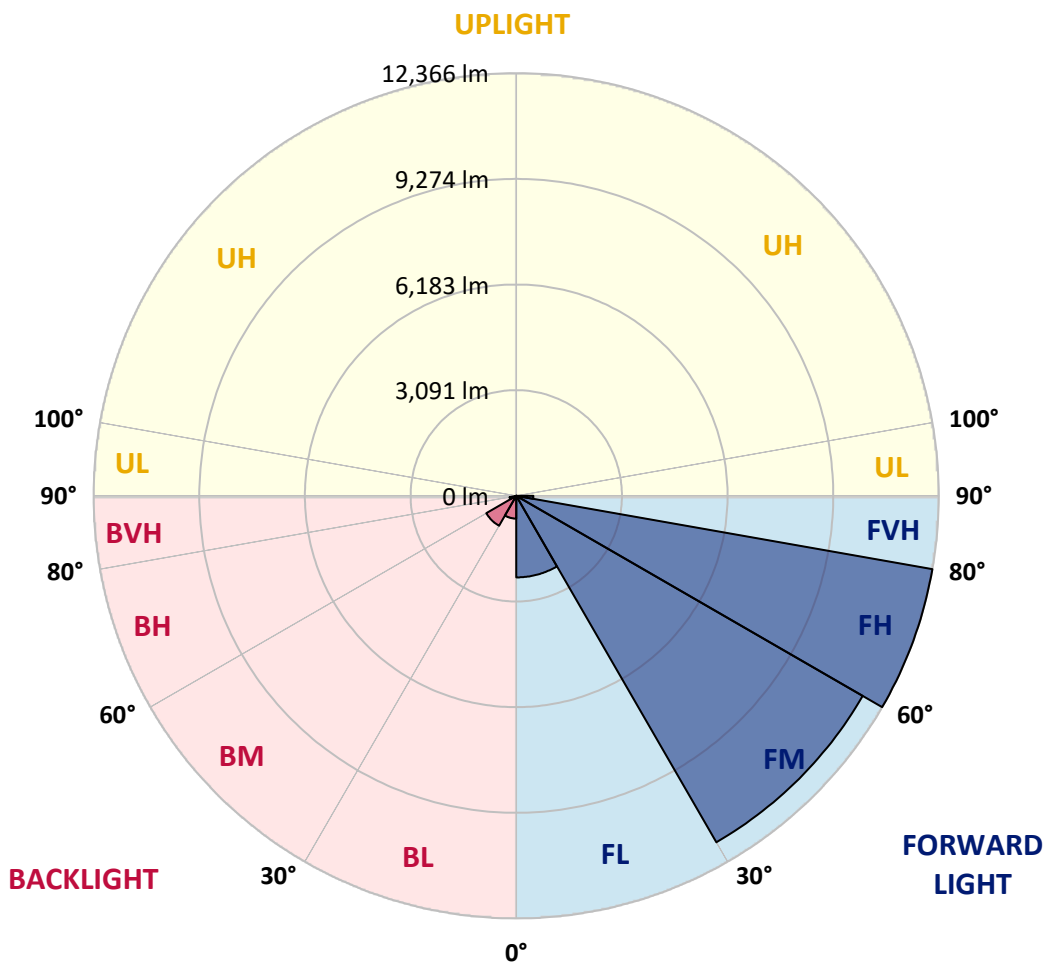


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2386.4	8.3			
FM (30°-60°)	11706.3	40.6			
FH (60°-80°)	12365.8	42.9			G5
FVH (80°-90°)	501.4	1.7			G4/750
BL (0°-30°)	665.9	2.3	B2/1000		
BM (30°-60°)	1012.0	3.5	B2/2500		
BH (60°-80°)	198.9	0.7	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1
2.5°	5199.7	5182.2	5159.0	5131.9	5054.4	5040.8	4994.3	4895.5	4777.2	4680.3	4546.6
5°	5445.8	5455.6	5438.1	5389.6	5333.5	5300.5	5242.4	5089.2	4936.2	4740.4	4521.4
7.5°	5502.1	5521.4	5500.1	5453.6	5399.3	5364.5	5318.0	5186.2	5007.8	4785.0	4484.5
10°	5496.3	5519.5	5505.9	5463.3	5418.7	5385.8	5335.4	5230.8	5087.3	4852.8	4496.2
12.5°	5486.5	5517.5	5515.6	5494.3	5457.5	5432.3	5401.2	5308.2	5174.5	4951.6	4560.2
15°	5459.4	5498.2	5533.0	5550.5	5552.5	5552.5	5513.7	5414.9	5286.9	5081.5	4643.5
17.5°	5471.0	5515.6	5602.8	5653.2	5688.1	5684.2	5643.5	5537.0	5395.4	5215.2	4730.7
20°	5542.8	5602.8	5724.9	5825.7	5860.6	5849.0	5794.7	5670.7	5509.8	5329.6	4816.0
22.5°	5719.1	5773.4	5926.4	6044.7	6069.9	6038.9	5961.3	5792.7	5647.4	5453.6	4918.7
25°	5982.7	6046.6	6188.1	6277.2	6277.2	6259.8	6151.3	5953.6	5802.5	5626.1	5052.4
27.5°	6302.5	6356.7	6496.2	6575.7	6529.2	6478.8	6370.3	6131.9	5986.6	5843.2	5213.3
30°	6626.1	6661.0	6808.3	6843.1	6794.7	6730.8	6614.5	6376.1	6248.2	6137.7	5445.8
32.5°	6932.3	7007.9	7130.0	7122.3	7056.3	7025.4	6918.7	6664.8	6593.2	6581.5	5771.4
35°	7238.5	7296.7	7405.2	7432.3	7374.2	7368.3	7290.9	7102.8	7104.8	7180.4	6279.2
37.5°	7502.1	7554.5	7682.4	7742.4	7754.0	7783.1	7752.1	7628.0	7804.4	8011.8	6951.7
40°	7723.0	7796.7	7959.5	8064.1	8184.3	8290.8	8296.7	8323.8	8678.4	9035.0	7829.6
42.5°	7895.5	7998.2	8234.7	8428.5	8703.7	8839.3	8947.8	9097.1	9694.0	10227.0	8864.6
45°	8120.4	8238.5	8533.1	8837.4	9267.7	9490.5	9641.6	10040.9	10887.8	11614.5	9926.6
47.5°	8492.4	8554.4	8854.8	9298.7	9864.5	10182.4	10476.9	11081.6	12168.8	12820.0	10810.3
50°	8971.1	9011.8	9238.6	9854.8	10587.4	11006.1	11542.9	12254.1	13498.3	13820.1	11310.3
52.5°	9500.2	9513.7	9684.3	10467.3	11397.5	11924.7	12525.4	13403.4	14581.7	14533.2	11641.7
55°	10114.5	10095.2	10240.5	11132.0	12356.8	12959.6	13659.2	14579.7	15521.7	15039.1	11831.6
57.5°	10818.0	10765.7	10907.2	12013.9	13585.5	14306.5	15017.7	15595.3	16250.3	15463.5	11922.7
60°	11554.5	11449.9	11618.5	13004.1	15033.3	15717.4	16308.5	16463.5	17017.8	15800.7	11765.8
62.5°	12141.7	12143.7	12457.6	14058.4	16521.7	17120.5	17434.4	17574.0	17678.7	15727.0	10940.1
65°	13058.4	13089.4	13591.4	15521.7	18244.6	18764.0	18979.1	18525.5	17707.8	14812.4	9699.8
67.5°	14004.2	14103.0	15021.6	17537.2	20234.9	20653.5	20376.4	18709.7	16917.1	12725.1	7354.8
70°	14312.3	14475.1	15988.7	18924.8	21428.8	21645.8	20707.8	17851.2	14141.8	8507.9	3701.7
72.5°	13114.6	13378.2	15432.5	18419.0	20667.1	20479.1	18527.5	14971.2	8990.5	3230.7	1129.9
75°	9248.2	9364.5	12825.8	15279.4	16622.4	16089.5	14093.3	9651.4	3697.8	907.0	387.6
77.5°	4775.3	4719.1	7628.0	10137.8	11854.9	11302.5	9228.9	4996.2	1401.2	377.9	240.3
80°	2469.0	2509.7	3300.4	5312.1	7236.6	6659.0	4920.6	2315.9	746.1	209.3	184.1
82.5°	1383.8	1298.5	1897.3	2319.8	3383.8	2653.2	1887.6	1639.5	325.6	126.0	174.4
85°	252.0	263.6	1040.7	1253.9	1174.5	746.1	608.5	1095.0	94.9	69.8	122.1
87.5°	3.9	3.9	201.6	360.5	228.7	104.6	191.8	157.0	19.3	27.2	21.3
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°	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1	4500.1
2.5°	4478.7	4405.2	4267.6	4131.8	3959.3	3817.9	3722.9	3624.1	3523.4	3531.1	3554.3
5°	4401.3	4273.4	4002.0	3715.2	3440.0	3191.9	2947.7	2728.7	2639.6	2558.2	2562.1
7.5°	4323.7	4143.5	3746.2	3296.6	2879.9	2457.4	2151.2	1899.2	1765.5	1664.8	1635.7
10°	4288.8	4050.5	3511.7	2893.5	2302.4	1841.1	1447.7	1242.2	1083.4	1033.0	1046.5
12.5°	4304.3	4004.0	3300.4	2529.1	1825.6	1282.9	1007.8	903.1	868.2	862.4	858.6
15°	4333.4	3971.0	3093.1	2126.0	1341.1	953.5	846.9	827.5	823.7	819.8	821.7
17.5°	4372.2	3941.9	2872.2	1748.1	1029.1	833.3	802.3	792.6	790.7	790.7	790.7
20°	4411.0	3909.0	2626.0	1410.9	858.6	786.8	767.5	761.6	759.7	759.7	757.7
22.5°	4455.5	3880.0	2376.0	1108.5	790.7	753.9	736.5	732.6	730.7	728.7	728.7
25°	4519.4	3843.1	2110.5	907.0	748.1	722.9	705.4	701.6	699.6	691.9	693.8
27.5°	4604.7	3816.0	1837.2	783.0	709.3	684.2	672.5	666.7	662.8	657.0	658.9
30°	4721.0	3792.7	1546.5	715.1	664.7	643.4	631.8	627.9	624.0	618.2	618.2
32.5°	4922.5	3802.4	1240.3	660.9	624.0	598.9	587.2	583.3	579.4	573.6	573.6
35°	5224.9	3858.6	992.3	614.4	575.6	550.4	538.7	538.7	532.9	525.2	523.3
37.5°	5719.1	4002.0	796.5	569.8	529.1	505.9	492.2	488.4	482.6	471.0	469.0
40°	6302.5	4224.9	670.5	525.2	486.4	463.2	451.5	439.9	424.5	412.8	410.8
42.5°	7035.0	4453.6	581.4	480.6	445.7	424.5	410.8	391.5	368.2	352.7	350.8
45°	7798.6	4662.9	521.3	439.9	407.0	389.6	374.1	343.0	313.9	294.6	292.7
47.5°	8368.4	4701.6	472.9	401.2	374.1	356.6	335.3	296.5	257.8	240.3	234.5
50°	8637.7	4513.6	422.5	362.4	341.1	321.7	294.6	250.0	207.4	186.0	182.2
52.5°	8732.8	4188.1	381.8	327.5	308.1	284.9	252.0	201.6	162.8	141.5	139.5
55°	8694.0	3777.2	345.0	294.6	269.4	242.3	209.3	160.9	120.2	102.7	98.8
57.5°	8490.5	3253.9	308.1	261.6	230.6	203.5	166.7	120.2	81.4	65.9	63.9
60°	7942.1	2540.7	271.3	224.8	195.7	166.7	131.8	85.3	50.4	36.8	36.8
62.5°	7015.6	1885.7	236.4	188.0	164.8	133.7	93.0	54.2	27.2	19.3	17.4
65°	5862.5	1391.5	197.7	158.9	137.6	104.6	65.9	33.0	13.5	5.8	3.9
67.5°	4091.1	858.6	164.8	129.9	112.4	75.6	40.7	13.5	5.8	0.0	0.0
70°	1858.5	408.9	126.0	98.8	85.3	54.2	21.3	7.7	3.9	0.0	0.0
72.5°	577.5	215.1	89.1	71.7	58.1	34.9	11.6	5.8	3.9	0.0	0.0
75°	267.4	137.6	56.2	38.8	33.0	17.4	7.7	3.9	1.9	0.0	0.0
77.5°	199.7	106.6	33.0	21.3	17.4	11.6	5.8	3.9	1.9	0.0	0.0
80°	174.4	54.2	19.3	13.5	9.7	7.7	3.9	1.9	0.0	0.0	0.0
82.5°	157.0	27.2	11.6	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0
85°	85.3	15.5	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	15.5	7.7	5.8	3.9	3.9	1.9	1.9	1.9	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)