

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: P458246

Luminaire Tested: **GALN-SA9C-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36683 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

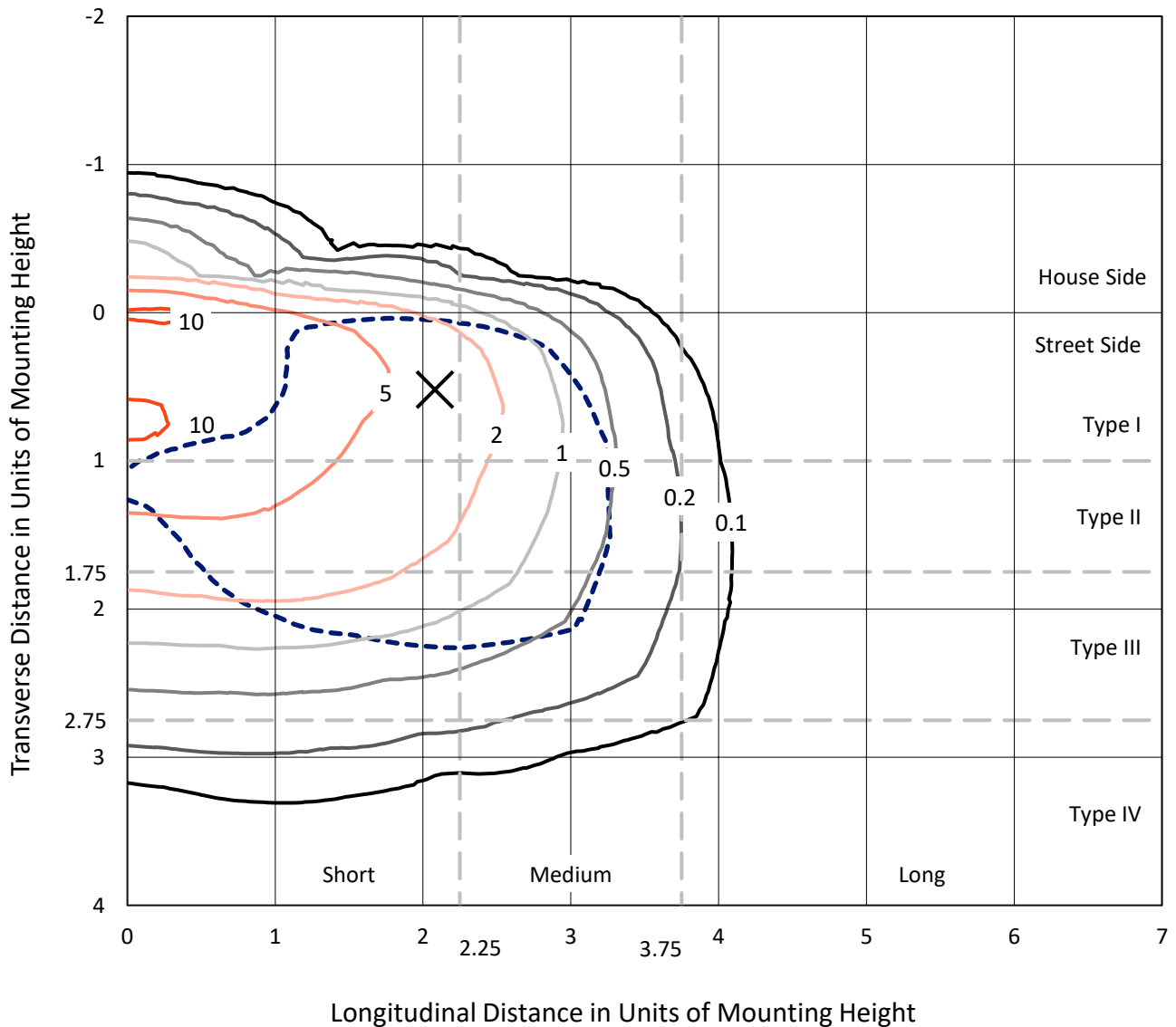
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

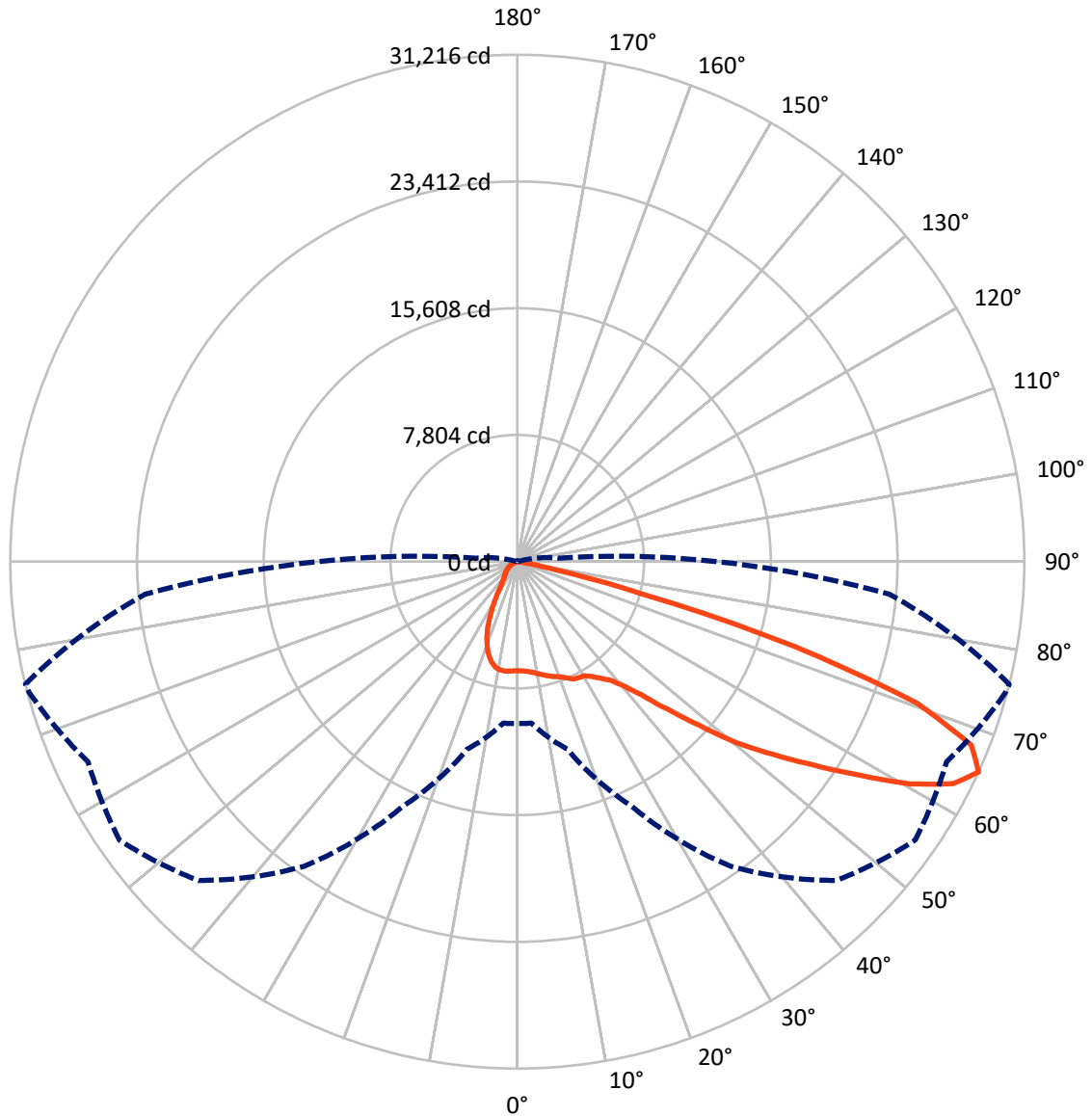
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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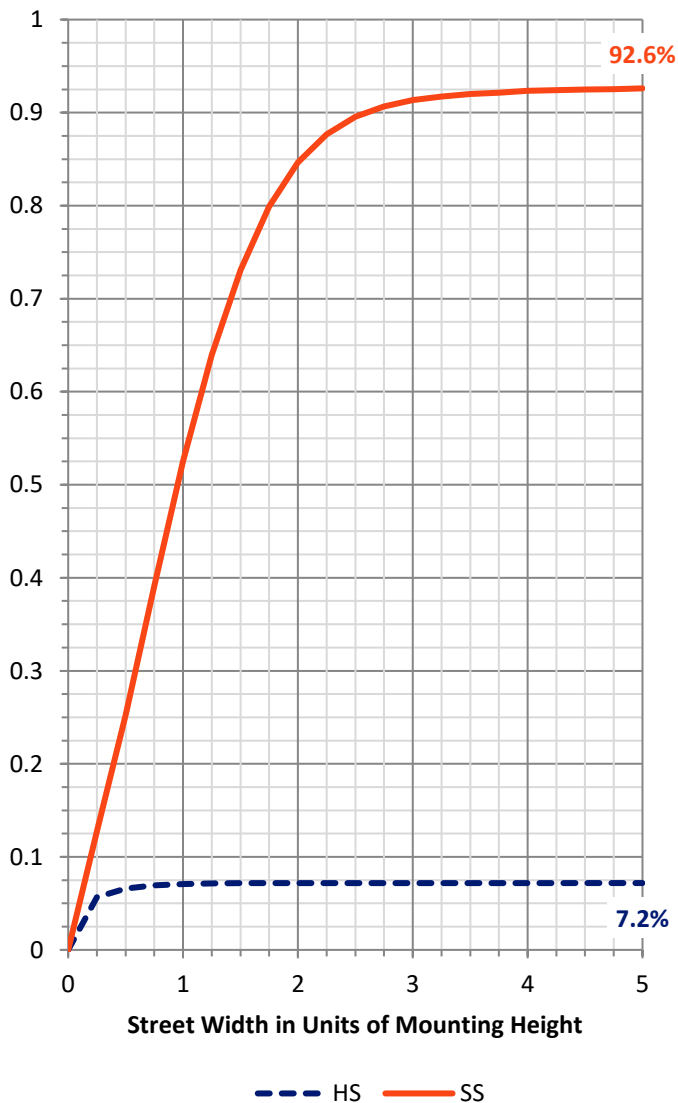
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2649.2	0.0	2649.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34033.8	0.0	34033.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	36683.0	0.0	36683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.8	1.5
10°-20°	1230.8	3.4
20°-30°	1983.4	5.4
30°-40°	3448.6	9.4
40°-50°	5698.6	15.5
50°-60°	8803.1	24.0
60°-70°	10749.8	29.3
70°-80°	4079.8	11.1
80°-90°	136.2	0.4
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°	36683.0	100.0
0°-180°	36683.0	100.0

Coefficient of Utilization



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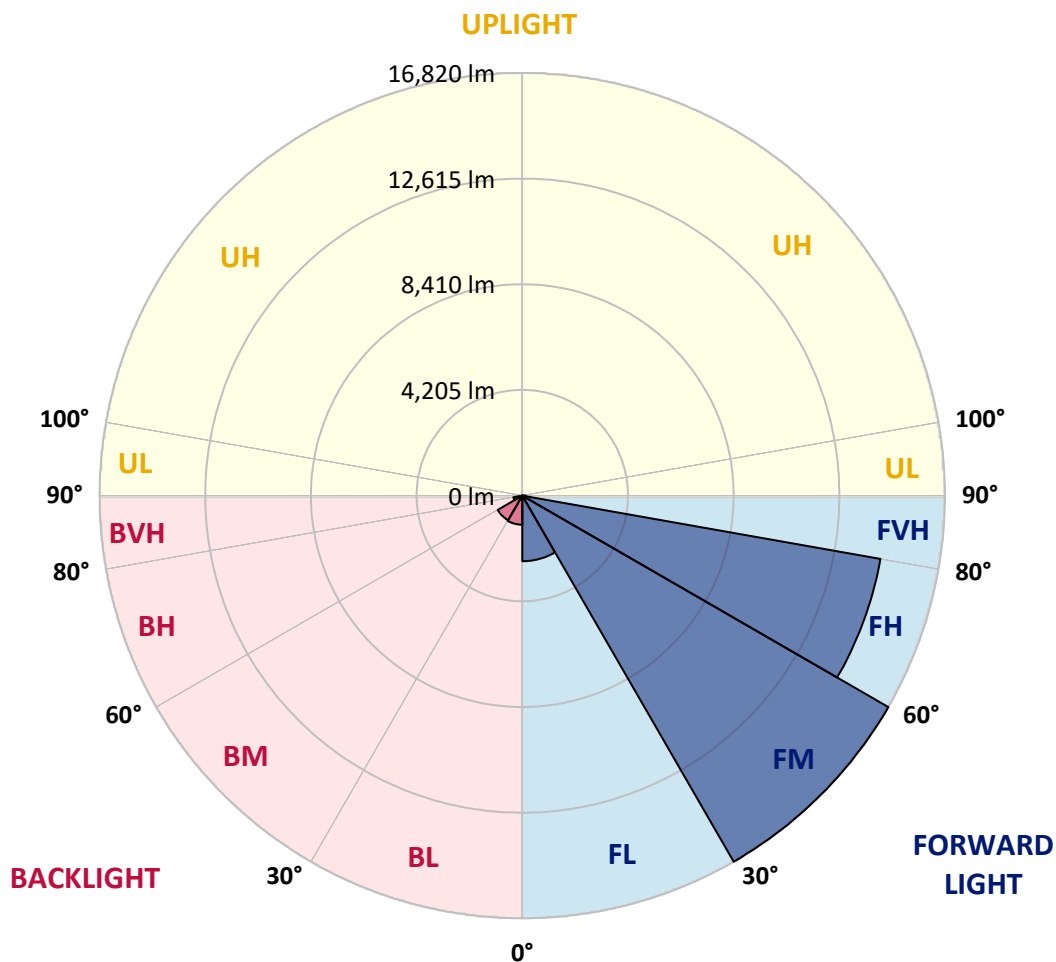
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.6	7.1			
FM (30°-60°)	16819.7	45.9			
FH (60°-80°)	14470.2	39.4			G5
FVH (80°-90°)	134.3	0.4			G2/225
BL (0°-30°)	1157.4	3.2	B3/2500		
BM (30°-60°)	1130.5	3.1	B2/2500		
BH (60°-80°)	359.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.9	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5
2.5°	6412.7	6415.2	6430.8	6469.6	6529.2	6578.4	6619.8	6687.2	6733.8	6739.0	6754.5
5°	5969.8	5938.7	5969.8	6070.8	6161.4	6298.7	6467.0	6635.4	6785.6	6796.0	6868.5
7.5°	5472.5	5498.4	5547.6	5651.2	5822.1	6031.9	6275.4	6575.8	6860.7	6886.6	7029.1
10°	4967.5	5024.5	5104.7	5262.7	5501.0	5772.9	6104.4	6534.4	6979.8	7016.1	7262.1
12.5°	4501.3	4527.2	4625.6	4838.0	5133.2	5516.5	5975.0	6511.1	7111.9	7156.0	7510.8
15°	4143.9	4177.5	4263.0	4454.7	4783.6	5275.7	5868.8	6503.3	7241.4	7303.6	7759.4
17.5°	4076.5	4097.3	4133.5	4263.0	4550.5	5084.0	5772.9	6500.7	7365.7	7440.8	7989.9
20°	4353.7	4335.5	4299.3	4286.3	4444.3	4936.4	5703.0	6521.4	7484.9	7570.3	8233.4
22.5°	5047.8	5071.1	4858.7	4607.5	4555.7	4913.1	5692.7	6619.8	7673.9	7774.9	8505.3
25°	6521.4	6342.7	6011.2	5410.3	4957.1	5055.5	5809.2	6852.9	7894.1	8005.5	8751.4
27.5°	8150.5	8096.1	7580.7	6591.4	5747.0	5356.0	6016.4	7031.6	7966.6	8080.6	8891.2
30°	9751.1	9815.8	9225.3	8132.4	6894.4	5912.8	6210.6	7099.0	8031.4	8150.5	9069.9
32.5°	11235.1	11312.8	10794.8	9712.2	8246.3	6876.2	6544.7	7360.6	8303.3	8425.0	9367.8
35°	12403.1	12413.5	12022.4	11160.0	9722.6	8046.9	7267.3	7819.0	8671.1	8813.5	9683.7
37.5°	13475.4	13459.8	13001.4	12258.1	10952.8	9209.8	8176.4	8347.3	9090.6	9238.3	10139.5
40°	14270.5	14280.8	14133.2	13433.9	12100.1	10284.6	8896.4	8842.0	9795.1	10025.6	10802.6
42.5°	14801.4	14897.2	14969.8	14614.9	13542.7	11608.0	10002.3	9901.3	11017.5	11209.2	11740.1
45°	15231.3	15402.3	15764.9	15746.7	14928.3	13231.9	11520.0	11312.8	12750.2	12954.8	12934.1
47.5°	15544.7	15718.2	16319.1	16681.7	16231.0	14806.6	13428.8	13250.0	14819.5	15042.3	14252.3
50°	15705.3	15912.5	16679.1	17381.0	17248.9	16324.3	15604.3	15614.6	17318.8	17533.8	15780.4
52.5°	15329.8	15599.1	16870.8	18134.6	18391.0	17777.2	17642.6	17984.4	19543.6	19727.4	17160.8
55°	14130.6	14469.9	16609.2	18776.9	19714.5	19491.8	19957.9	20478.5	21975.5	22094.6	18577.5
57.5°	13371.8	13731.8	15837.4	19323.4	21304.7	21646.6	22384.7	22765.4	24485.1	24788.2	20204.0
60°	12732.1	13014.4	15202.9	19440.0	22920.8	24283.1	25000.5	25394.2	27582.7	27779.5	21993.6
62.5°	11667.6	11991.3	14130.6	18626.7	23734.1	26393.9	27880.5	27704.4	29978.4	30115.6	23091.8
65°	9955.7	9984.2	11955.1	16583.3	22894.9	27764.0	29903.3	29165.1	31123.1	31216.3	23006.3
67.5°	7430.5	7705.0	9196.8	13035.1	19339.0	26593.3	30558.5	29204.0	30400.5	30141.5	21180.4
70°	4786.2	4996.0	6233.9	9038.8	13944.1	22193.1	28385.6	27202.0	26681.4	26106.4	17336.9
72.5°	2209.2	2478.6	3703.6	5164.3	8269.6	15808.9	23042.5	22099.8	19204.3	17785.0	11020.1
75°	963.5	1030.8	1828.5	2724.6	3877.1	8360.3	15192.5	13718.8	8673.7	7922.6	4410.6
77.5°	587.9	631.9	958.3	1460.7	1522.9	3185.6	8184.2	5985.3	2680.6	2364.6	1196.5
80°	398.8	448.1	696.7	764.0	520.6	888.3	3071.6	1598.0	541.3	518.0	256.4
82.5°	194.2	246.0	515.4	427.3	225.3	284.9	893.5	341.9	158.0	147.6	90.6
85°	28.5	49.2	290.1	279.7	101.0	67.3	158.0	85.5	54.4	51.8	41.4
87.5°	0.0	0.0	98.4	44.0	10.4	10.4	18.1	18.1	20.7	18.1	20.7
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°	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5	6710.5
2.5°	6762.3	6775.2	6726.0	6656.1	6581.0	6505.9	6399.7	6303.9	6246.9	6280.6	6197.7
5°	6884.0	6873.7	6744.2	6531.8	6249.5	5910.2	5573.5	5286.0	5192.8	5052.9	5037.4
7.5°	7052.4	7023.9	6749.3	6262.4	5625.3	4988.2	4366.6	3954.8	3719.1	3519.7	3524.9
10°	7288.0	7205.2	6689.8	5788.5	4739.6	3778.7	2986.2	2442.3	2206.6	2131.5	2071.9
12.5°	7531.5	7370.9	6524.0	5148.8	3690.6	2582.2	1815.5	1484.0	1339.0	1292.4	1287.2
15°	7749.1	7495.2	6233.9	4379.6	2683.2	1649.8	1238.0	1129.2	1111.1	1113.7	1111.1
17.5°	7964.0	7593.7	5832.5	3563.7	1823.3	1183.6	1064.5	1038.6	1046.3	1056.7	1054.1
20°	8142.7	7614.4	5319.7	2719.4	1289.8	1038.6	999.7	994.5	1002.3	1010.1	1010.1
22.5°	8337.0	7629.9	4711.1	1882.9	1054.1	966.0	945.3	945.3	955.7	966.0	968.6
25°	8482.0	7544.4	3983.3	1351.9	929.8	896.1	885.8	888.3	898.7	903.9	901.3
27.5°	8505.3	7303.6	3211.5	1036.0	844.3	810.6	800.3	810.6	797.7	805.5	800.3
30°	8526.0	6998.0	2429.3	872.8	766.6	714.8	699.3	683.7	673.4	660.4	657.8
32.5°	8590.8	6638.0	1774.1	784.7	694.1	637.1	600.9	556.8	523.2	512.8	510.2
35°	8619.3	6205.5	1302.7	714.8	629.4	567.2	502.4	440.3	391.1	372.9	385.9
37.5°	8728.0	5785.9	1010.1	663.0	572.4	494.7	411.8	334.1	287.5	277.1	282.3
40°	8950.8	5330.1	846.9	619.0	523.2	427.3	326.3	251.2	220.1	209.8	207.2
42.5°	9308.2	4876.8	753.7	577.6	474.0	360.0	256.4	196.8	170.9	163.2	163.2
45°	9743.3	4441.7	688.9	533.5	422.2	290.1	202.0	158.0	142.4	137.3	137.3
47.5°	10315.7	4061.0	634.5	489.5	365.2	230.5	163.2	137.3	126.9	129.5	132.1
50°	10895.8	3778.7	575.0	440.3	300.4	189.1	139.9	121.7	119.1	121.7	121.7
52.5°	11333.5	3612.9	494.7	372.9	235.7	158.0	124.3	114.0	111.4	106.2	106.2
55°	11924.0	3576.7	393.7	303.0	186.5	132.1	111.4	103.6	95.8	90.6	88.1
57.5°	12682.9	3618.1	303.0	235.7	145.0	108.8	98.4	85.5	75.1	64.7	64.7
60°	13154.2	3524.9	235.7	181.3	106.2	88.1	75.1	62.2	49.2	41.4	38.8
62.5°	13004.0	3131.2	186.5	134.7	75.1	64.7	49.2	41.4	28.5	20.7	18.1
65°	12229.6	2527.8	150.2	93.2	54.4	38.8	25.9	25.9	12.9	2.6	0.0
67.5°	10704.2	1872.5	119.1	62.2	31.1	18.1	12.9	7.8	0.0	0.0	0.0
70°	8712.5	1351.9	93.2	38.8	18.1	12.9	5.2	2.6	0.0	0.0	0.0
72.5°	5532.1	774.4	72.5	23.3	12.9	5.2	0.0	0.0	0.0	0.0	0.0
75°	2139.3	303.0	49.2	15.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	606.0	142.4	28.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	158.0	62.2	15.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.1	25.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.0	10.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	2.6	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)