

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: P652549

Luminaire Tested: **GALN-SA8B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22555.6 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

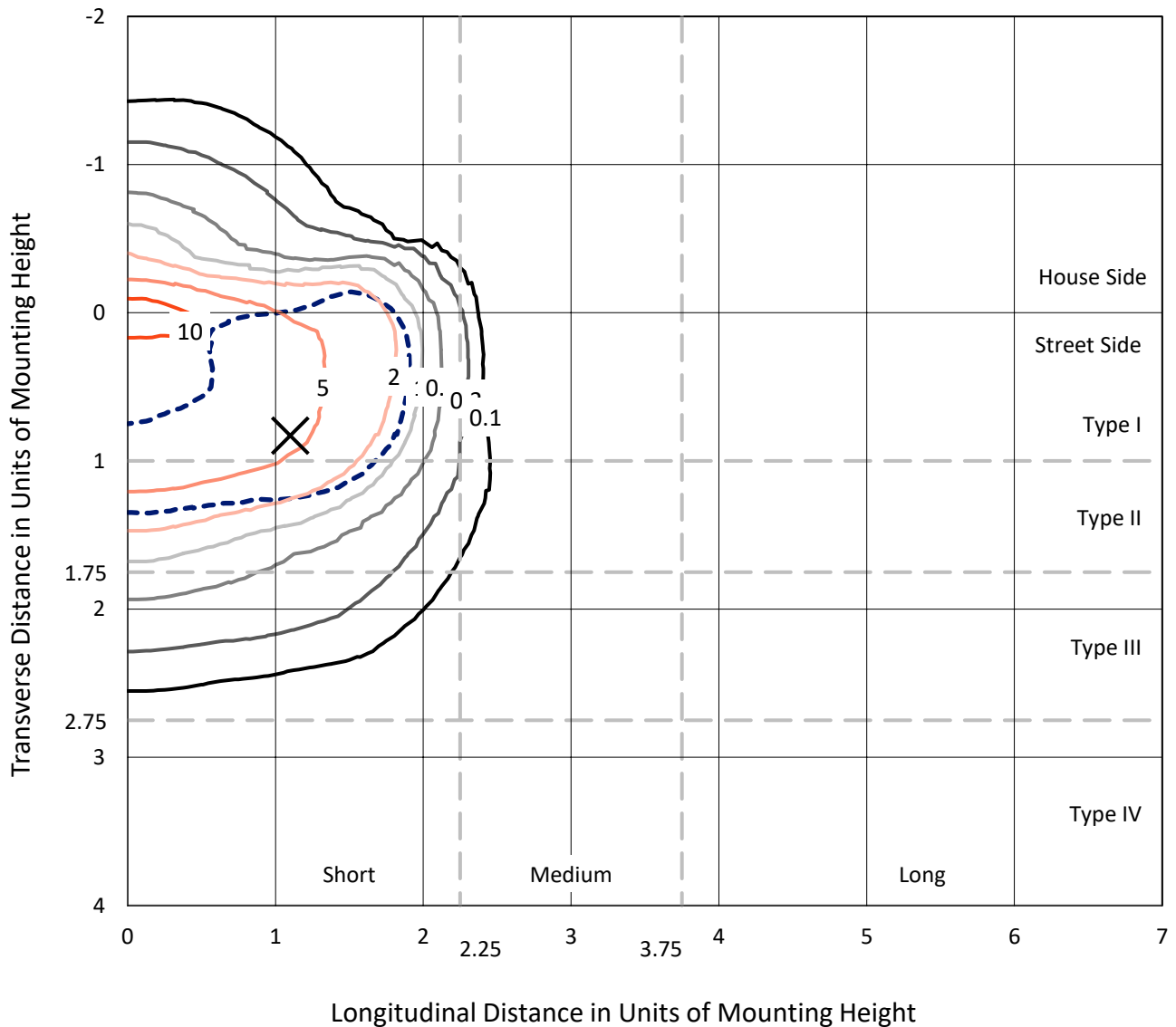
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

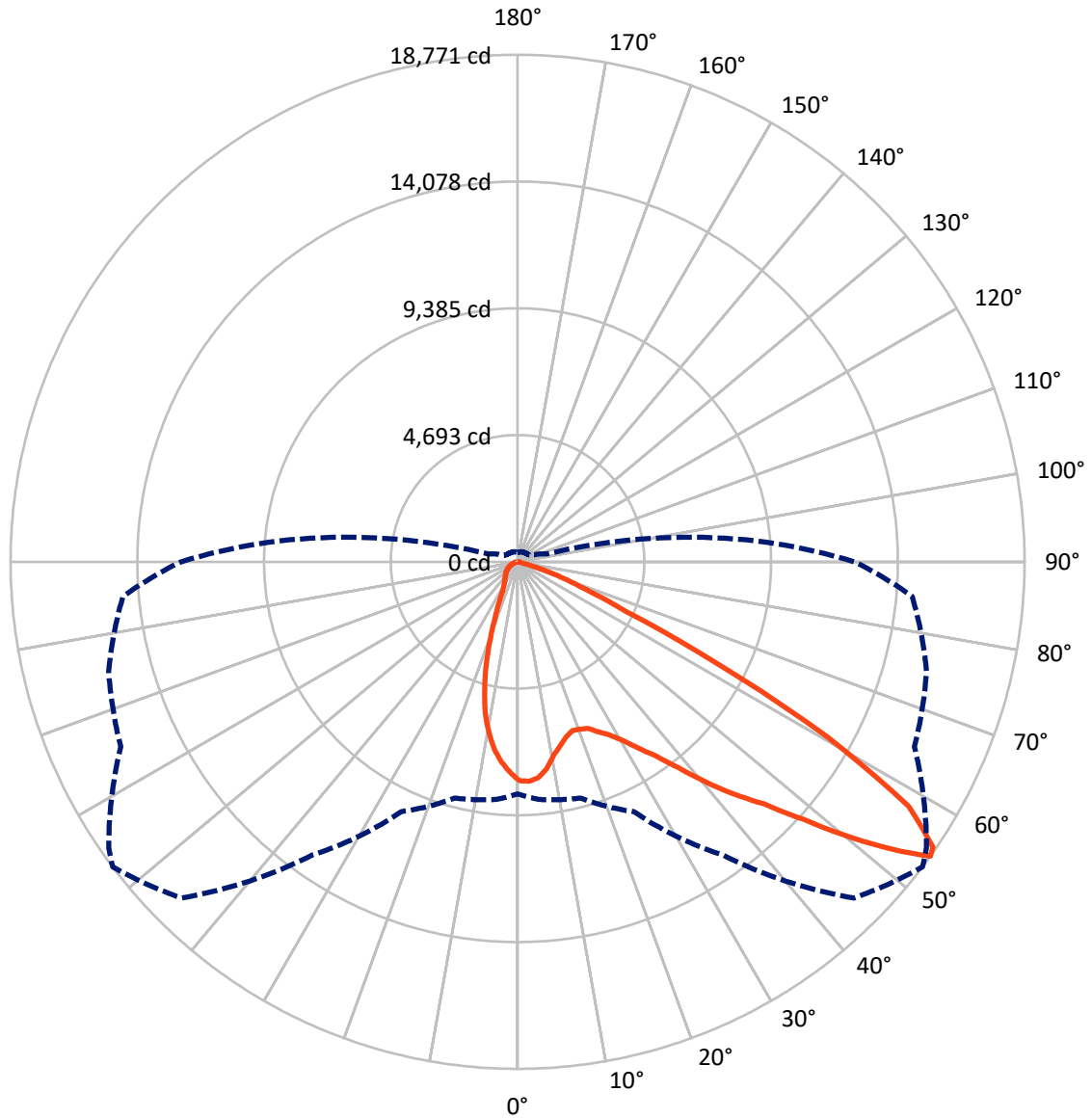
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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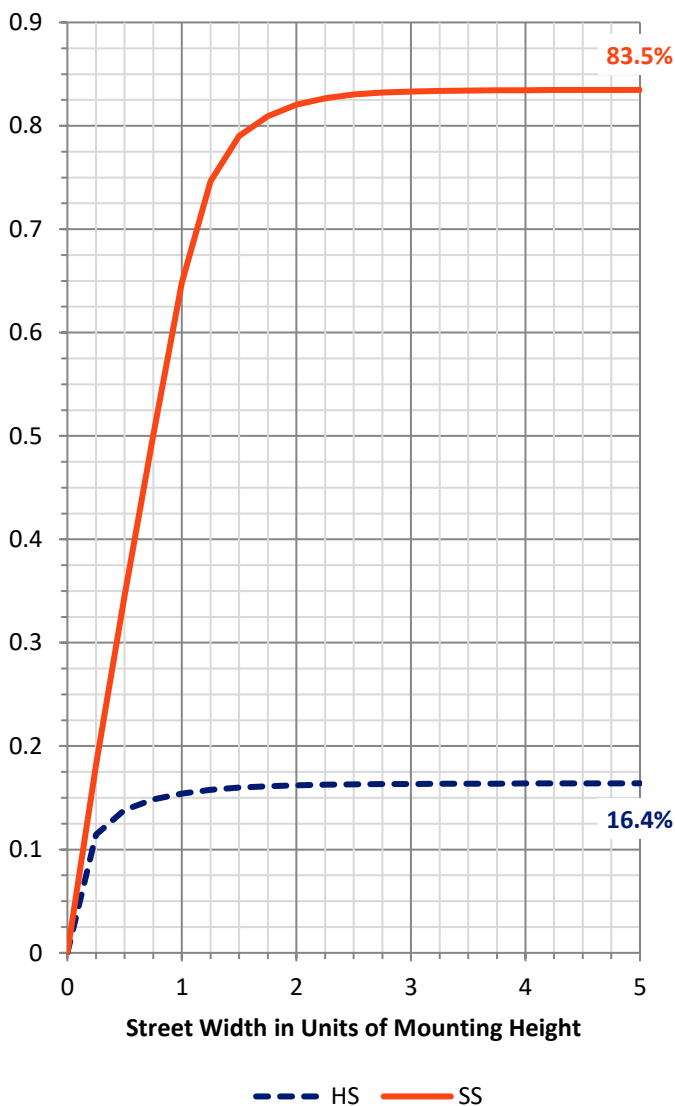
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3731.9	0.0	3731.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18823.7	0.0	18823.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	22555.6	0.0	22555.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.1	3.1
10°-20°	1593.6	7.1
20°-30°	2264.9	10.0
30°-40°	3495.3	15.5
40°-50°	5480.4	24.3
50°-60°	6366.2	28.2
60°-70°	2405.5	10.7
70°-80°	228.8	1.0
80°-90°	25.7	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°	22555.6	100.0
0°-180°	22555.6	100.0

Coefficient of Utilization



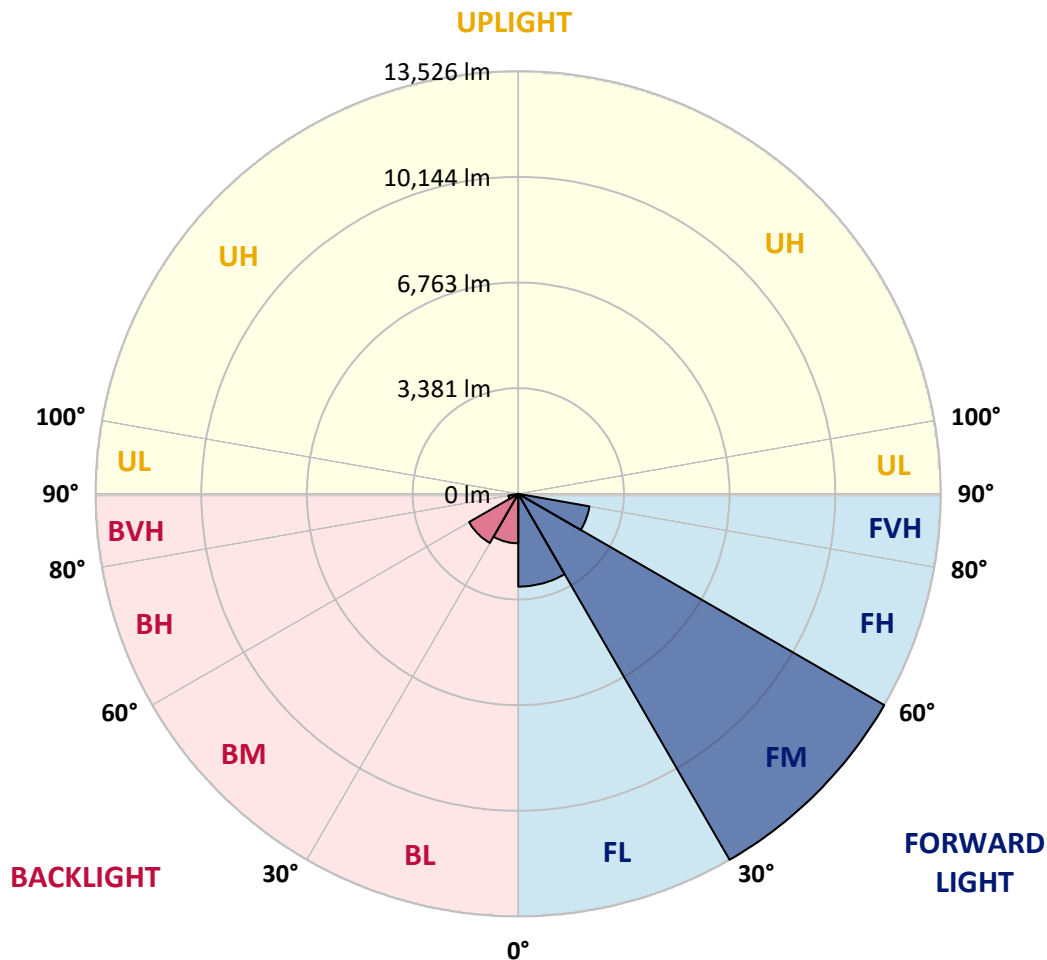
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2970.0	13.2			
FM (30°-60°)	13525.9	60.0			
FH (60°-80°)	2314.5	10.3			G2/5000
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1583.7	7.0	B3/2500		
BM (30°-60°)	1816.0	8.1	B2/2500		
BH (60°-80°)	319.7	1.4	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			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°	53°	55°	65°	75°	85°
0°	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6
2.5°	8059.6	7988.2	8059.6	8068.0	8118.4	8164.6	8135.2	8202.4	8164.6	8122.6	8110.0
5°	7408.3	7504.9	7509.1	7660.4	7626.8	7904.1	8026.0	7992.4	8198.2	8185.6	8156.2
7.5°	6824.1	6786.4	6836.7	7013.3	7236.0	7555.3	7731.8	7727.6	8021.8	8231.9	8210.9
10°	6282.1	6277.9	6382.9	6521.6	6710.7	7046.9	7290.6	7412.5	7870.5	8189.8	8236.1
12.5°	5916.5	5899.7	6013.2	6126.6	6425.0	6685.5	6996.4	7055.3	7580.5	8042.7	8118.4
15°	5677.0	5714.8	5723.3	5941.7	6130.8	6475.4	6719.1	6840.9	7446.0	7925.1	8215.1
17.5°	5635.0	5685.4	5689.6	5870.3	6072.0	6361.9	6576.3	6740.1	7332.6	7983.9	8219.3
20°	5719.1	5689.6	5714.8	5828.3	6025.8	6303.1	6614.0	6668.7	7294.8	8013.4	8265.5
22.5°	5958.6	5950.2	5887.1	5979.5	6118.2	6408.2	6702.3	6786.4	7404.1	8164.6	8303.3
25°	6223.2	6269.5	6210.7	6198.1	6294.7	6580.5	6971.2	7080.5	7769.7	8437.8	8420.9
27.5°	6719.1	6672.9	6672.9	6614.0	6588.8	6727.5	7261.2	7441.8	8177.2	8790.7	8555.4
30°	7193.9	7244.4	7206.5	7227.6	7059.5	7046.9	7672.9	7895.7	8900.0	9328.6	8841.2
32.5°	7946.1	7878.9	7941.9	7887.3	7664.6	7437.6	8231.9	8463.0	9774.0	9946.3	9269.8
35°	8572.2	8542.8	8811.7	8803.3	8442.0	8219.3	8824.4	9168.9	10383.3	10685.9	9774.0
37.5°	9463.1	9408.4	9715.2	9862.2	9538.7	9206.8	9673.2	10072.4	10950.6	11278.4	10290.9
40°	10379.1	10517.8	10929.6	11173.3	10828.7	10387.5	10711.1	10832.9	11328.8	11664.9	10643.9
42.5°	11538.9	11740.6	12160.8	12370.9	12341.5	11862.5	11765.8	11761.6	11601.9	11555.7	10904.4
45°	12652.4	12576.8	13224.0	13682.0	14051.8	13913.1	12782.7	12656.6	12034.7	11719.6	10971.6
47.5°	13139.9	13114.6	13555.9	14371.1	15631.8	15804.0	14261.8	13774.4	12765.9	12408.7	11337.2
50°	12509.5	12639.8	13076.9	13980.3	15913.2	17228.5	16077.1	15421.6	13618.9	13249.1	12202.8
52.5°	10450.5	10538.8	10954.8	12102.0	14955.2	18068.9	17816.8	17438.6	15186.3	14572.8	13711.3
54°	8593.3	8828.6	9055.5	10206.8	13249.1	17602.5	18770.7	18480.7	16207.4	15673.7	14661.1
55°	7483.9	7622.6	7786.5	8933.6	12068.4	16812.5	18661.4	18686.6	16892.3	16018.3	15299.7
57.5°	5466.9	5563.6	5395.4	5903.9	8286.5	13652.5	17068.9	17749.6	17816.8	16535.2	15690.5
60°	4176.8	4218.9	4029.8	4109.6	5151.7	9370.6	13202.9	14022.3	16072.9	14450.9	13291.2
62.5°	3239.8	3248.2	3244.0	3382.7	3550.8	5513.1	8257.1	8984.1	11080.8	10261.5	9026.0
65°	2386.8	2349.0	2416.2	2836.4	3029.7	3466.7	4349.1	4878.6	6021.6	5084.5	3634.8
67.5°	1546.3	1559.0	1626.2	2109.5	2596.8	2659.9	2676.7	2634.7	2638.9	1453.9	911.8
70°	928.6	949.7	928.6	1193.4	1857.3	1907.7	1743.9	1701.8	1327.9	344.6	340.4
72.5°	550.4	521.1	466.4	512.7	773.2	924.4	832.0	827.8	521.1	201.7	201.7
75°	231.1	210.1	172.3	155.5	205.9	197.5	197.5	176.5	138.7	134.5	126.1
77.5°	46.3	46.3	33.6	37.8	50.5	58.9	71.4	71.4	84.0	84.0	79.8
80°	0.0	4.2	12.6	25.2	37.8	54.7	63.0	63.0	71.4	71.4	58.9
82.5°	0.0	4.2	12.6	25.2	33.6	50.5	63.0	63.0	71.4	75.6	63.0
85°	0.0	4.2	12.6	21.0	33.6	42.0	42.0	37.8	29.4	25.2	16.8
87.5°	0.0	0.0	4.2	8.4	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6	8101.6
2.5°	8139.5	8135.2	8034.3	7870.5	7832.7	7694.0	7677.2	7593.1	7639.4	7483.9	7467.1
5°	8072.2	8021.8	7899.9	7794.8	7488.1	7269.6	7097.3	6887.2	6765.3	6786.4	6706.5
7.5°	8168.8	8038.5	7824.2	7458.7	7084.7	6702.3	6496.4	6067.8	5912.3	5681.2	5647.6
10°	8068.0	7971.3	7639.4	7034.3	6517.4	5967.0	5483.7	5008.9	4647.5	4492.0	4458.4
12.5°	8059.6	7891.5	7336.8	6664.5	5916.5	5126.6	4424.8	3832.3	3475.1	3273.4	3227.2
15°	7929.3	7727.6	6996.4	6093.0	5059.3	4076.0	3311.3	2739.7	2466.7	2349.0	2382.6
17.5°	7941.9	7639.4	6656.1	5487.9	4214.7	2991.9	2260.7	1966.6	1895.1	1924.5	1924.5
20°	7929.3	7441.8	6244.3	4790.3	3227.2	2075.8	1659.8	1554.8	1601.0	1693.4	1672.4
22.5°	7862.1	7349.4	5866.1	4055.0	2374.1	1537.9	1332.1	1336.3	1407.7	1521.1	1546.3
25°	7912.5	7143.5	5387.0	3311.3	1731.3	1227.0	1155.5	1185.0	1260.7	1344.7	1361.5
27.5°	7874.7	6996.4	4887.1	2571.7	1264.9	1054.7	1050.5	1084.1	1117.8	1180.8	1180.8
30°	7916.7	6862.0	4395.4	1911.9	1042.1	966.5	949.7	974.9	1008.5	1021.1	1016.9
32.5°	8072.2	6761.1	3828.1	1428.7	920.2	882.5	882.5	882.5	878.3	895.1	899.3
35°	8412.5	6778.0	3328.0	1105.2	840.4	811.0	798.4	781.6	773.2	781.6	785.7
37.5°	8782.3	6769.5	2811.2	941.2	781.6	756.4	727.0	701.7	697.5	705.9	693.3
40°	8946.2	6849.4	2332.2	844.6	727.0	697.5	651.4	630.3	634.5	642.9	634.5
42.5°	9168.9	6874.6	2021.2	769.0	676.5	630.3	600.9	575.7	571.5	584.1	579.9
45°	9164.7	6731.7	1693.4	727.0	630.3	579.9	542.1	521.1	521.1	529.5	533.7
47.5°	9433.7	6710.7	1453.9	689.1	596.7	546.2	500.1	483.2	479.0	479.0	470.6
50°	10059.8	7004.9	1269.0	647.1	554.6	508.5	470.6	449.6	432.8	424.4	420.2
52.5°	11282.6	7920.9	1126.2	596.7	508.5	470.6	437.0	420.2	399.2	378.2	374.0
54°	12467.6	8866.4	1117.8	554.6	470.6	445.4	416.0	407.6	382.4	353.0	344.6
55°	13001.2	9416.8	1147.2	521.1	445.4	428.6	403.4	395.0	369.8	336.1	331.9
57.5°	13442.5	9631.1	1130.4	432.8	403.4	399.2	378.2	365.6	336.1	290.0	281.6
60°	10820.3	7282.2	811.0	382.4	369.8	361.4	344.6	336.1	298.4	247.9	243.7
62.5°	6836.7	4189.4	516.9	336.1	323.5	310.9	290.0	281.6	247.9	197.5	184.9
65°	2912.0	1735.5	348.8	298.4	277.4	256.3	239.5	226.9	197.5	147.1	142.9
67.5°	756.4	617.7	290.0	260.5	231.1	201.7	189.1	168.1	134.5	100.8	96.6
70°	340.4	310.9	243.7	218.5	184.9	155.5	138.7	117.7	88.2	67.2	63.0
72.5°	201.7	197.5	184.9	163.9	138.7	117.7	100.8	79.8	58.9	37.8	37.8
75°	126.1	121.9	126.1	113.5	96.6	88.2	75.6	54.7	33.6	16.8	16.8
77.5°	75.6	75.6	75.6	71.4	67.2	67.2	54.7	33.6	16.8	4.2	4.2
80°	58.9	58.9	63.0	58.9	58.9	58.9	46.3	25.2	8.4	0.0	0.0
82.5°	58.9	63.0	71.4	67.2	58.9	50.5	42.0	25.2	8.4	0.0	0.0
85°	16.8	12.6	21.0	29.4	42.0	37.8	29.4	21.0	8.4	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	4.2	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)