

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: P647178

Luminaire Tested: **GALN-SA9C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29438.5 lumens
Efficiency: N/A
Efficacy: 61.2 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

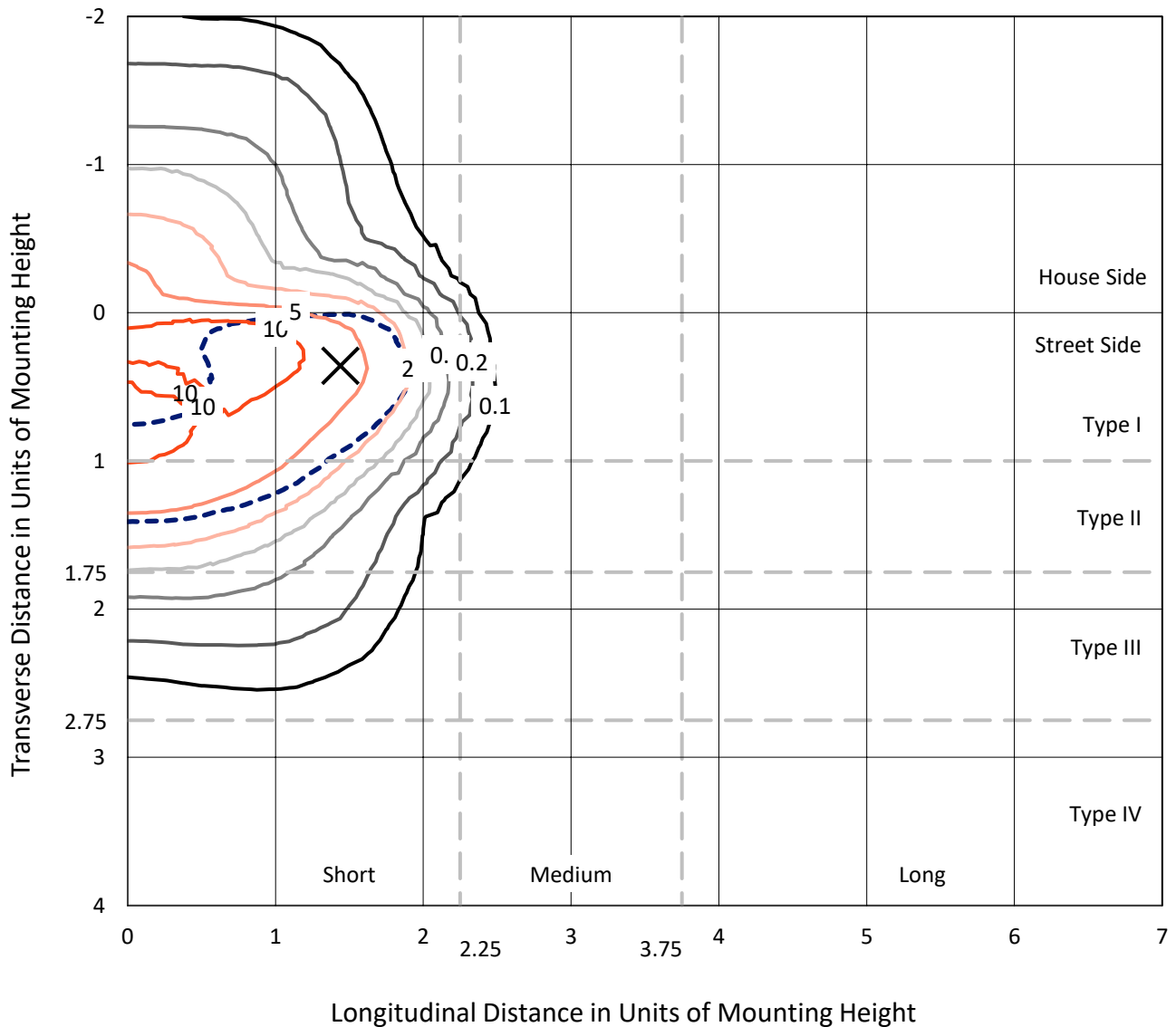
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

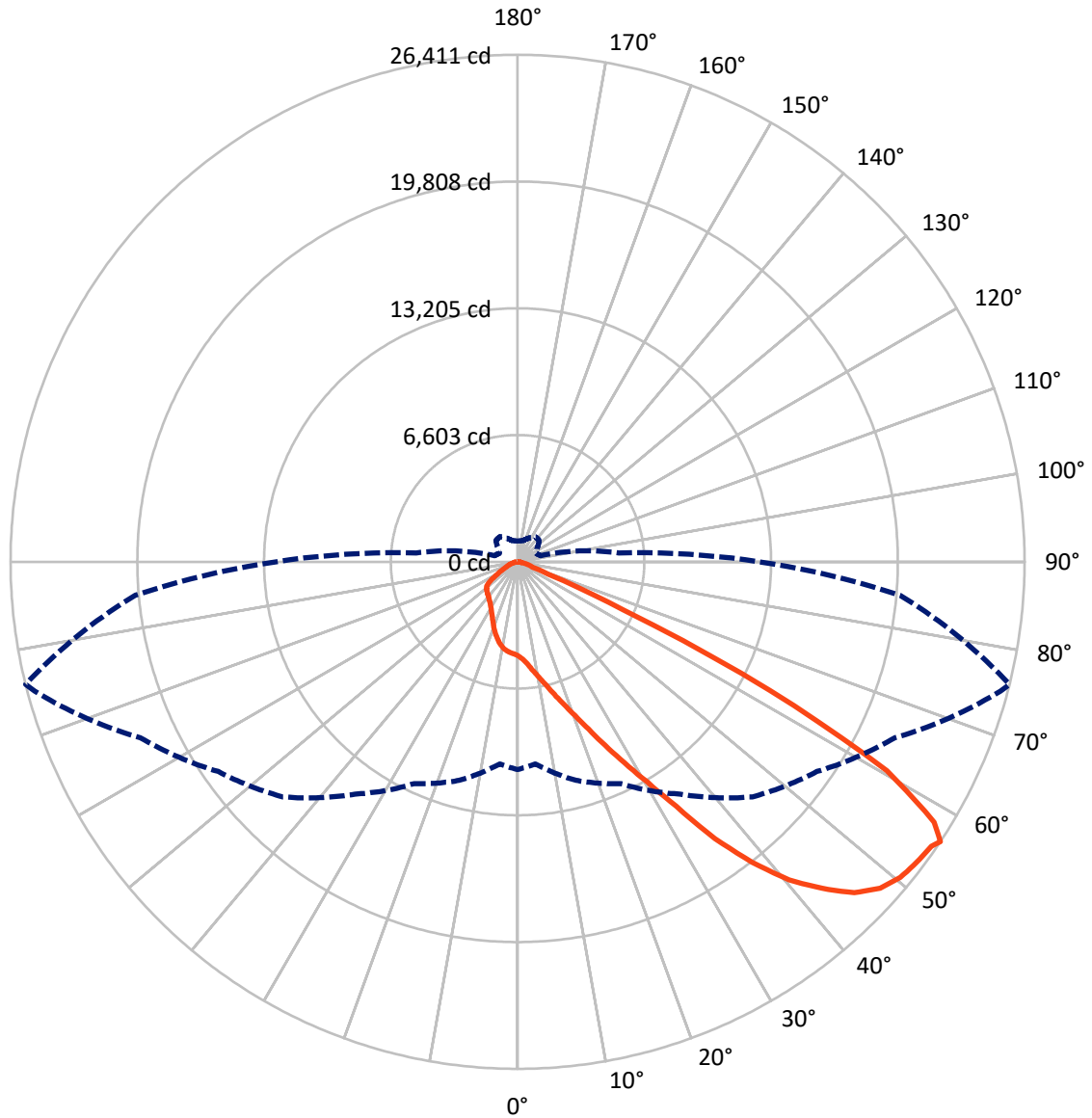
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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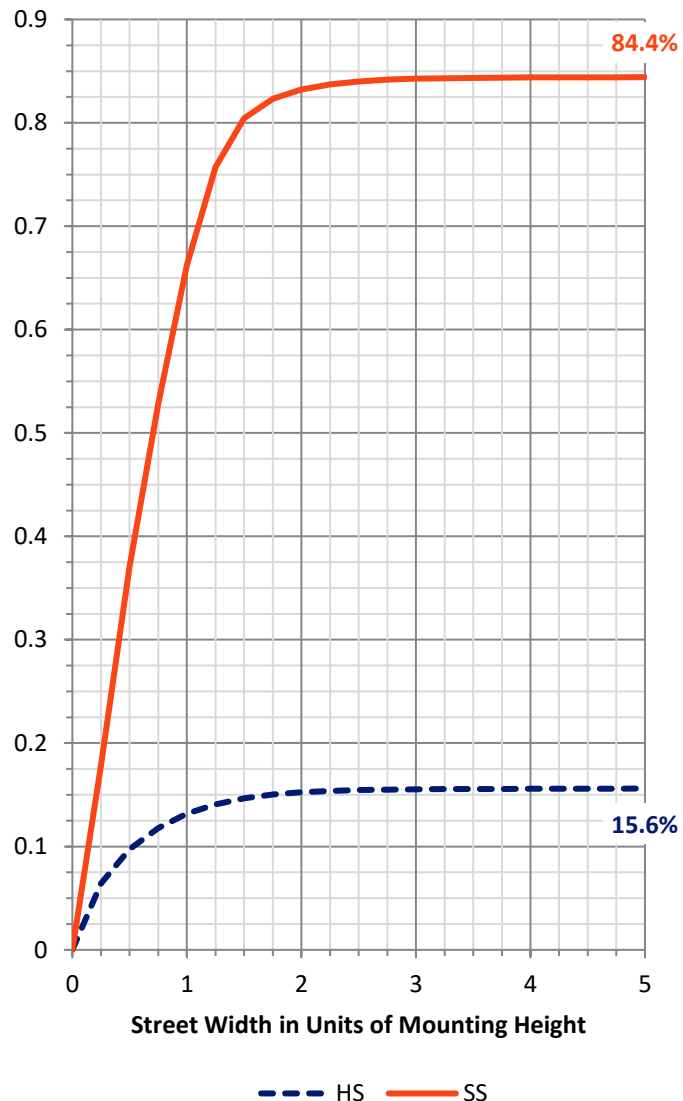
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4624.6	0.0	4624.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	24813.8	0.0	24813.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	29438.5	0.0	29438.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.6	1.7
10°-20°	1585.8	5.4
20°-30°	2875.5	9.8
30°-40°	4958.9	16.8
40°-50°	8055.9	27.4
50°-60°	8491.2	28.8
60°-70°	2594.4	8.8
70°-80°	332.6	1.1
80°-90°	50.6	0.2
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°	29438.5	100.0
0°-180°	29438.5	100.0

Coefficient of Utilization



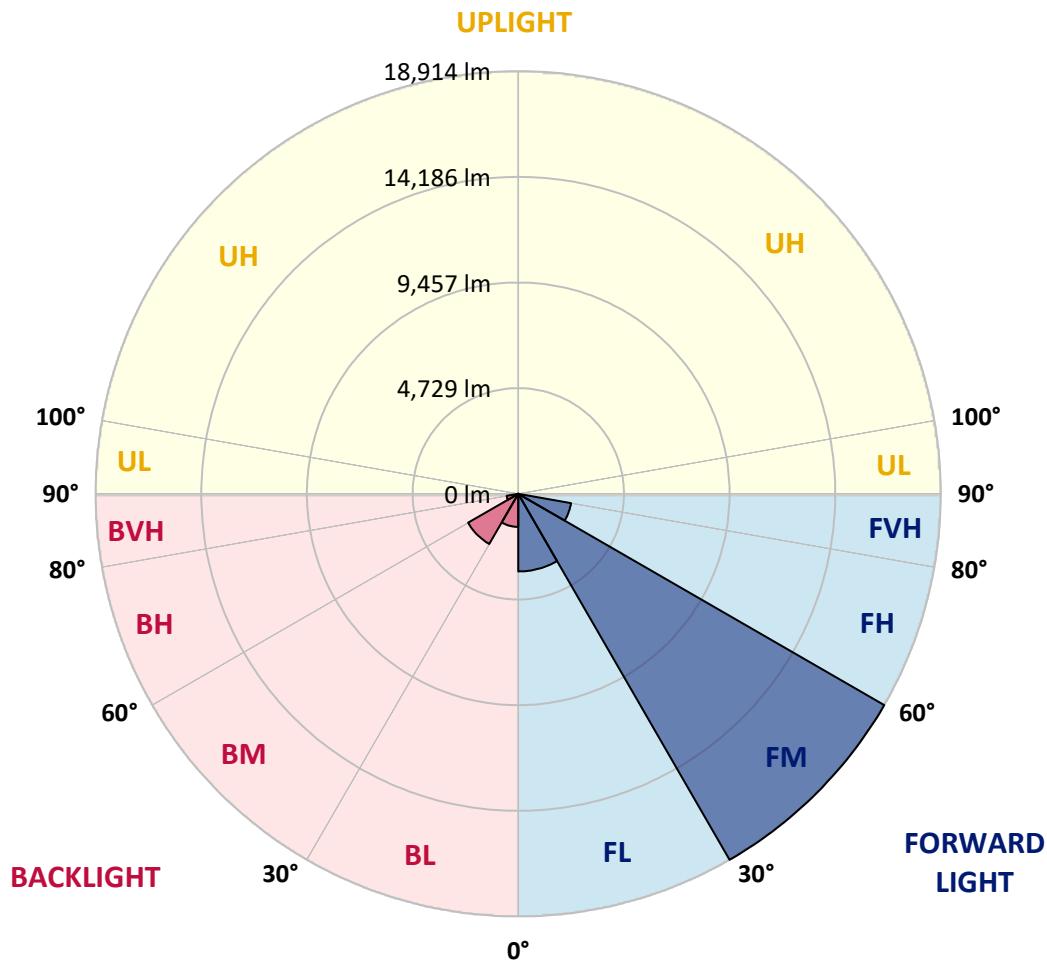
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3475.5	11.8			
FM (30°-60°)	18914.2	64.2			
FH (60°-80°)	2399.4	8.2			G2/5000
FVH (80°-90°)	24.8	0.1			G1/100
BL (0°-30°)	1479.4	5.0	B3/2500		
BM (30°-60°)	2591.8	8.8	B3/5000		
BH (60°-80°)	527.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	25.8	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°	55°	65°	75°	76°	85°
0°	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1
2.5°	5643.5	5513.3	5518.7	5507.9	5491.6	5431.8	5252.8	5225.7	5106.3	5073.7	4965.2
5°	6321.8	6207.9	6272.9	6175.3	6083.0	6028.8	5735.7	5600.1	5410.1	5339.6	5187.7
7.5°	6745.1	6690.8	6669.1	6674.5	6587.7	6452.0	6321.8	6023.4	5768.3	5714.0	5393.9
10°	6951.2	6918.7	6951.2	6935.0	6973.0	6989.2	6761.4	6582.3	6207.9	6115.6	5616.4
12.5°	7000.1	7065.2	7092.3	7162.9	7255.1	7412.5	7396.2	7152.1	6652.8	6593.1	5958.2
15°	7119.5	7173.8	7146.6	7260.6	7434.2	7700.1	7841.2	7803.2	7266.0	7157.5	6354.4
17.5°	7228.0	7130.3	7222.6	7450.5	7624.1	8031.2	8373.0	8530.4	7933.4	7808.6	6717.9
20°	7374.5	7347.4	7331.2	7445.1	7754.4	8297.1	8975.3	9263.0	8682.3	8552.1	7238.8
22.5°	7819.5	7824.9	7814.1	7645.8	7868.4	8481.5	9501.7	10212.6	9577.7	9469.1	7830.3
25°	8405.6	8335.0	8280.8	8145.1	8118.0	8649.7	10033.5	11373.8	10652.1	10576.1	8470.7
27.5°	9024.2	9024.2	8861.4	8736.6	8562.9	9067.6	10521.9	12502.6	11949.0	11845.9	9029.6
30°	9697.1	9735.0	9713.3	9447.4	9338.9	9523.4	11021.1	13945.9	13435.9	13305.6	9952.1
32.5°	10690.1	10608.7	10700.9	10478.4	10158.3	10321.1	11808.0	15237.4	15367.7	15183.2	11162.2
35°	12003.3	11954.5	11894.8	11531.2	11151.3	11281.5	12920.4	16827.4	17793.3	17701.0	12383.1
37.5°	13180.8	13153.7	13104.8	12855.2	12415.7	12573.0	14184.7	18482.5	20159.2	19855.3	14108.7
40°	14418.1	14564.6	14407.2	14184.7	13783.1	14130.4	15671.6	19464.7	22150.8	21781.7	15427.4
42.5°	16094.8	15980.9	16051.4	15644.4	15427.4	15807.2	17163.8	20446.8	23697.3	23257.7	16827.4
45°	17880.1	17885.5	17695.6	17565.4	17001.0	17413.5	18080.9	20989.5	24929.1	24587.2	17885.5
47.5°	19025.1	19019.7	19225.9	19432.1	18851.4	18444.5	18704.9	21505.0	25563.9	25406.5	18270.8
50°	18846.0	18900.3	19166.2	19936.7	20240.6	19692.5	19291.0	21353.0	25851.5	25835.2	18601.8
52.5°	16393.3	16572.4	17017.3	18129.7	19660.0	20338.3	19904.2	21635.2	25992.6	26019.8	19095.6
55°	12480.8	12578.5	13425.0	14776.2	16469.2	18791.8	19660.0	21857.7	26101.1	26150.0	19692.5
56°	10825.8	10565.3	11786.3	12746.7	14770.7	17310.3	19041.4	21684.1	26036.1	26410.5	19991.0
57.5°	8172.2	7998.6	8986.2	10185.4	12133.5	14814.2	17120.5	20864.7	25596.5	25591.1	19562.3
60°	4970.6	4797.0	5556.6	6262.1	7352.8	9121.9	11569.1	16615.7	21640.6	22096.5	15839.8
62.5°	2957.4	3065.9	3814.8	4243.5	4596.2	4780.7	5985.3	9876.1	14439.8	14765.3	9827.3
65°	1969.8	2007.8	2572.2	3277.6	3434.9	2734.9	2436.5	3999.3	6262.1	6061.4	4053.5
67.5°	1215.5	1302.4	1725.6	2463.6	2729.5	1997.0	1155.9	1492.2	1725.6	1725.6	1172.1
70°	738.0	781.4	1150.4	1676.8	1872.2	1286.1	841.1	841.1	830.2	813.9	700.0
72.5°	352.7	379.8	586.1	862.8	879.1	678.3	651.1	710.9	694.6	689.2	580.6
75°	151.9	162.8	206.2	271.3	309.3	287.6	396.1	510.0	526.3	510.0	417.8
77.5°	48.9	54.3	76.0	97.6	103.1	124.8	168.2	211.6	244.2	227.9	206.2
80°	5.4	10.9	21.7	48.9	76.0	97.6	124.8	141.1	157.4	157.4	146.5
82.5°	5.4	5.4	21.7	43.4	70.5	92.2	119.4	135.7	157.4	162.8	151.9
85°	0.0	5.4	16.3	38.0	59.7	59.7	54.3	54.3	38.0	38.0	38.0
87.5°	0.0	0.0	5.4	5.4	5.4	10.9	10.9	10.9	10.9	10.9	10.9
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°	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1	4900.1
2.5°	4943.5	4932.7	4786.1	4693.9	4645.1	4547.4	4487.7	4444.2	4411.7	4373.7	4379.2
5°	5008.6	4970.6	4726.4	4558.2	4357.4	4248.9	4156.6	4080.7	4031.8	4021.0	3999.3
7.5°	5193.1	4992.3	4623.3	4319.4	4064.4	3955.9	3874.4	3825.7	3847.3	3798.5	3836.5
10°	5334.2	5035.7	4498.5	4059.0	3804.0	3722.5	3679.2	3717.1	3771.4	3749.6	3722.5
12.5°	5507.9	5079.2	4297.7	3809.4	3570.6	3510.9	3586.8	3657.4	3765.9	3809.4	3755.1
15°	5703.2	5128.0	4042.7	3521.8	3369.8	3418.7	3548.9	3673.7	3782.2	3836.5	3869.0
17.5°	5942.0	5111.7	3793.1	3293.8	3179.9	3321.0	3478.3	3592.3	3755.1	3836.5	3814.8
20°	6164.4	5057.5	3516.3	3065.9	3071.4	3201.6	3331.8	3516.3	3603.1	3711.7	3673.7
22.5°	6376.0	4959.8	3228.7	2908.6	2908.6	3109.4	3174.4	3293.8	3369.8	3424.1	3418.7
25°	6674.5	4775.3	2990.0	2756.6	2821.8	2952.0	3006.3	3044.2	3011.7	3055.1	3060.5
27.5°	6886.2	4585.3	2794.6	2620.9	2740.3	2838.1	2821.8	2800.0	2724.1	2664.4	2702.4
30°	7114.0	4362.9	2626.4	2528.7	2593.8	2680.7	2615.5	2550.4	2431.1	2333.3	2338.8
32.5°	7439.7	4259.8	2479.9	2420.2	2507.0	2517.9	2447.3	2349.6	2230.3	2138.0	2132.6
35°	8047.4	4194.6	2355.1	2349.6	2365.9	2371.3	2300.8	2181.4	2132.6	2056.6	2083.7
37.5°	8655.2	4162.1	2268.3	2246.6	2241.1	2246.6	2165.2	2051.2	2143.5	2138.0	2148.9
40°	9431.2	4308.6	2143.5	2116.3	2121.8	2121.8	2018.7	1986.1	2148.9	2165.2	2170.6
42.5°	10218.0	4493.1	2062.0	1975.2	1997.0	1997.0	1942.7	1904.6	2018.7	1910.1	1893.8
45°	10901.7	4764.4	1975.2	1834.1	1888.4	1915.5	1899.2	1834.1	1763.6	1579.1	1579.1
47.5°	11124.2	5003.2	1872.2	1698.5	1741.9	1861.3	1812.4	1676.8	1552.0	1400.0	1389.2
50°	11514.9	5263.6	1790.7	1541.1	1633.3	1779.8	1731.1	1595.4	1454.3	1345.7	1351.1
52.5°	11916.5	5562.1	1638.8	1356.6	1470.6	1714.8	1714.8	1562.8	1345.7	1269.8	1258.9
55°	12518.8	5551.2	1367.4	1112.4	1313.2	1617.1	1644.2	1400.0	1204.6	1145.0	1145.0
56°	12605.6	5301.6	1231.8	1041.9	1242.6	1590.0	1595.4	1356.6	1150.4	1085.3	1085.3
57.5°	11954.5	4786.1	1079.8	955.0	1155.9	1541.1	1546.5	1318.7	1107.0	1014.8	1003.9
60°	9197.8	3239.6	900.8	852.0	1047.3	1389.2	1416.3	1199.2	971.3	900.8	895.4
62.5°	5193.1	1796.1	792.2	770.6	900.8	1183.0	1264.4	1047.3	824.8	786.8	797.7
65°	2371.3	987.6	667.4	624.1	727.2	911.6	1020.2	862.8	678.3	634.9	634.9
67.5°	868.3	672.9	569.8	493.8	510.0	591.5	662.0	558.9	450.4	385.3	401.5
70°	618.6	564.4	499.2	428.7	396.1	385.3	379.8	314.8	222.5	173.7	184.5
72.5°	499.2	466.7	417.8	363.5	309.3	260.5	222.5	162.8	103.1	70.5	65.1
75°	358.1	341.9	303.9	260.5	217.0	184.5	151.9	103.1	54.3	27.2	27.2
77.5°	184.5	184.5	179.1	162.8	135.7	108.5	86.8	59.7	32.6	10.9	10.9
80°	141.1	151.9	157.4	141.1	124.8	97.6	70.5	43.4	21.7	5.4	5.4
82.5°	135.7	157.4	168.2	146.5	124.8	92.2	70.5	43.4	21.7	5.4	5.4
85°	32.6	32.6	48.9	54.3	70.5	76.0	59.7	38.0	16.3	5.4	5.4
87.5°	10.9	10.9	10.9	10.9	10.9	10.9	5.4	5.4	5.4	5.4	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)