

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: P647044

Luminaire Tested: **GALN-SA7C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31413.9 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

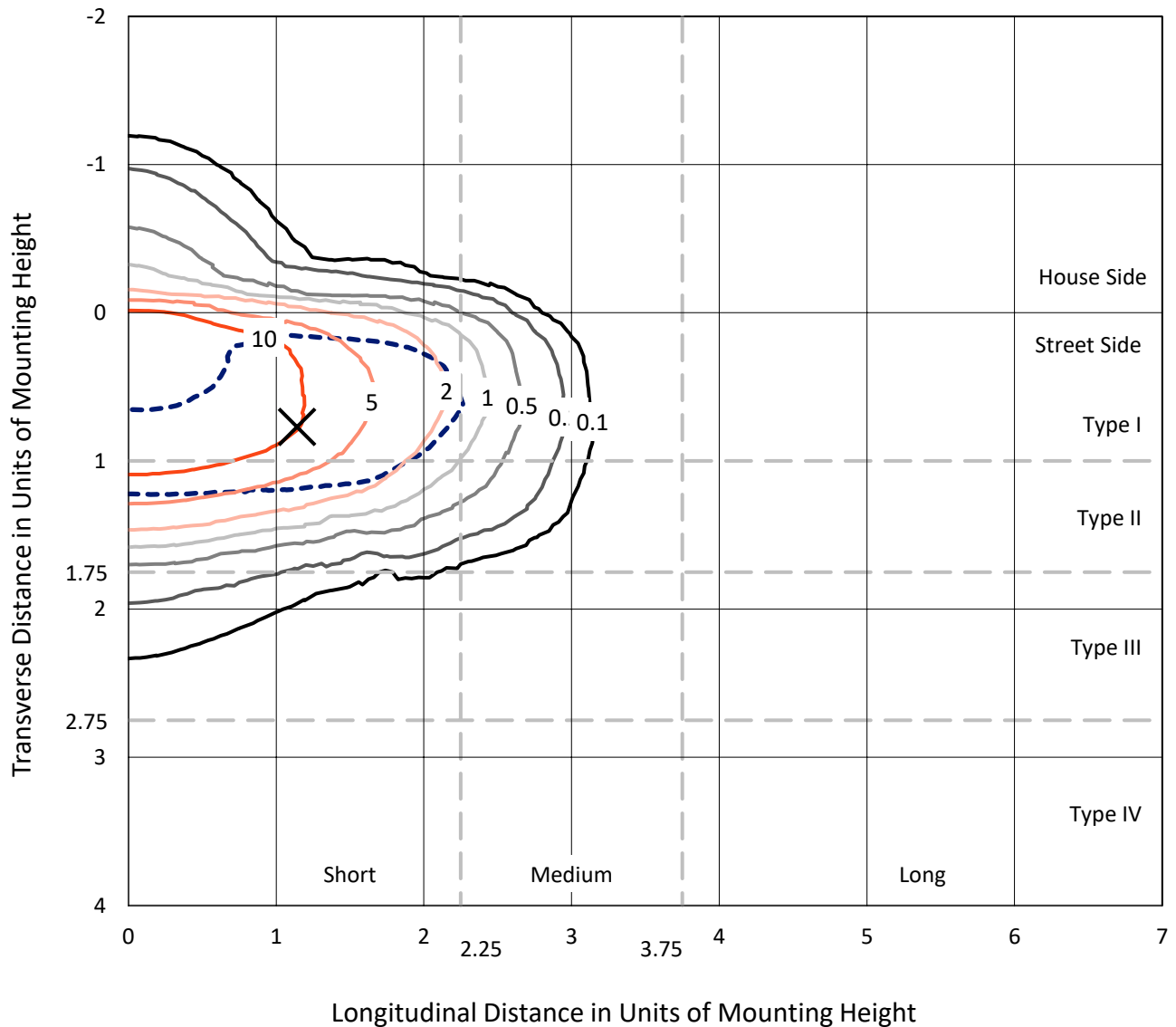
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

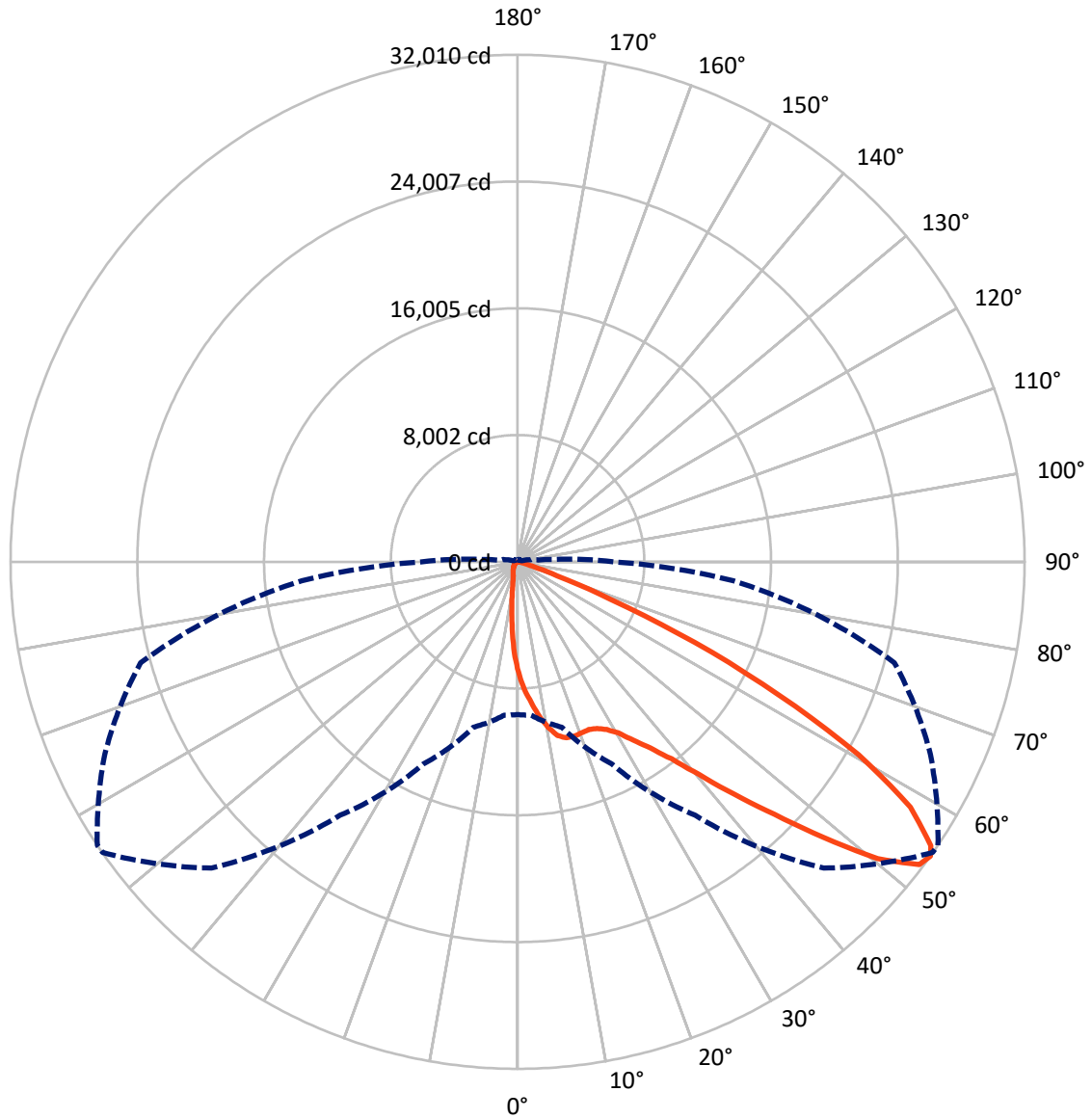
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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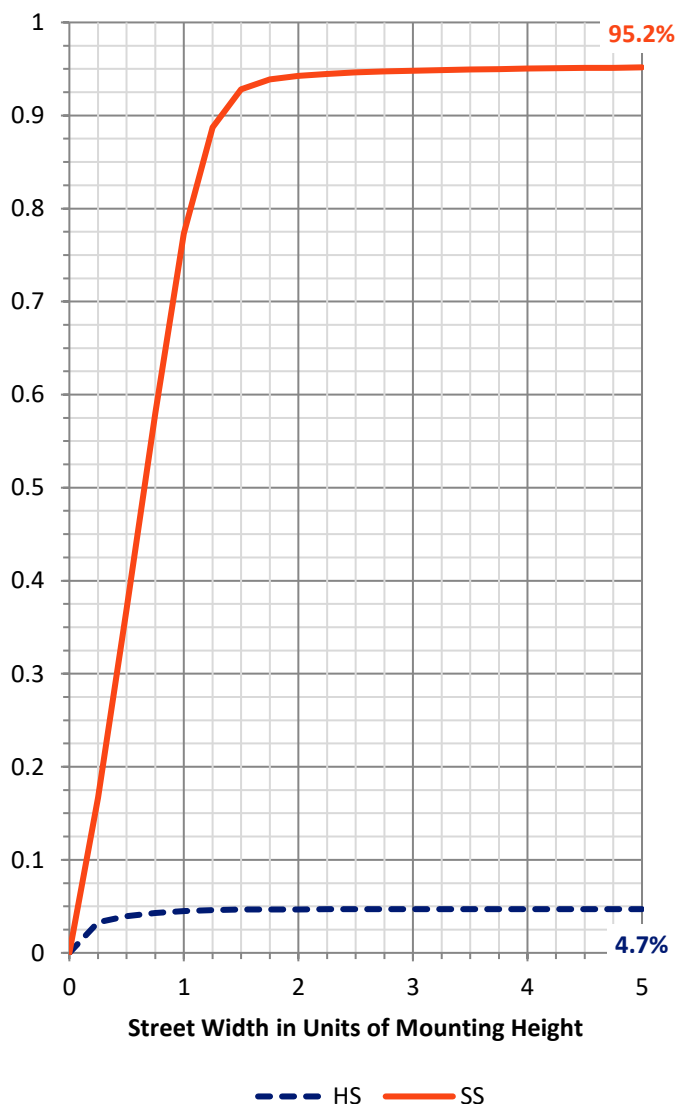
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1485.5	0.0	1485.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	29928.5	0.0	29928.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	31413.9	0.0	31413.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.7	2.0
10°-20°	1667.2	5.3
20°-30°	2887.5	9.2
30°-40°	4984.3	15.9
40°-50°	8483.4	27.0
50°-60°	8395.4	26.7
60°-70°	3831.8	12.2
70°-80°	492.1	1.6
80°-90°	55.5	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°	31413.9	100.0
0°-180°	31413.9	100.0

Coefficient of Utilization



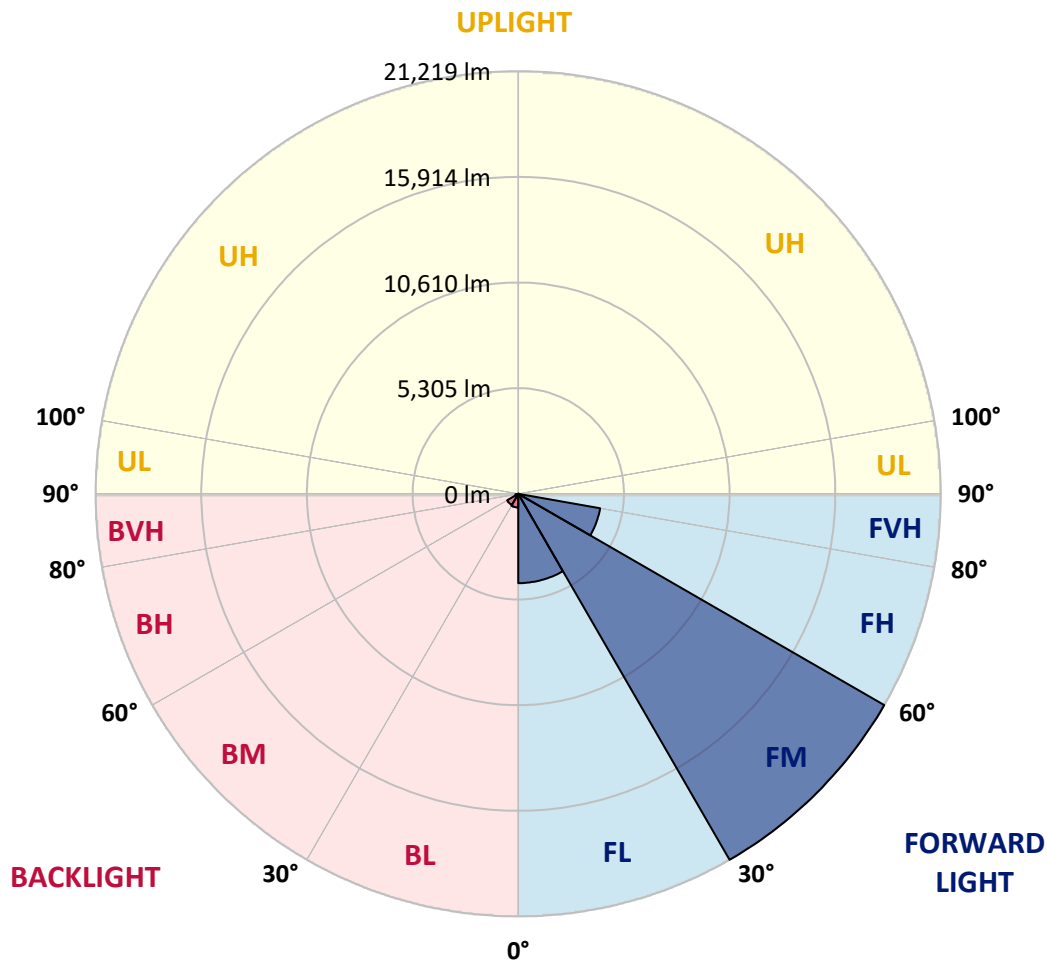
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4484.5	14.3			
FM (30°-60°)	21219.3	67.5			
FH (60°-80°)	4175.2	13.3			G2/5000
FVH (80°-90°)	49.5	0.2			G1/100
BL (0°-30°)	687.0	2.2	B2/1000		
BM (30°-60°)	643.8	2.0	B1/1000		
BH (60°-80°)	148.7	0.5	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3
2.5°	8869.8	8808.4	8723.6	8657.9	8503.1	8280.6	8045.3	8045.3	7818.6	7502.8	7180.7
5°	10230.5	10190.2	10107.6	9938.0	9764.2	9452.7	8980.0	8897.4	8492.6	7920.3	7318.4
7.5°	10783.6	10802.7	10807.0	10762.5	10679.8	10372.5	9904.1	9846.9	9200.4	8433.2	7498.6
10°	10253.8	10347.0	10438.2	10622.6	10883.2	10957.5	10692.5	10633.1	9997.3	8952.4	7693.5
12.5°	9465.4	9516.3	9567.1	9857.5	10380.9	10980.8	11258.4	11256.3	10717.9	9469.6	7941.5
15°	9098.7	9143.2	9147.5	9276.7	9730.3	10603.5	11500.0	11531.8	11421.6	10107.6	8208.6
17.5°	9175.0	9211.1	9181.4	9213.2	9450.5	10188.1	11472.4	11578.5	11991.7	10720.1	8450.1
20°	9673.1	9743.0	9628.6	9539.5	9611.6	10077.9	11379.2	11527.6	12394.4	11317.7	8670.6
22.5°	10567.4	10605.7	10461.5	10217.8	10090.6	10308.9	11353.8	11500.0	12737.8	11807.3	8797.7
25°	11561.5	11548.8	11389.8	11116.4	10849.3	10775.2	11521.2	11652.6	13021.8	12248.2	8835.9
27.5°	12555.5	12593.6	12326.6	11987.5	11667.5	11474.6	11896.4	11993.8	13341.8	12750.5	8882.5
30°	13710.6	13649.1	13386.3	12998.4	12631.8	12362.6	12500.4	12527.9	13782.7	13416.0	9005.4
32.5°	15213.3	15043.7	14749.1	14070.9	13808.0	13352.4	13386.3	13420.2	14318.9	14075.1	9153.8
35°	17252.2	17243.7	16667.2	15753.7	15113.6	14547.7	14399.4	14426.9	15130.6	15054.3	9482.3
37.5°	19706.5	19740.4	19083.4	18163.5	16985.1	16086.5	15781.3	15785.5	16364.1	16406.5	9982.5
40°	21705.1	21794.1	21402.0	20781.0	19617.4	18212.3	17699.3	17652.7	18097.8	18044.8	10696.7
42.5°	22565.6	22648.2	22794.5	23010.6	22370.5	21211.2	20001.0	20064.6	20200.3	19829.4	11497.9
45°	22143.8	22275.2	22849.6	24184.8	24786.7	24396.7	22953.4	22730.9	22156.5	21768.7	12303.3
47.5°	20386.8	20706.8	21666.9	23890.2	25996.9	27315.2	26285.2	25990.6	24114.8	23184.4	12816.2
50°	17498.0	17517.0	18854.4	21696.6	25369.6	29157.0	29686.8	29466.4	25939.7	23979.2	13074.8
52.5°	12684.8	13102.3	14327.3	17618.8	22652.4	28877.2	31855.0	31763.9	27821.7	24386.1	13447.8
54°	9643.4	9723.9	10813.3	14079.4	19530.5	27340.6	31988.5	32009.7	28756.4	24632.0	13668.2
55°	7905.5	7712.6	8857.1	11993.8	17400.5	25982.1	31551.9	31653.6	29176.1	24759.2	13831.4
57.5°	3747.1	3749.2	4624.6	6326.5	10898.1	20174.9	28883.5	29243.9	29222.7	24977.5	14333.7
60°	1896.9	1909.6	2102.5	2920.6	5383.4	13411.8	23881.7	24740.1	26974.0	25009.3	14499.0
62.5°	1326.8	1311.9	1280.1	1405.2	2265.7	6816.1	17779.9	18525.9	22917.4	23799.1	13973.4
65°	1136.0	1104.2	1015.2	996.1	1144.5	2715.0	11074.0	12290.6	17498.0	20607.2	12477.1
67.5°	970.7	958.0	877.4	828.7	809.6	1182.6	5713.9	6354.0	11959.9	14812.7	9450.5
70°	824.4	818.1	769.4	707.9	654.9	707.9	2119.4	2625.9	6665.6	7975.4	4459.3
72.5°	669.8	676.1	684.6	606.1	551.1	502.3	905.0	1053.4	2789.2	2850.7	1559.9
75°	587.1	580.8	580.8	527.7	459.9	373.0	498.1	536.2	854.1	792.6	362.5
77.5°	413.3	398.5	466.3	434.5	383.6	265.0	284.0	301.0	353.9	303.1	169.5
80°	286.1	286.1	298.9	390.0	345.5	192.9	173.8	186.5	209.8	180.2	97.5
82.5°	161.1	165.3	195.0	207.7	201.3	129.3	114.5	116.6	139.8	122.9	61.5
85°	19.1	31.8	112.4	110.2	82.7	57.2	63.6	65.7	86.9	76.3	36.0
87.5°	2.1	4.2	23.3	29.7	21.2	23.3	23.3	23.3	29.7	33.9	25.4
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°	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3	6979.3
2.5°	7006.8	6845.8	6462.2	6017.0	5733.0	5271.0	4881.1	4599.2	4529.2	4393.6	4433.8
5°	6998.4	6663.5	5881.4	5054.8	4173.2	3516.1	3026.5	2640.8	2471.2	2358.9	2280.5
7.5°	7002.6	6479.1	5224.4	3908.2	2854.9	2210.6	1757.0	1521.8	1364.9	1299.2	1307.7
10°	7015.3	6271.4	4461.4	2895.1	1926.6	1428.5	1150.9	1038.5	985.6	977.0	974.9
12.5°	7045.0	6044.6	3732.3	2149.1	1347.9	1038.5	932.6	894.4	877.4	877.4	871.1
15°	7076.8	5794.5	3126.1	1598.0	1038.5	892.3	843.5	824.4	813.9	813.9	811.7
17.5°	7076.8	5506.3	2560.3	1239.9	894.4	820.2	782.1	756.6	748.2	748.2	746.0
20°	7032.3	5171.4	2058.0	998.2	811.7	752.4	714.3	686.7	676.1	671.9	669.8
22.5°	6877.6	4724.2	1638.3	858.4	743.9	693.0	644.3	612.5	604.0	599.8	601.9
25°	6602.0	4219.7	1297.1	754.5	682.5	621.0	578.6	555.3	546.8	546.8	549.0
27.5°	6318.0	3692.1	1027.9	676.1	608.3	553.2	519.3	504.4	502.3	508.6	510.8
30°	6055.2	3162.2	833.0	612.5	542.5	496.0	472.6	468.4	468.4	470.5	472.6
32.5°	5762.7	2698.1	697.3	557.4	489.6	449.3	436.6	436.6	440.8	440.8	445.1
35°	5578.3	2299.6	612.5	504.4	449.3	415.4	406.9	409.0	415.4	423.9	428.1
37.5°	5478.7	1981.7	557.4	462.0	411.2	387.8	379.4	383.6	398.5	413.3	415.4
40°	5487.2	1742.2	512.9	426.0	381.5	356.0	349.7	362.5	377.2	392.1	394.2
42.5°	5580.4	1564.1	470.5	383.6	356.0	320.0	317.9	330.7	337.0	351.8	353.9
45°	5690.7	1434.8	426.0	339.1	309.4	277.7	279.8	290.3	298.9	322.1	326.4
47.5°	5724.6	1345.8	375.1	288.2	254.3	243.7	245.9	252.2	269.2	290.3	292.5
50°	5762.7	1290.7	326.4	243.7	216.2	214.1	216.2	220.4	231.0	239.5	237.4
52.5°	5925.9	1288.6	286.1	212.0	184.4	188.6	190.7	188.6	180.2	167.4	163.2
54°	6078.5	1295.0	267.1	197.1	169.5	175.9	173.8	163.2	142.0	129.3	122.9
55°	6201.4	1301.3	256.4	186.5	161.1	163.2	165.3	144.2	116.6	103.8	99.6
57.5°	6443.1	1286.5	231.0	163.2	142.0	133.5	131.4	95.4	63.6	55.1	50.9
60°	6322.3	1161.4	209.8	139.8	120.8	108.1	89.0	53.0	31.8	23.3	23.3
62.5°	5847.5	985.6	186.5	114.5	99.6	82.7	46.6	29.7	14.8	8.5	6.3
65°	5230.8	828.7	167.4	91.1	78.5	53.0	25.4	19.1	6.3	0.0	0.0
67.5°	3889.2	614.7	142.0	72.0	59.4	33.9	17.0	10.6	2.1	0.0	0.0
70°	1801.5	375.1	120.8	55.1	42.4	25.4	12.7	6.3	0.0	0.0	0.0
72.5°	517.2	235.3	99.6	40.2	29.7	21.2	10.6	4.2	2.1	0.0	0.0
75°	180.2	188.6	74.2	29.7	23.3	14.8	8.5	4.2	2.1	0.0	0.0
77.5°	108.1	152.6	46.6	25.4	19.1	12.7	8.5	4.2	2.1	2.1	0.0
80°	61.5	101.7	29.7	21.2	17.0	10.6	6.3	4.2	2.1	2.1	0.0
82.5°	33.9	48.8	23.3	19.1	14.8	10.6	6.3	4.2	2.1	2.1	2.1
85°	27.6	25.4	19.1	17.0	12.7	8.5	6.3	2.1	0.0	0.0	0.0
87.5°	21.2	17.0	17.0	17.0	12.7	8.5	6.3	2.1	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)