

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: P534174

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40900 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

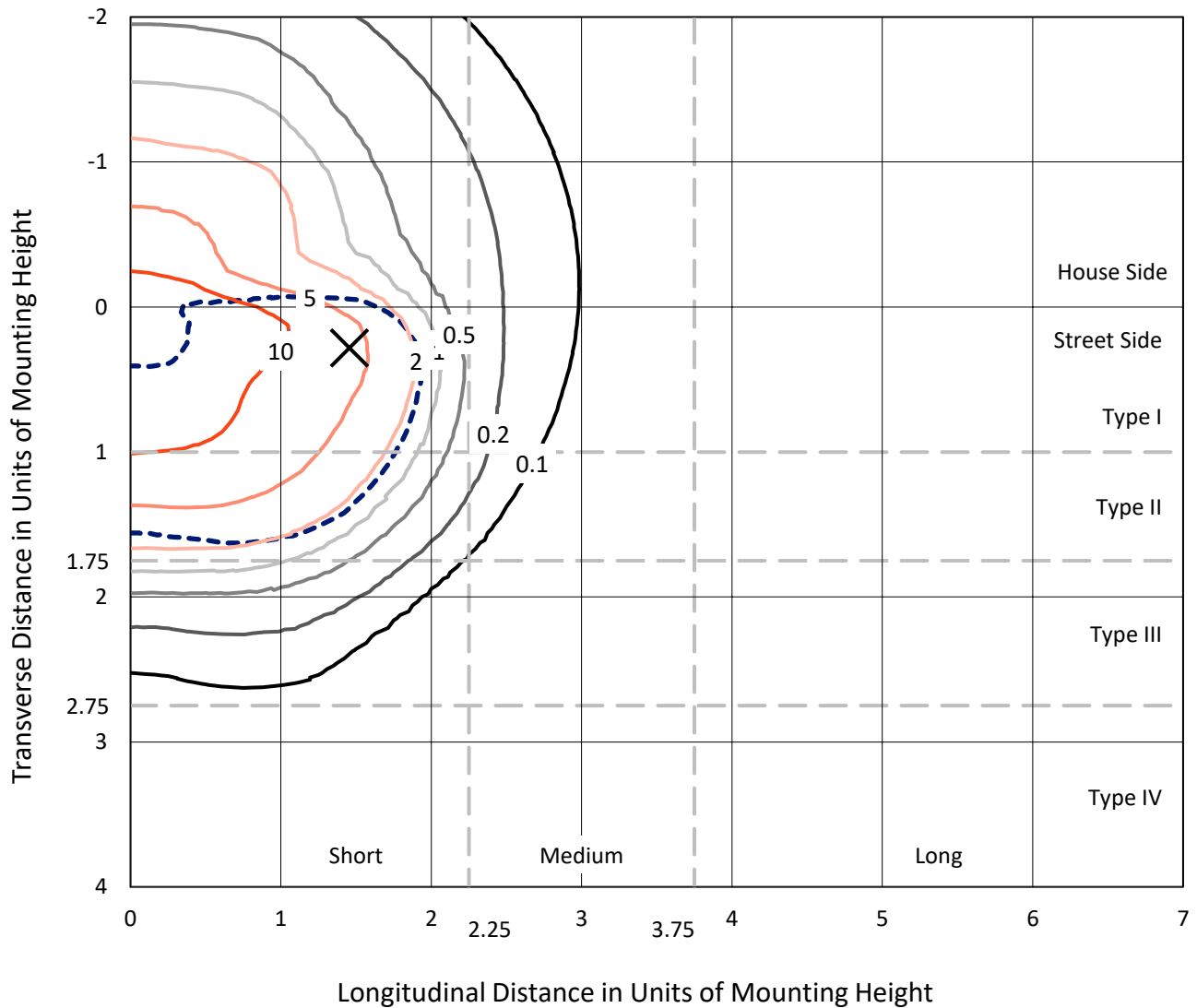
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

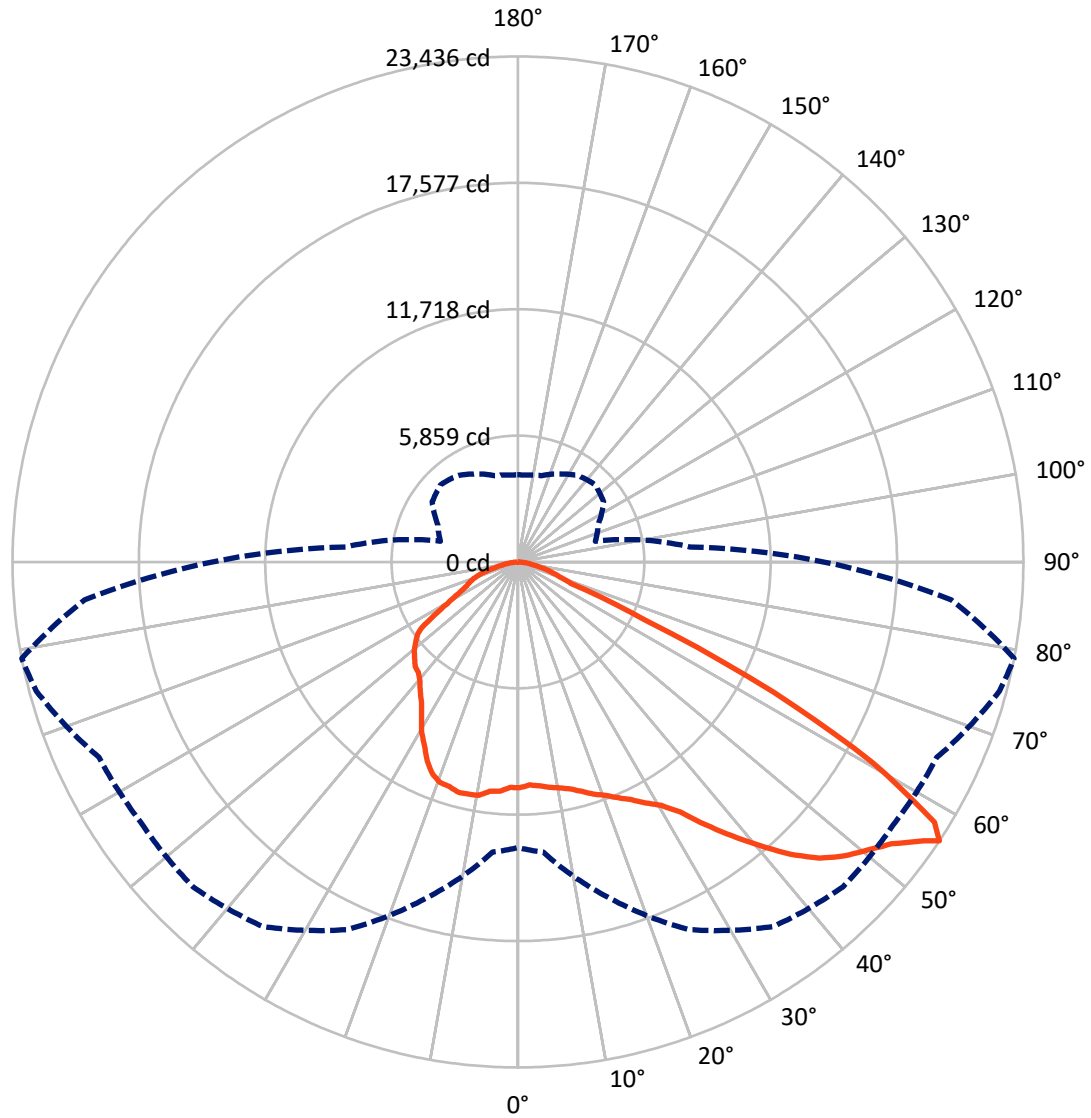
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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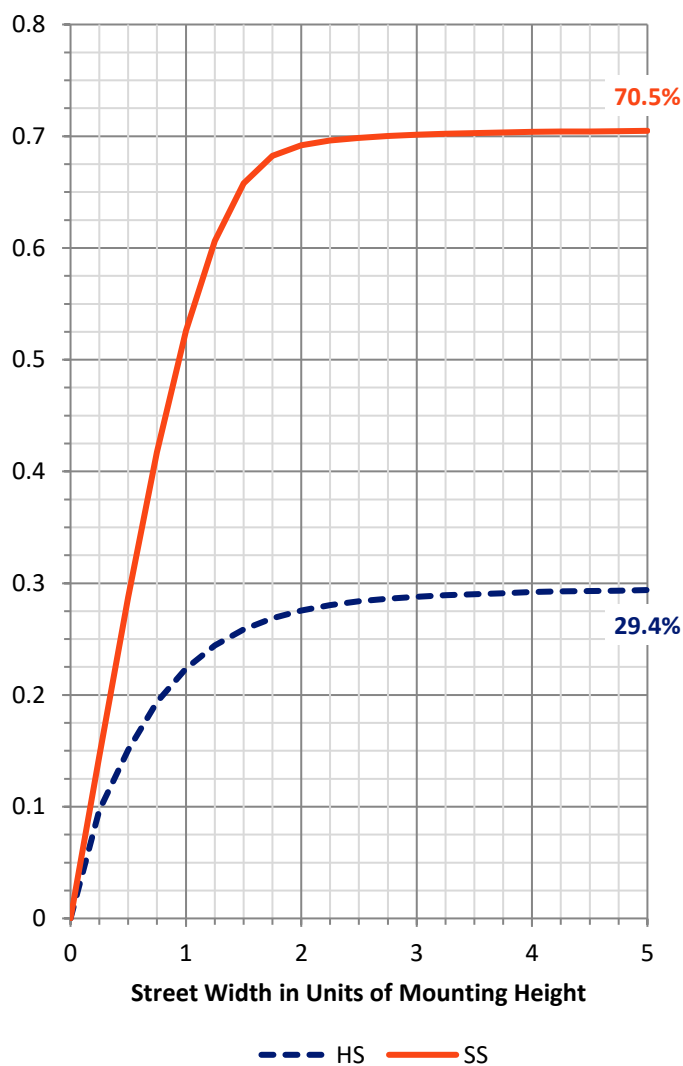
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12078.7	0.0	12078.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	28821.3	0.0	28821.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	40900.0	0.0	40900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.4	2.3
10°-20°	2603.8	6.4
20°-30°	4454.6	10.9
30°-40°	6827.3	16.7
40°-50°	9227.0	22.6
50°-60°	10597.6	25.9
60°-70°	4830.7	11.8
70°-80°	1191.0	2.9
80°-90°	216.5	0.5
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°	40900.0	100.0
0°-180°	40900.0	100.0

Coefficient of Utilization

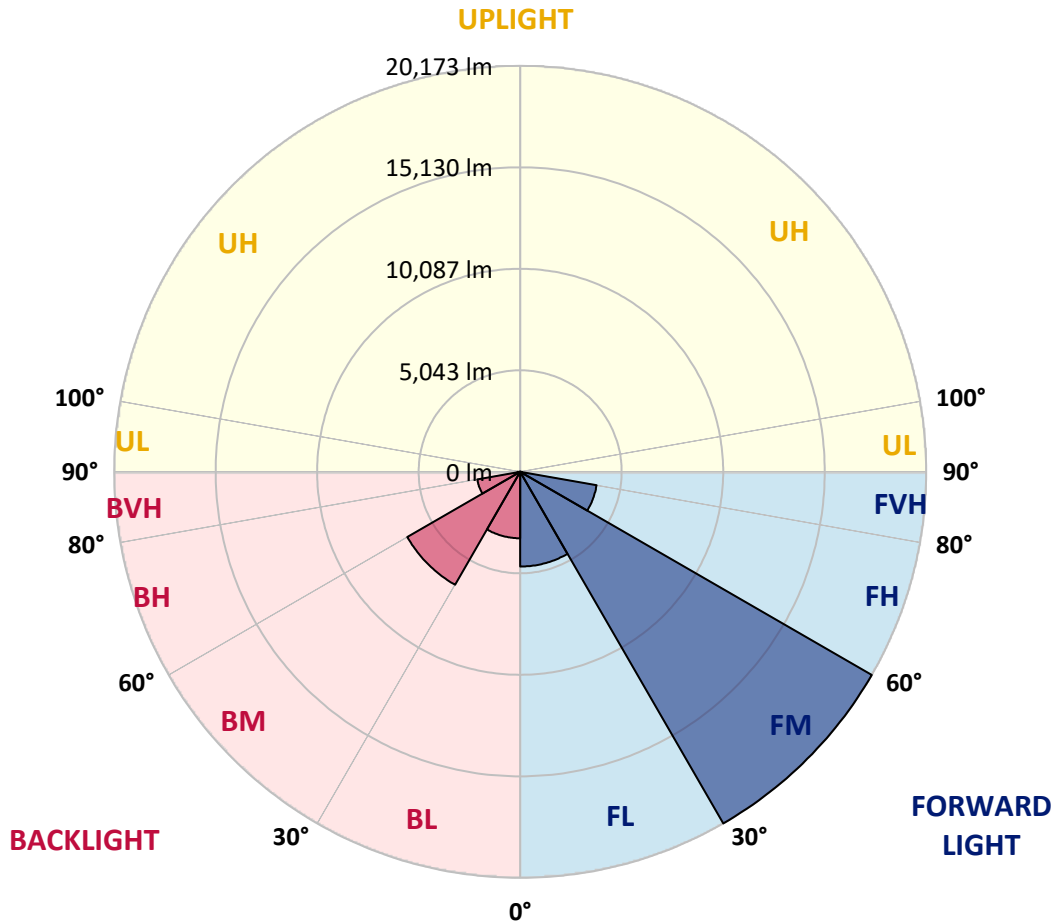


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4705.9	11.5			
FM (30°-60°)	20173.1	49.3			
FH (60°-80°)	3855.9	9.4			G2/5000
FVH (80°-90°)	86.4	0.2			G1/100
BL (0°-30°)	3304.0	8.1	B4/5000		
BM (30°-60°)	6478.8	15.8	B4/8500		
BH (60°-80°)	2165.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	130.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7
2.5°	9955.2	9929.7	9990.9	10036.7	10092.8	10164.1	10199.8	10220.1	10398.5	10352.6	10490.2
5°	9741.2	9675.0	9720.9	9756.5	9853.3	9939.9	10036.7	10189.6	10352.6	10423.9	10592.1
7.5°	9552.7	9517.1	9506.9	9532.3	9664.8	9776.9	9945.0	10169.2	10434.1	10551.3	10648.1
10°	9241.9	9191.0	9267.4	9435.5	9471.2	9705.6	9899.2	10220.1	10449.4	10653.2	10938.5
12.5°	9104.4	9053.4	9068.7	9165.5	9415.2	9639.3	9868.6	10230.3	10714.3	10795.9	11178.0
15°	9323.5	9272.5	9287.8	9262.3	9501.8	9619.0	9980.7	10434.1	10897.7	11035.3	11442.9
17.5°	9822.7	9827.8	9761.6	9705.6	9649.5	9899.2	10148.8	10556.4	10969.1	11315.5	11621.2
20°	10775.5	10607.3	10474.9	10159.0	10072.4	10179.4	10495.3	10887.6	11259.5	11544.8	11891.2
22.5°	11509.1	11524.4	11335.9	10816.2	10627.7	10673.6	10943.6	11264.6	11672.2	11875.9	12273.3
25°	12573.9	12466.9	12263.1	11850.5	11427.6	11463.3	11662.0	11952.4	12064.5	12207.1	12640.2
27.5°	13547.0	13577.6	13175.1	12787.9	12263.1	12161.3	12517.9	12568.8	12380.3	12650.4	12798.1
30°	14535.4	14510.0	14245.0	13791.6	13277.0	13297.4	13455.3	13205.7	12945.9	13093.6	13195.5
32.5°	15559.5	15269.1	15258.9	14851.3	14459.0	14270.5	14076.9	14199.2	13796.7	13827.2	13730.4
35°	16379.7	16420.5	16186.1	15895.7	15702.1	15371.0	14841.1	15060.2	14983.8	14948.1	14530.3
37.5°	16975.8	16817.9	16935.1	16838.3	16654.9	16242.2	15691.9	15900.8	15936.5	16109.7	15625.7
40°	17464.9	17398.7	17709.5	17760.4	17633.1	16741.5	15753.1	16374.6	16909.6	17286.6	16710.9
42.5°	17699.3	17841.9	18168.0	18560.3	18275.0	17322.3	16069.0	16736.4	17928.6	18524.6	17740.0
45°	18015.2	17831.8	18315.8	19034.1	19039.2	17811.4	16374.6	17225.5	18723.3	19589.5	18443.1
47.5°	17694.2	17785.9	18285.2	19197.2	19431.5	18325.9	17200.0	17918.4	19599.6	20369.0	19095.3
50°	16975.8	17159.2	18071.2	19018.8	19727.0	18871.1	18147.6	18667.3	20409.7	20995.6	19202.2
52.5°	16226.9	16328.8	17755.3	19156.4	19859.5	19574.2	19416.2	19701.5	21398.1	21703.8	19334.7
55°	14189.0	14673.0	16710.9	19095.3	20506.5	20842.8	20720.5	21138.3	22519.0	22824.6	20058.2
56°	13246.4	13501.2	16084.2	18809.9	20633.9	21306.4	21245.3	21433.8	23115.0	23436.0	20170.3
57.5°	11504.0	11524.4	13715.2	17546.4	20155.0	21444.0	21382.8	21530.6	22997.9	22778.8	19187.0
60°	7198.9	7514.8	9333.6	13496.1	17138.9	19895.1	20241.6	19054.5	19390.8	18927.1	14927.7
62.5°	3729.4	3683.5	4891.0	7891.8	11376.7	14245.0	14566.0	14510.0	13990.3	13312.7	9751.4
65°	1859.6	1869.8	2557.6	3907.7	5828.4	7458.8	8355.4	8452.2	7071.6	6506.0	4626.1
67.5°	1350.1	1401.1	1839.2	2389.5	2746.1	3072.2	3765.0	3693.7	2797.0	2659.5	2465.9
70°	1049.5	1095.4	1492.8	1823.9	1655.8	1655.8	1803.6	1864.7	1992.1	2048.1	2114.3
72.5°	764.2	799.9	1141.2	1258.4	1085.2	1166.7	1350.1	1492.8	1625.2	1645.6	1722.0
75°	524.8	555.3	748.9	692.9	652.1	805.0	988.4	1120.9	1217.7	1268.6	1314.5
77.5°	341.4	351.5	428.0	361.7	417.8	519.7	641.9	754.0	850.8	891.6	901.8
80°	152.8	168.1	183.4	229.3	290.4	371.9	458.5	550.2	611.4	626.7	657.2
82.5°	86.6	86.6	112.1	163.0	214.0	270.0	331.2	397.4	468.7	484.0	478.9
85°	45.9	45.9	66.2	96.8	132.5	157.9	152.8	157.9	168.1	193.6	188.5
87.5°	15.3	15.3	20.4	20.4	25.5	30.6	25.5	35.7	45.9	45.9	45.9
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°	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7	10464.7
2.5°	10449.4	10495.3	10434.1	10566.6	10566.6	10541.1	10413.7	10454.5	10485.1	10485.1	10510.5
5°	10648.1	10632.8	10673.6	10515.6	10418.8	10383.2	10174.3	10072.4	9985.8	9980.7	9904.3
7.5°	10760.2	10719.4	10704.1	10587.0	10159.0	9899.2	9450.8	9191.0	9135.0	8936.3	9012.7
10°	10938.5	11014.9	10938.5	10301.7	9705.6	9109.5	8671.3	8268.8	8110.9	7983.5	7907.1
12.5°	11305.3	11269.7	10826.4	9965.4	9129.9	8421.7	7769.5	7346.7	7188.7	7076.7	7066.5
15°	11616.1	11437.8	10760.2	9435.5	8233.2	7479.1	6944.2	6643.6	6572.3	6582.5	6628.3
17.5°	11723.1	11600.8	10413.7	8885.3	7565.8	6679.3	6429.6	6383.8	6450.0	6526.4	6546.8
20°	11891.2	11697.6	10271.1	8136.4	6740.4	6180.0	6164.7	6327.7	6450.0	6562.1	6577.4
22.5°	12242.8	11753.7	9807.5	7428.2	6174.9	6032.2	6180.0	6317.5	6506.0	6597.7	6516.2
25°	12344.7	11631.4	9155.3	6577.4	5818.2	5940.5	6098.5	6287.0	6419.4	6470.4	6506.0
27.5°	12431.3	11442.9	8273.9	6011.8	5706.2	5935.4	6098.5	6256.4	6327.7	6373.6	6414.3
30°	12675.8	11386.8	7509.7	5634.8	5634.8	5833.5	6042.4	6083.2	6180.0	6236.0	6307.3
32.5°	12798.1	10999.6	6725.1	5395.4	5563.5	5884.5	5899.8	5976.2	5981.3	6027.1	5950.7
35°	13119.1	10724.5	5996.6	5222.2	5594.1	5833.5	5910.0	5864.1	5614.5	5492.2	5517.7
37.5°	13353.4	10587.0	5471.8	5201.8	5599.2	5889.6	5930.3	5583.9	5324.1	5120.3	5171.2
40°	13985.2	10245.6	5074.4	5166.1	5645.0	5950.7	5838.6	5461.6	4992.9	4784.0	4748.3
42.5°	14469.2	10001.1	4824.8	5125.4	5680.7	6037.3	5792.8	5217.1	4738.2	4544.5	4595.5
45°	15029.6	9945.0	4692.3	5135.5	5741.8	6083.2	5736.7	5028.6	4519.1	4442.7	4427.4
47.5°	15228.3	9542.5	4549.6	5048.9	5726.5	6067.9	5548.2	4885.9	4437.6	4447.7	4488.5
50°	14897.2	9129.9	4442.7	4870.6	5624.6	5930.3	5252.7	4697.4	4391.7	4519.1	4590.4
52.5°	14474.3	8707.0	4223.6	4631.2	5415.8	5716.3	5115.2	4687.2	4345.9	4305.1	4320.4
55°	14601.7	8360.5	3917.9	4305.1	5079.5	5319.0	4962.3	4590.4	4233.8	4080.9	4131.9
56°	14189.0	8003.9	3719.2	4101.3	4850.2	5064.2	4885.9	4503.8	4142.1	4040.2	4040.2
57.5°	13022.3	6806.6	3459.4	3775.2	4366.2	4621.0	4738.2	4452.8	4040.2	3861.8	3866.9
60°	9603.7	4840.0	3102.7	3326.9	3617.3	3821.1	4366.2	4310.2	3785.4	3663.2	3617.3
62.5°	5920.1	3535.8	2848.0	2934.6	3082.3	3250.5	3810.9	3902.6	3515.4	3382.9	3352.4
65°	3316.7	2705.3	2654.4	2690.0	2761.4	2848.0	3163.9	3367.7	3102.7	2898.9	2888.7
67.5°	2425.1	2420.0	2460.8	2491.4	2521.9	2521.9	2598.3	2679.9	2644.2	2481.2	2465.9
70°	2155.1	2170.4	2200.9	2206.0	2216.2	2180.6	2119.4	2094.0	2134.7	2032.8	2012.4
72.5°	1778.1	1829.0	1864.7	1869.8	1813.7	1767.9	1686.4	1599.8	1569.2	1548.8	1543.7
75°	1365.4	1401.1	1416.4	1411.3	1390.9	1324.6	1227.8	1141.2	1085.2	1024.1	1054.6
77.5°	922.2	973.1	998.6	998.6	968.0	866.1	820.3	754.0	698.0	631.8	641.9
80°	647.0	682.7	723.5	718.4	667.4	616.5	550.2	489.1	443.2	392.3	387.2
82.5°	484.0	504.4	524.8	514.6	478.9	428.0	382.1	326.1	275.1	239.5	239.5
85°	173.2	188.5	229.3	239.5	259.8	259.8	219.1	183.4	147.7	122.3	122.3
87.5°	50.9	50.9	56.0	56.0	50.9	56.0	45.9	50.9	56.0	35.7	35.7
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)