

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: P534094

Luminaire Tested: **GALN-SA9C-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54339 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

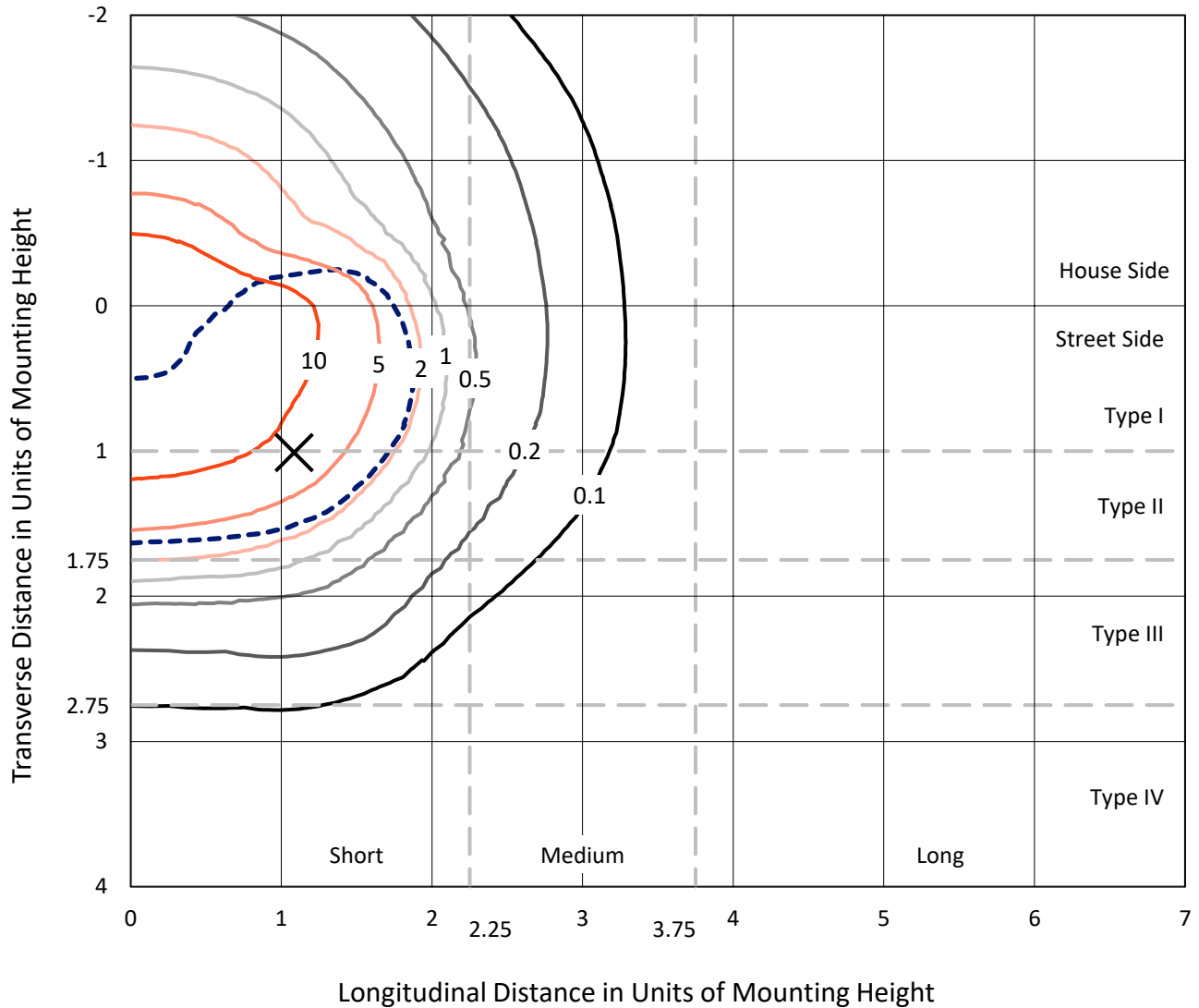
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

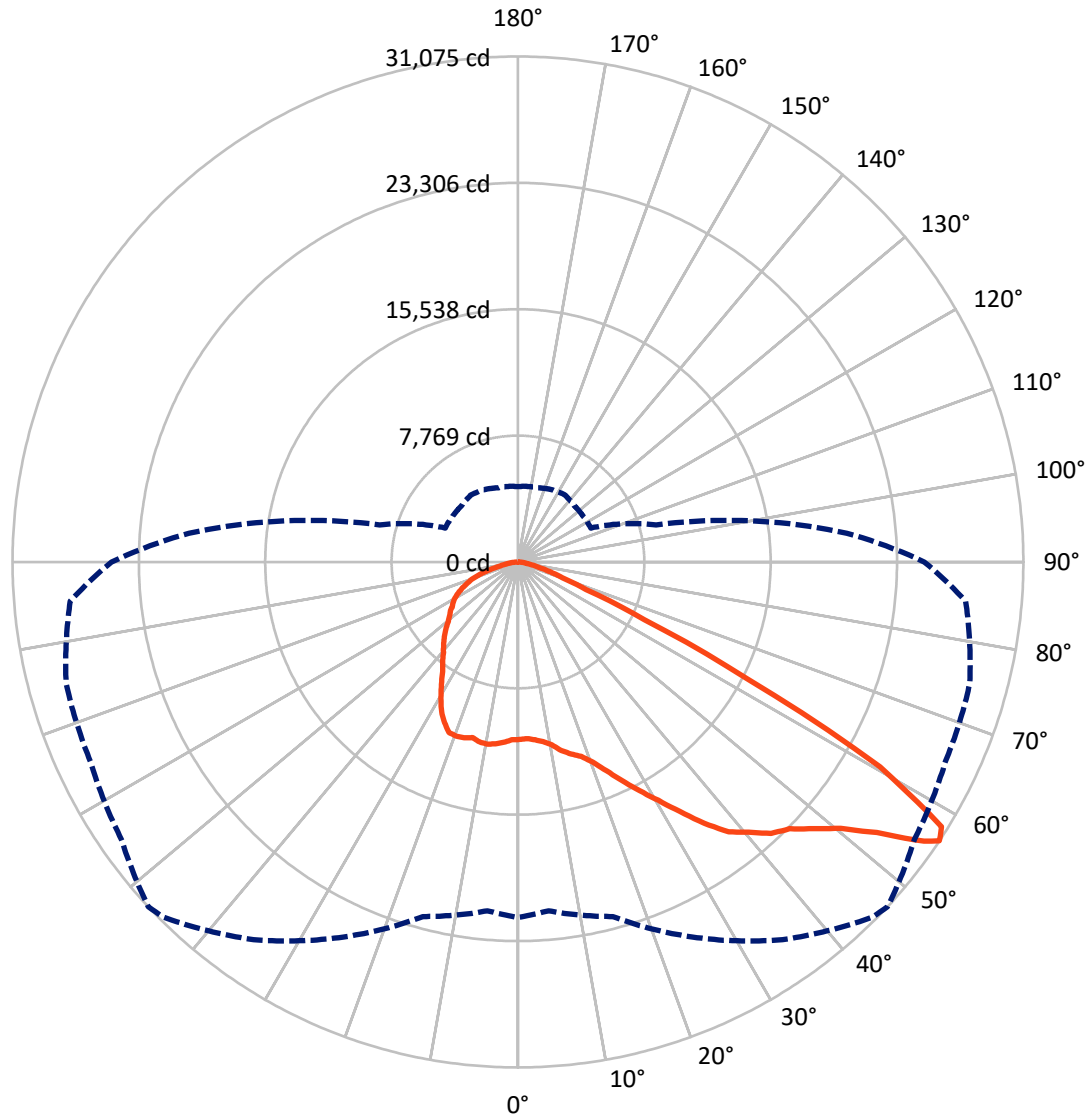
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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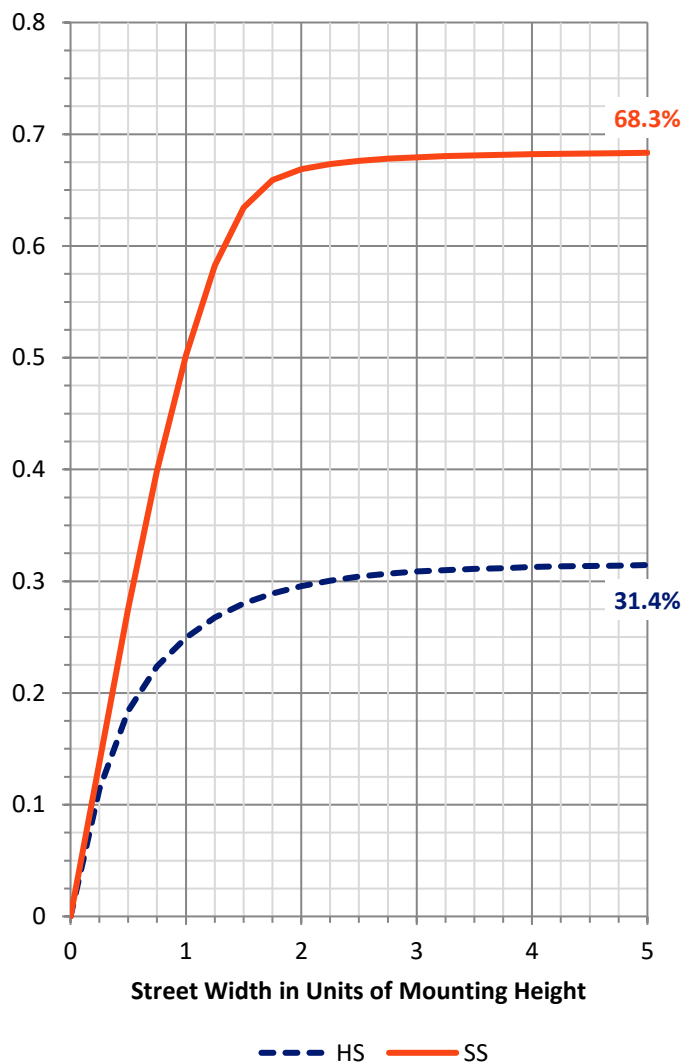
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17219.4	0.0	17219.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	37119.6	0.0	37119.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	54339.0	0.0	54339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1063.5	2.0
10°-20°	3354.9	6.2
20°-30°	5930.6	10.9
30°-40°	8907.6	16.4
40°-50°	12224.8	22.5
50°-60°	14564.3	26.8
60°-70°	6232.6	11.5
70°-80°	1763.8	3.2
80°-90°	296.8	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°	54339.0	100.0
0°-180°	54339.0	100.0

Coefficient of Utilization

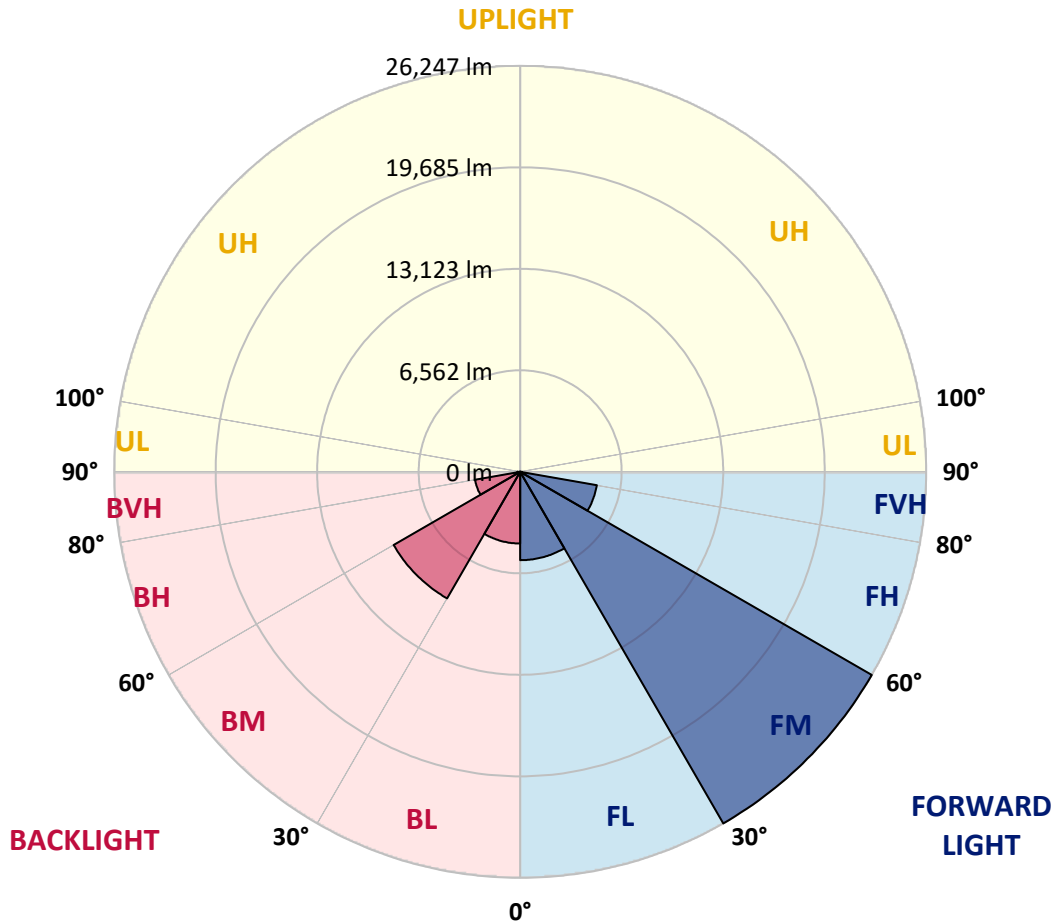


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5712.9	10.5			
FM (30°-60°)	26247.0	48.3			
FH (60°-80°)	5033.8	9.3			G3/7500
FVH (80°-90°)	126.0	0.2			G2/225
BL (0°-30°)	4636.2	8.5	B4/5000		
BM (30°-60°)	9449.7	17.4	B5		
BH (60°-80°)	2962.7	5.5	B4/5000		G4/5000
BVH (80°-90°)	170.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1
2.5°	10873.5	10852.7	10838.8	10949.7	10908.1	10915.1	10873.5	10915.1	10942.8	10880.4	10970.5
5°	10852.7	10915.1	10859.6	10894.3	10984.4	10956.6	10984.4	11067.5	11046.7	11025.9	10998.2
7.5°	11046.7	11053.7	11095.2	11109.1	11136.8	11109.1	11150.7	11226.9	11206.1	11088.3	11102.2
10°	11323.9	11337.8	11344.7	11421.0	11469.5	11476.4	11427.9	11358.6	11351.7	11511.1	11400.2
12.5°	11642.7	11608.1	11691.2	11719.0	11774.4	11836.8	11899.1	11753.6	11843.7	11850.6	11719.0
15°	12107.0	12141.7	12044.7	12044.7	12065.5	12072.4	12245.7	12176.3	12162.5	12086.3	12141.7
17.5°	12800.1	12564.4	12557.5	12460.5	12446.6	12502.1	12564.4	12619.9	12807.0	12654.5	12356.5
20°	13306.0	13361.4	13160.4	13042.6	13063.4	13188.2	13125.8	13375.3	13506.9	13257.5	12966.4
22.5°	14200.0	14012.9	14061.4	13798.0	13818.8	13950.5	13943.5	14200.0	14276.2	13881.2	13458.4
25°	14802.9	14754.4	14796.0	14588.1	14615.8	14719.7	14886.1	15308.8	15184.1	14747.5	13770.3
27.5°	15683.0	15586.0	15551.4	15475.1	15447.4	15724.6	15918.7	16369.1	16279.0	15641.4	14324.7
30°	16584.0	16521.6	16556.2	16244.4	16355.3	16944.3	16999.8	17616.6	17575.0	16452.3	14941.5
32.5°	17207.7	17242.3	17304.7	17131.4	17623.5	18094.7	18281.8	18981.8	19016.4	17845.2	16133.5
35°	18212.5	18094.7	18129.4	18330.4	18559.1	19418.4	19723.3	20187.7	20478.7	19307.5	17277.0
37.5°	18843.2	18967.9	18822.4	19141.2	19737.2	20769.8	21047.0	21525.2	21830.1	20749.0	18836.3
40°	19827.3	19626.3	19730.3	19959.0	20568.8	21913.3	21837.0	22329.1	22426.1	21975.6	20291.6
42.5°	20887.6	20790.6	20645.0	21164.8	21677.6	22654.8	22807.3	22578.6	23070.6	23174.6	22370.7
45°	22155.8	22273.6	22294.4	22308.3	22758.8	23611.2	23403.3	23202.3	23770.6	24526.0	23659.7
47.5°	23334.0	22959.7	23230.0	23604.2	24241.8	24248.7	24491.3	24013.1	24616.0	25288.3	24824.0
50°	23729.0	23548.8	23909.2	24616.0	25600.1	25704.1	25731.8	25052.6	25364.5	25898.1	25225.9
52.5°	23576.5	23514.1	24435.9	25530.8	26972.3	27499.0	27637.6	26799.1	26972.3	26729.8	26113.0
55°	22848.8	23036.0	23964.6	26196.1	28406.9	30035.5	30298.8	29238.5	28136.6	28323.7	27644.5
56°	21850.9	21525.2	22564.7	25440.7	28344.5	30860.1	31075.0	29751.3	29002.9	28760.3	27630.7
57.5°	18538.3	18115.5	19480.8	22890.4	26771.3	30548.3	30707.7	29966.2	28857.3	28365.3	25614.0
60°	10852.7	11060.6	12793.1	15787.0	20652.0	25045.7	25579.3	26119.9	25378.4	23174.6	19065.0
62.5°	5239.2	5107.6	6348.1	9050.8	12585.2	15988.0	15828.6	17346.3	18177.9	16466.1	12037.7
65°	2744.4	2730.5	3465.1	4941.2	6916.3	8399.4	8544.9	9362.7	10506.2	8482.6	6112.4
67.5°	2016.7	2072.1	2439.4	3472.0	4449.2	4539.3	4518.5	4927.4	5038.3	4262.1	3756.2
70°	1580.1	1607.8	1878.1	2640.4	3312.6	2966.1	2903.8	2952.3	3278.0	3416.6	3250.3
72.5°	1143.5	1171.2	1399.9	1781.1	2072.1	2023.6	2065.2	2335.5	2737.4	2883.0	2709.7
75°	762.3	783.1	907.9	1088.0	1226.6	1323.7	1399.9	1711.8	2086.0	2169.2	2086.0
77.5°	526.7	547.5	630.6	769.3	783.1	845.5	873.2	1018.7	1247.4	1351.4	1295.9
80°	298.0	298.0	339.6	395.0	485.1	568.3	582.1	699.9	803.9	873.2	887.1
82.5°	138.6	145.5	180.2	242.6	318.8	395.0	408.9	485.1	561.3	630.6	651.4
85°	69.3	76.2	104.0	145.5	194.0	235.6	228.7	235.6	249.5	235.6	242.6
87.5°	20.8	20.8	27.7	34.7	27.7	34.7	34.7	41.6	48.5	55.4	62.4
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°	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1	10915.1
2.5°	10977.4	10998.2	10859.6	10991.3	10942.8	10935.8	11032.9	11019.0	11053.7	11039.8	10956.6
5°	10984.4	10935.8	11081.4	10949.7	11012.1	11143.8	11053.7	11261.6	11157.6	11226.9	11074.4
7.5°	11199.2	11213.1	11185.3	11240.8	11213.1	11275.4	11226.9	11275.4	11192.3	11199.2	11337.8
10°	11386.3	11344.7	11393.2	11323.9	11372.4	11351.7	11240.8	11206.1	11233.8	11199.2	11289.3
12.5°	11732.8	11656.6	11621.9	11538.8	11483.3	11275.4	11102.2	11005.1	11136.8	11157.6	11116.0
15°	12086.3	12093.2	11933.8	11746.7	11400.2	11088.3	11129.9	11164.5	11164.5	11220.0	11116.0
17.5°	12308.0	12308.0	12162.5	11788.3	11434.8	11254.6	11213.1	11102.2	11005.1	10991.3	10984.4
20°	12696.1	12578.3	12245.7	11781.3	11421.0	11337.8	11025.9	10762.6	10561.6	10492.3	10485.4
22.5°	13139.6	12841.6	12377.3	11795.2	11400.2	11282.4	10700.2	10305.2	9944.8	9792.4	9813.2
25°	13548.5	13070.3	12453.6	11732.8	11323.9	10755.7	10104.2	9556.7	9182.5	9057.8	8995.4
27.5°	13832.7	13312.9	12453.6	11788.3	11039.8	10166.6	9501.3	8801.3	8475.6	8392.5	8406.3
30°	14213.8	13617.8	12668.4	11670.4	10471.5	9404.3	8607.3	8149.9	7955.9	7886.6	7935.1
32.5°	15107.8	14414.8	12966.4	11386.3	9799.3	8642.0	7997.4	7741.0	7456.9	7318.3	7269.8
35°	16078.0	15170.2	13257.5	10908.1	9043.9	7948.9	7547.0	7311.4	6971.8	6819.3	6847.0
37.5°	17450.2	16140.4	13278.3	10118.1	8226.1	7560.8	7193.5	6826.2	6549.0	6313.4	6244.1
40°	19300.6	17464.1	13229.7	9286.5	7567.8	7103.4	6833.2	6375.8	6063.9	5897.6	5932.2
42.5°	20929.2	19016.4	13028.8	8344.0	6971.8	6791.6	6486.7	6036.2	5731.3	5558.0	5544.2
45°	22301.4	20159.9	12647.6	7540.1	6472.8	6445.1	6091.6	5745.1	5502.6	5343.2	5412.5
47.5°	23569.6	21081.6	12072.4	6736.1	6015.4	6070.8	5731.3	5516.4	5364.0	5218.4	5211.5
50°	24027.0	21067.8	11566.5	6070.8	5648.1	5620.4	5606.5	5377.8	5218.4	5093.7	5149.1
52.5°	24789.3	21303.4	11019.0	5613.5	5315.5	5322.4	5370.9	5204.6	5024.4	4948.2	5017.5
55°	25884.3	21338.1	9813.2	5079.8	5038.3	5086.8	5086.8	4975.9	4823.4	4761.0	4726.4
56°	24990.3	20305.5	8801.3	4941.2	4899.6	4899.6	5031.3	4906.6	4719.5	4671.0	4629.4
57.5°	23049.8	17789.8	7366.8	4774.9	4712.5	4809.6	4878.9	4747.2	4573.9	4504.6	4546.2
60°	15897.9	12037.7	5537.2	4414.5	4414.5	4573.9	4629.4	4435.3	4359.1	4352.2	4296.7
62.5°	9279.5	7013.4	4331.4	4088.8	4102.7	4234.3	4275.9	4165.0	4068.0	4185.8	4241.3
65°	4920.4	4185.8	3714.6	3742.3	3749.2	3853.2	4033.4	4026.4	4019.5	4054.2	4061.1
67.5°	3562.1	3479.0	3375.0	3347.3	3361.1	3437.4	3617.6	3756.2	3749.2	3666.1	3603.7
70°	3174.0	3056.2	2993.8	3000.8	2945.3	3035.4	3181.0	3271.1	3111.7	3014.6	2973.1
72.5°	2640.4	2605.8	2564.2	2571.1	2460.2	2439.4	2273.1	2273.1	2231.5	2203.8	2252.3
75°	2016.7	2002.8	2023.6	1989.0	1871.2	1746.4	1649.4	1559.3	1420.7	1365.2	1337.5
77.5°	1275.2	1316.7	1365.2	1289.0	1240.5	1150.4	1053.4	963.3	852.4	790.0	790.0
80°	866.3	900.9	935.6	921.7	866.3	783.1	706.9	609.9	533.6	485.1	478.2
82.5°	658.4	686.1	734.6	679.2	623.7	554.4	492.0	422.7	353.4	298.0	298.0
85°	235.6	270.3	298.0	325.7	346.5	353.4	304.9	249.5	201.0	159.4	152.5
87.5°	62.4	69.3	76.2	69.3	69.3	69.3	76.2	69.3	62.4	48.5	48.5
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)