

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: P531260

Luminaire Tested: **GALN-SA6C-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531260
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-SA6C-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 33111 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

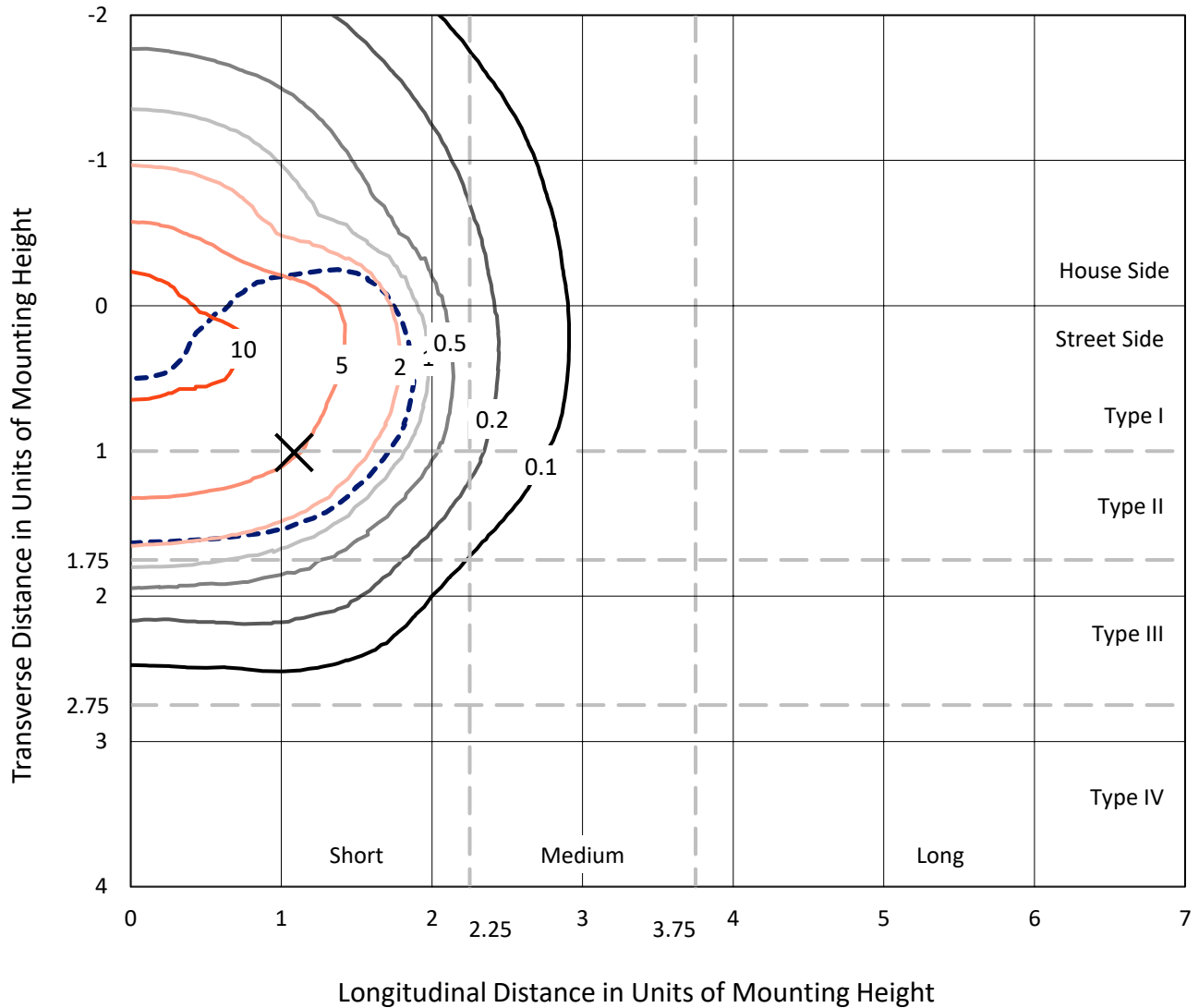
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

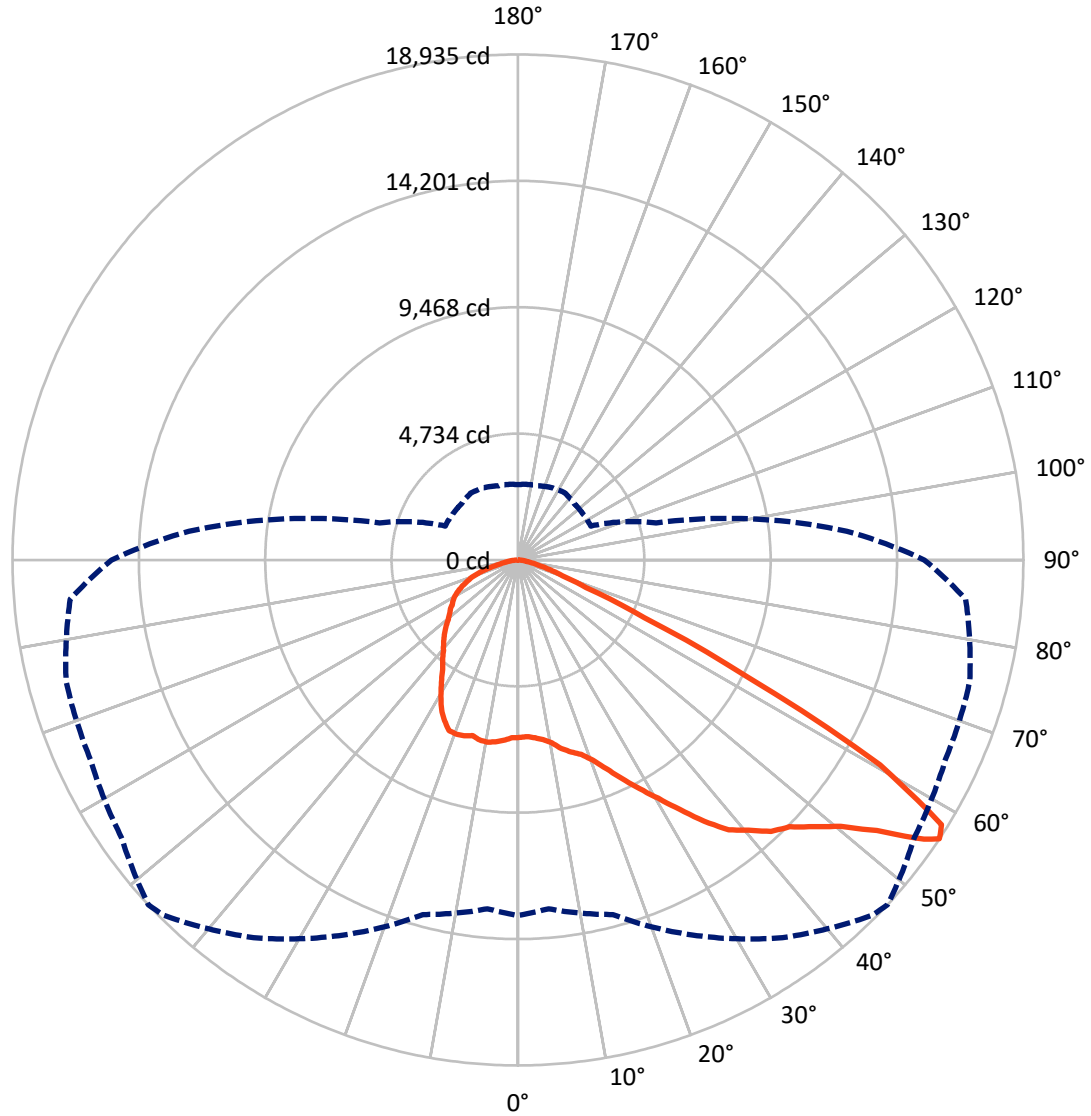
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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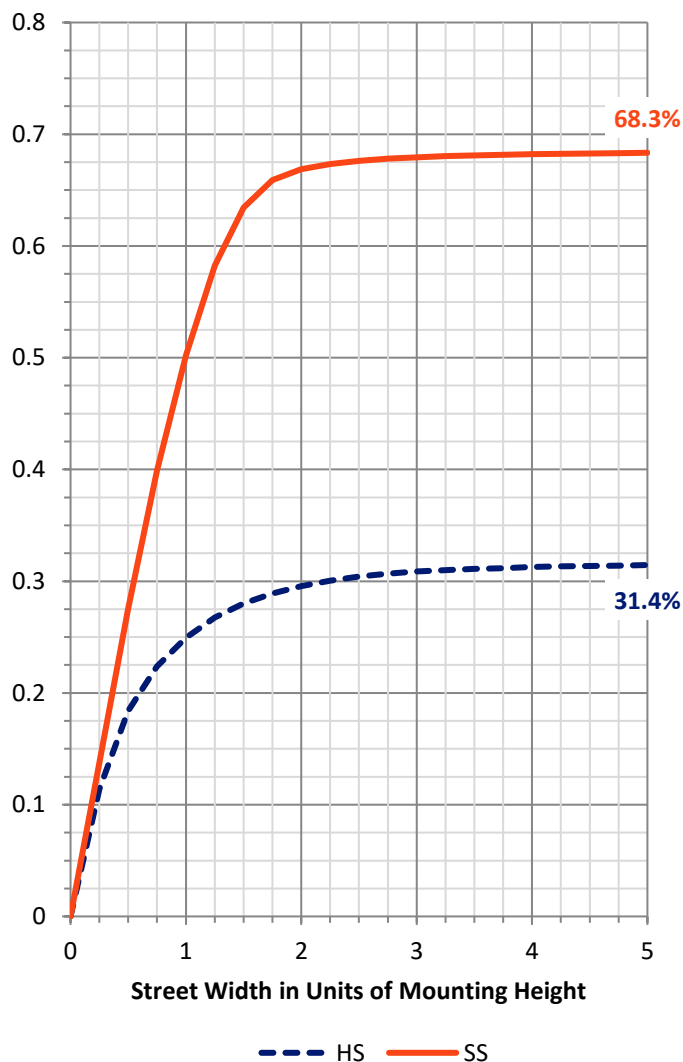
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10492.5	0.0	10492.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	22618.5	0.0	22618.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	33111.0	0.0	33111.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.1	2.0
10°-20°	2044.3	6.2
20°-30°	3613.8	10.9
30°-40°	5427.8	16.4
40°-50°	7449.1	22.5
50°-60°	8874.6	26.8
60°-70°	3797.8	11.5
70°-80°	1074.8	3.2
80°-90°	180.9	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°	33111.0	100.0
0°-180°	33111.0	100.0



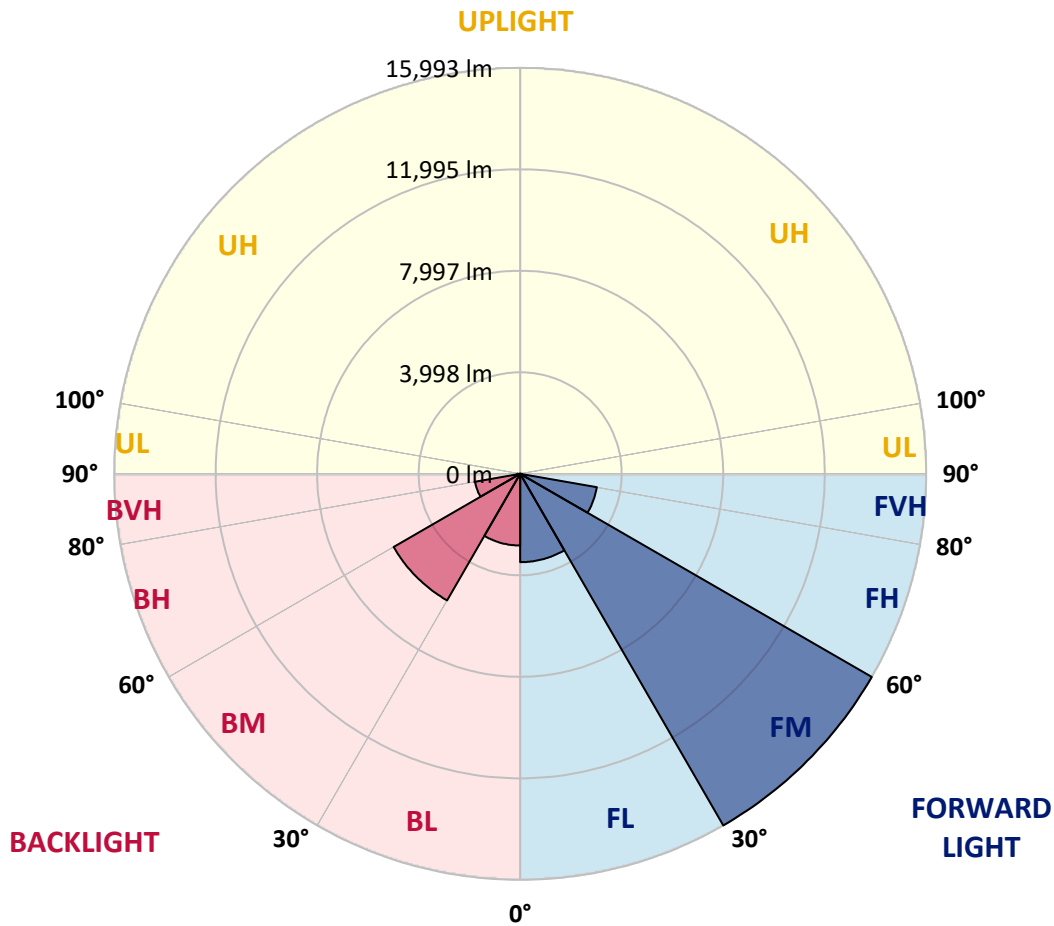
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3481.1	10.5			
FM (30°-60°)	15993.4	48.3			
FH (60°-80°)	3067.3	9.3			G2/5000
FVH (80°-90°)	76.8	0.2			G1/100
BL (0°-30°)	2825.0	8.5	B4/5000		
BM (30°-60°)	5758.1	17.4	B4/8500		
BH (60°-80°)	1805.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	104.1	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°	47°	55°	65°	75°	85°
0°	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0
2.5°	6625.7	6613.0	6604.5	6672.1	6646.8	6651.0	6625.7	6651.0	6667.9	6629.9	6684.8
5°	6613.0	6651.0	6617.2	6638.3	6693.2	6676.3	6693.2	6743.9	6731.2	6718.6	6701.7
7.5°	6731.2	6735.5	6760.8	6769.2	6786.1	6769.2	6794.6	6841.0	6828.4	6756.6	6765.0
10°	6900.1	6908.6	6912.8	6959.3	6988.8	6993.0	6963.5	6921.3	6917.0	7014.2	6946.6
12.5°	7094.4	7073.3	7124.0	7140.8	7174.6	7212.6	7250.6	7162.0	7216.9	7221.1	7140.8
15°	7377.3	7398.4	7339.3	7339.3	7352.0	7356.2	7461.8	7419.6	7411.1	7364.7	7398.4
17.5°	7799.6	7656.0	7651.8	7592.7	7584.2	7618.0	7656.0	7689.8	7803.8	7710.9	7529.3
20°	8107.9	8141.7	8019.2	7947.4	7960.1	8036.1	7998.1	8150.1	8230.3	8078.3	7901.0
22.5°	8652.6	8538.6	8568.2	8407.7	8420.4	8500.6	8496.4	8652.6	8699.1	8458.4	8200.8
25°	9020.0	8990.5	9015.8	8889.1	8906.0	8969.3	9070.7	9328.3	9252.3	8986.2	8390.8
27.5°	9556.3	9497.2	9476.1	9429.6	9412.7	9581.7	9699.9	9974.4	9919.5	9531.0	8728.6
30°	10105.3	10067.3	10088.4	9898.4	9965.9	10324.9	10358.7	10734.5	10709.2	10025.1	9104.5
32.5°	10485.3	10506.5	10544.5	10438.9	10738.7	11025.9	11139.9	11566.4	11587.5	10873.8	9830.8
35°	11097.7	11025.9	11047.0	11169.4	11308.8	11832.4	12018.2	12301.2	12478.5	11764.9	10527.6
37.5°	11481.9	11557.9	11469.3	11663.5	12026.7	12655.9	12824.8	13116.2	13302.0	12643.2	11477.7
40°	12081.6	11959.1	12022.5	12161.8	12533.4	13352.7	13306.2	13606.0	13665.2	13390.7	12364.5
42.5°	12727.7	12668.6	12579.9	12896.6	13209.1	13804.5	13897.4	13758.1	14057.9	14121.2	13631.4
45°	13500.5	13572.3	13584.9	13593.4	13867.9	14387.3	14260.6	14138.1	14484.4	14944.7	14416.8
47.5°	14218.3	13990.3	14155.0	14383.0	14771.5	14775.8	14923.6	14632.2	14999.6	15409.2	15126.3
50°	14459.0	14349.3	14568.8	14999.6	15599.2	15662.6	15679.5	15265.6	15455.6	15780.8	15371.2
52.5°	14366.1	14328.1	14889.8	15557.0	16435.3	16756.3	16840.7	16329.8	16435.3	16287.5	15911.7
55°	13922.7	14036.8	14602.6	15962.4	17309.5	18301.8	18462.3	17816.2	17144.8	17258.8	16845.0
56°	13314.7	13116.2	13749.6	15502.1	17271.5	18804.4	18935.3	18128.7	17672.6	17524.8	16836.5
57.5°	11296.1	11038.5	11870.4	13948.1	16312.9	18614.3	18711.5	18259.6	17584.0	17284.1	15607.7
60°	6613.0	6739.7	7795.4	9619.7	12584.1	15261.4	15586.6	15915.9	15464.1	14121.2	11617.1
62.5°	3192.5	3112.2	3868.1	5515.0	7668.7	9742.1	9645.0	10569.8	11076.5	10033.5	7335.1
65°	1672.2	1663.8	2111.4	3010.9	4214.4	5118.1	5206.8	5705.1	6401.8	5168.8	3724.6
67.5°	1228.9	1262.6	1486.4	2115.6	2711.1	2766.0	2753.3	3002.4	3070.0	2597.1	2288.8
70°	962.8	979.7	1144.4	1608.9	2018.5	1807.4	1769.4	1798.9	1997.4	2081.9	1980.5
72.5°	696.8	713.7	853.0	1085.3	1262.6	1233.1	1258.4	1423.1	1668.0	1756.7	1651.1
75°	464.5	477.2	553.2	663.0	747.4	806.6	853.0	1043.0	1271.1	1321.8	1271.1
77.5°	320.9	333.6	384.3	468.7	477.2	515.2	532.1	620.8	760.1	823.5	789.7
80°	181.6	181.6	206.9	240.7	295.6	346.3	354.7	426.5	489.9	532.1	540.5
82.5°	84.5	88.7	109.8	147.8	194.3	240.7	249.1	295.6	342.1	384.3	396.9
85°	42.2	46.5	63.3	88.7	118.2	143.6	139.4	143.6	152.0	143.6	147.8
87.5°	12.7	12.7	16.9	21.1	16.9	21.1	21.1	25.3	29.6	33.8	38.0
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°	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0	6651.0
2.5°	6689.0	6701.7	6617.2	6697.4	6667.9	6663.7	6722.8	6714.3	6735.5	6727.0	6676.3
5°	6693.2	6663.7	6752.3	6672.1	6710.1	6790.3	6735.5	6862.1	6798.8	6841.0	6748.1
7.5°	6824.1	6832.6	6815.7	6849.5	6832.6	6870.6	6841.0	6870.6	6819.9	6824.1	6908.6
10°	6938.1	6912.8	6942.4	6900.1	6929.7	6917.0	6849.5	6828.4	6845.2	6824.1	6879.0
12.5°	7149.3	7102.8	7081.7	7031.1	6997.3	6870.6	6765.0	6705.9	6786.1	6798.8	6773.5
15°	7364.7	7368.9	7271.8	7157.7	6946.6	6756.6	6781.9	6803.0	6803.0	6836.8	6773.5
17.5°	7499.8	7499.8	7411.1	7183.1	6967.7	6857.9	6832.6	6765.0	6705.9	6697.4	6693.2
20°	7736.3	7664.5	7461.8	7178.9	6959.3	6908.6	6718.6	6558.1	6435.6	6393.4	6389.2
22.5°	8006.5	7824.9	7542.0	7187.3	6946.6	6874.8	6520.1	6279.4	6059.8	5966.9	5979.6
25°	8255.7	7964.3	7588.5	7149.3	6900.1	6553.9	6156.9	5823.3	5595.3	5519.3	5481.3
27.5°	8428.8	8112.1	7588.5	7183.1	6727.0	6194.9	5789.5	5363.0	5164.5	5113.9	5122.3
30°	8661.1	8297.9	7719.4	7111.3	6380.7	5730.4	5244.8	4966.1	4847.8	4805.6	4835.2
32.5°	9205.8	8783.5	7901.0	6938.1	5971.1	5265.9	4873.2	4716.9	4543.8	4459.3	4429.8
35°	9797.0	9243.8	8078.3	6646.8	5510.8	4843.6	4598.7	4455.1	4248.2	4155.3	4172.2
37.5°	10633.1	9835.0	8091.0	6165.4	5012.5	4607.1	4383.3	4159.5	3990.6	3847.0	3804.8
40°	11760.6	10641.6	8061.4	5658.6	4611.4	4328.4	4163.7	3885.0	3695.0	3593.6	3614.8
42.5°	12753.0	11587.5	7939.0	5084.3	4248.2	4138.4	3952.6	3678.1	3492.3	3386.7	3378.3
45°	13589.1	12284.3	7706.7	4594.5	3944.1	3927.3	3711.9	3500.7	3352.9	3255.8	3298.0
47.5°	14361.9	12845.9	7356.2	4104.6	3665.4	3699.2	3492.3	3361.4	3268.5	3179.8	3175.6
50°	14640.6	12837.5	7047.9	3699.2	3441.6	3424.7	3416.3	3276.9	3179.8	3103.8	3137.6
52.5°	15105.1	12981.1	6714.3	3420.5	3238.9	3243.2	3272.7	3171.4	3061.6	3015.1	3057.3
55°	15772.4	13002.2	5979.6	3095.4	3070.0	3099.6	3099.6	3032.0	2939.1	2901.1	2880.0
56°	15227.6	12373.0	5363.0	3010.9	2985.6	2985.6	3065.8	2989.8	2875.8	2846.2	2820.9
57.5°	14045.2	10840.1	4488.9	2909.5	2871.5	2930.7	2972.9	2892.7	2787.1	2744.9	2770.2
60°	9687.2	7335.1	3374.1	2690.0	2690.0	2787.1	2820.9	2702.6	2656.2	2652.0	2618.2
62.5°	5654.4	4273.5	2639.3	2491.5	2499.9	2580.2	2605.5	2537.9	2478.8	2550.6	2584.4
65°	2998.2	2550.6	2263.4	2280.3	2284.6	2347.9	2457.7	2453.5	2449.3	2470.4	2474.6
67.5°	2170.5	2119.9	2056.5	2039.6	2048.1	2094.5	2204.3	2288.8	2284.6	2233.9	2195.9
70°	1934.1	1862.3	1824.3	1828.5	1794.7	1849.6	1938.3	1993.2	1896.1	1836.9	1811.6
72.5°	1608.9	1587.8	1562.5	1566.7	1499.1	1486.4	1385.1	1385.1	1359.8	1342.9	1372.4
75°	1228.9	1220.4	1233.1	1212.0	1140.2	1064.2	1005.0	950.1	865.7	831.9	815.0
77.5°	777.0	802.3	831.9	785.5	755.9	701.0	641.9	587.0	519.4	481.4	481.4
80°	527.9	549.0	570.1	561.6	527.9	477.2	430.7	371.6	325.2	295.6	291.4
82.5°	401.2	418.1	447.6	413.8	380.1	337.8	299.8	257.6	215.4	181.6	181.6
85°	143.6	164.7	181.6	198.5	211.1	215.4	185.8	152.0	122.5	97.1	92.9
87.5°	38.0	42.2	46.5	42.2	42.2	42.2	46.5	42.2	38.0	29.6	29.6
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)