

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: P650930

Luminaire Tested: **GALN-SA5C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650930
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-SA5C-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 25847.3 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

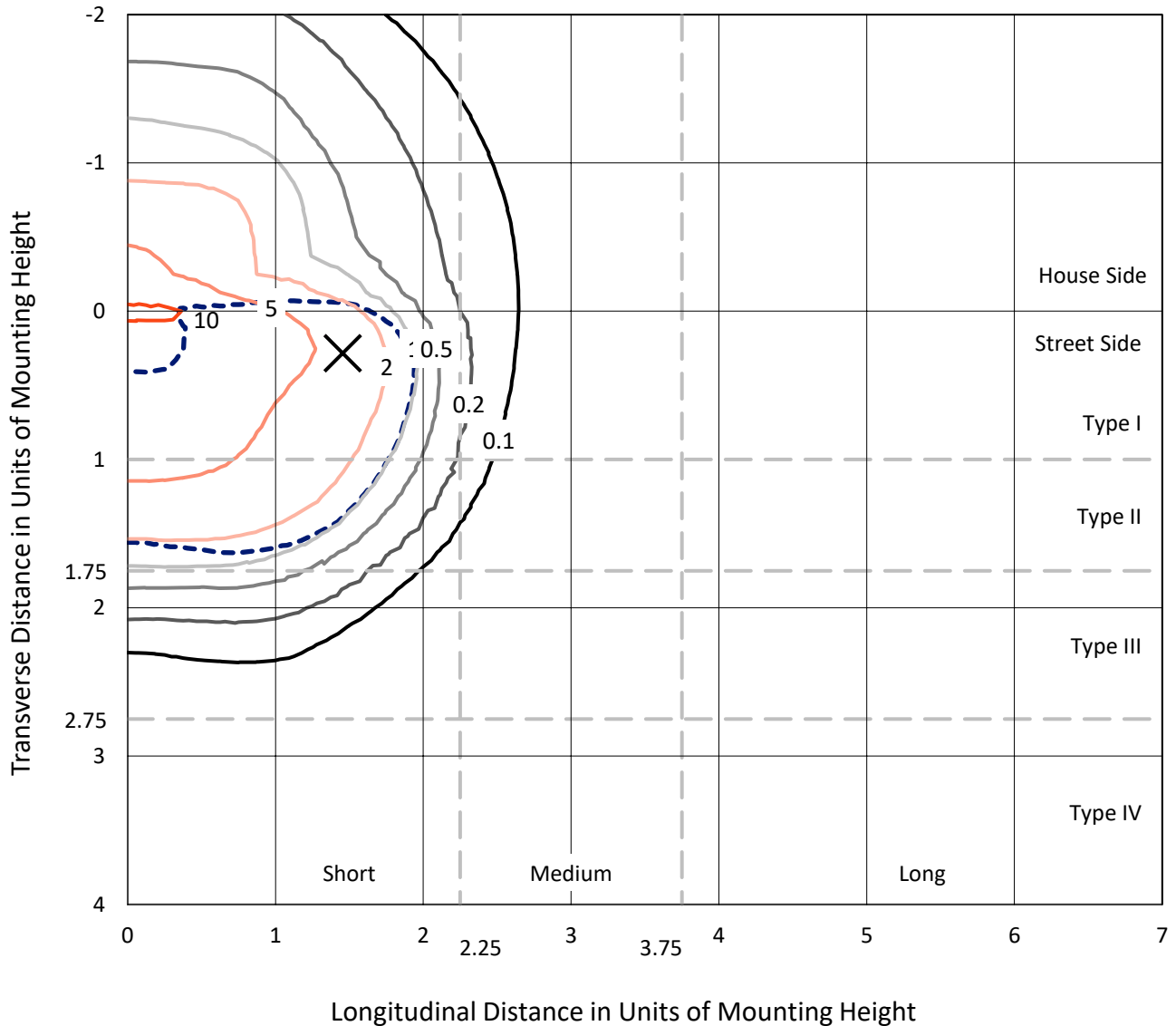
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

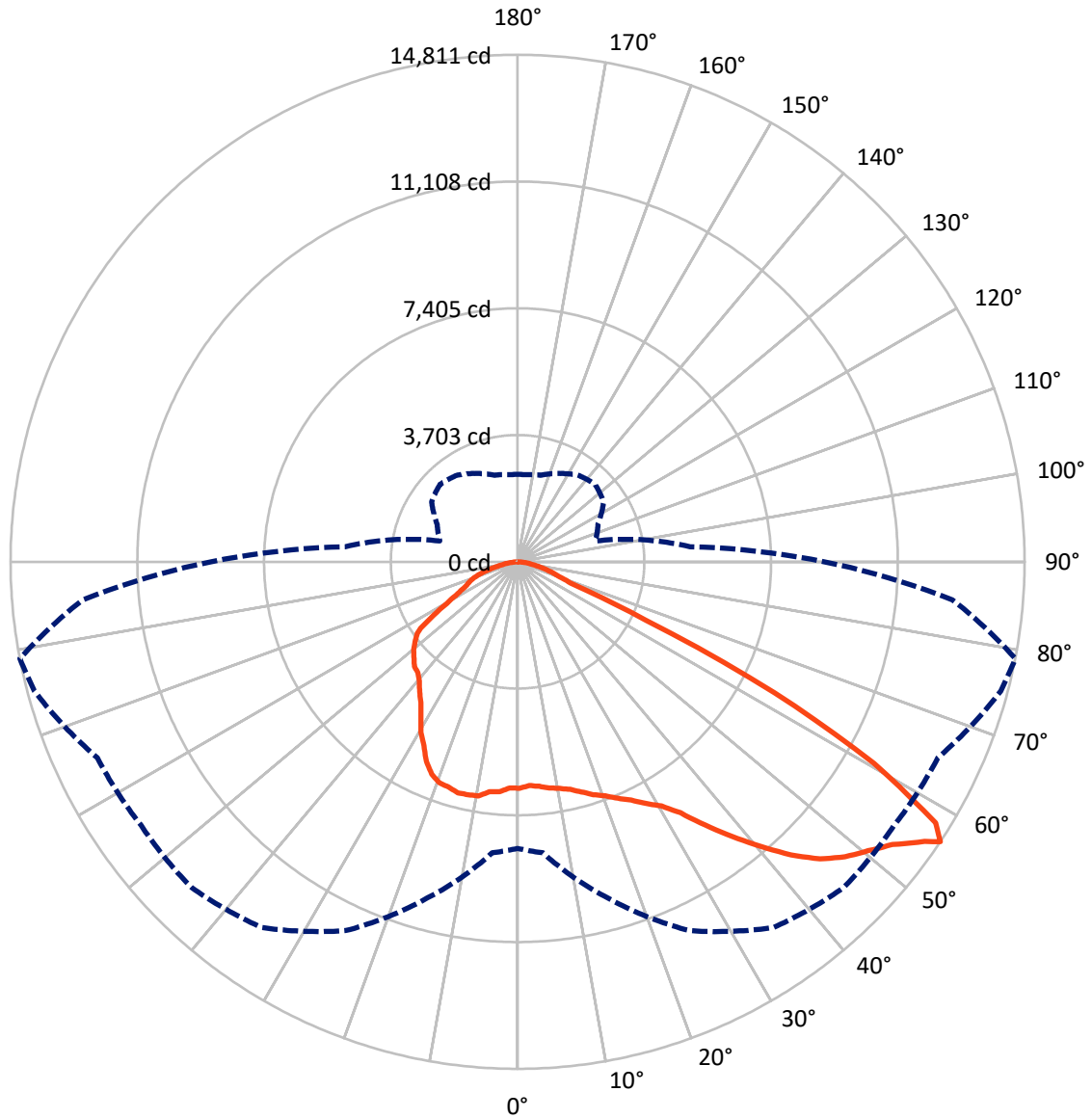
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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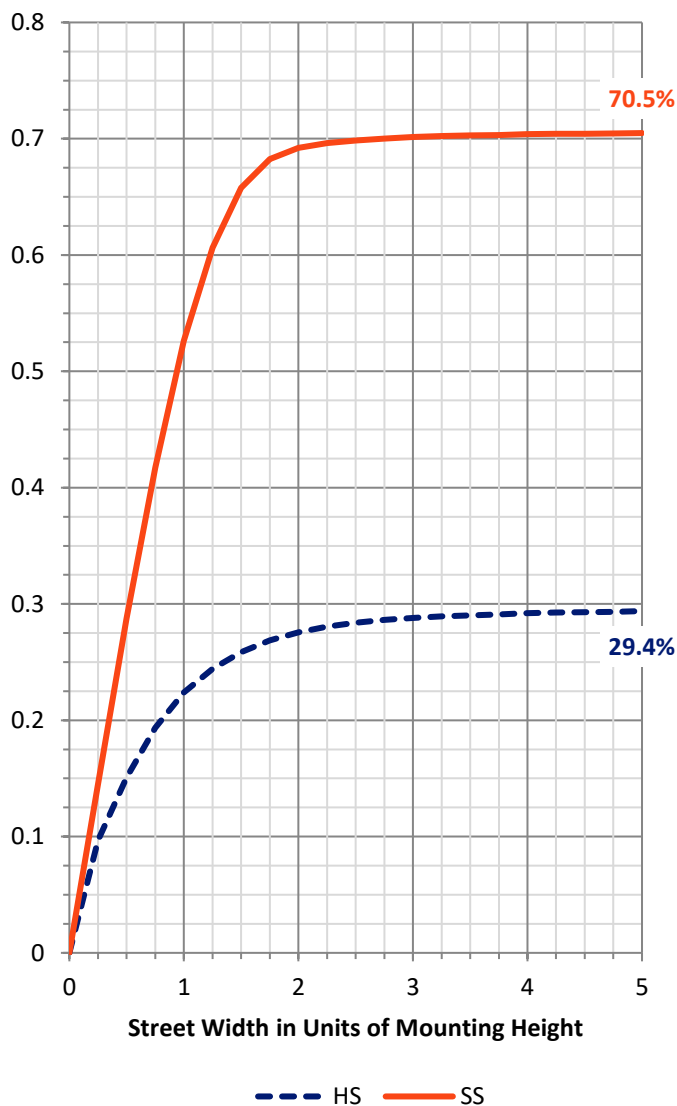
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7633.3	0.0	7633.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	18214.0	0.0	18214.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	25847.3	0.0	25847.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.3	2.3
10°-20°	1645.5	6.4
20°-30°	2815.2	10.9
30°-40°	4314.6	16.7
40°-50°	5831.2	22.6
50°-60°	6697.3	25.9
60°-70°	3052.8	11.8
70°-80°	752.7	2.9
80°-90°	136.8	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°	25847.3	100.0
0°-180°	25847.3	100.0

Coefficient of Utilization



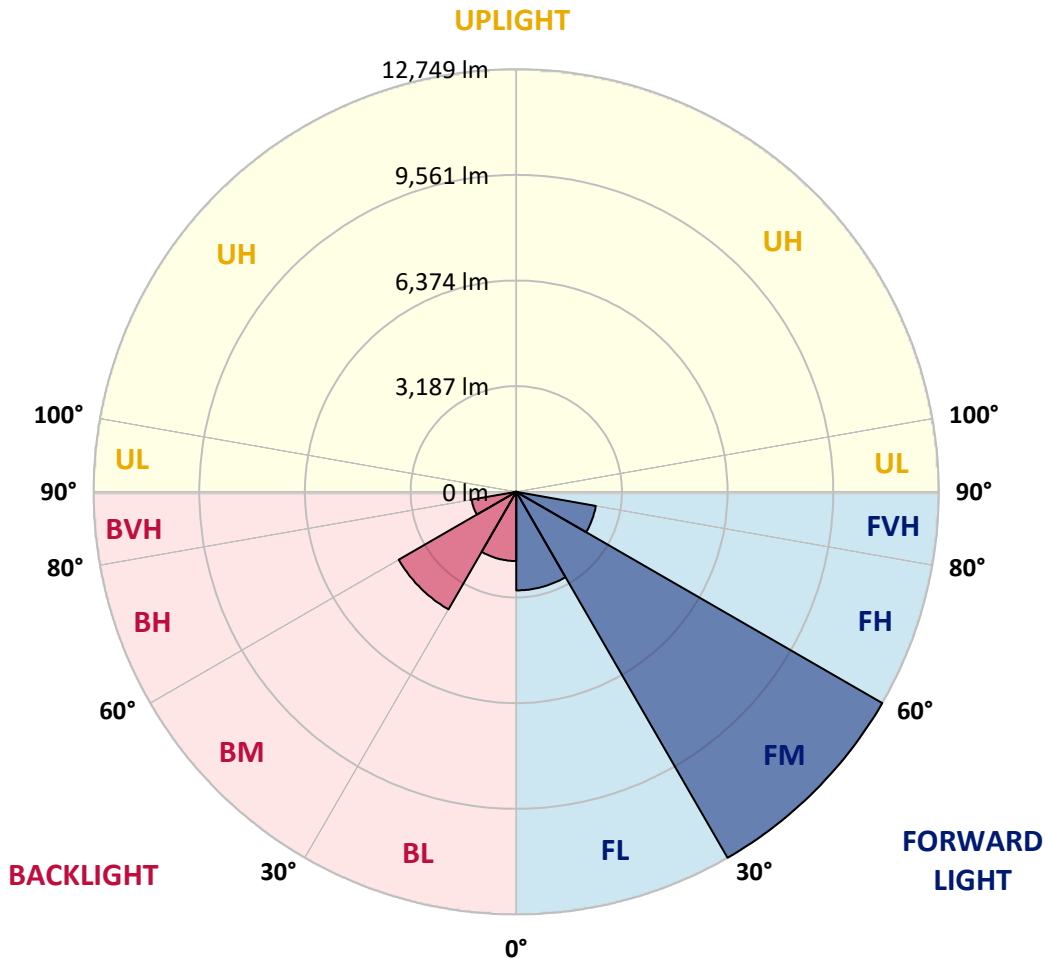
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2973.9	11.5			
FM (30°-60°)	12748.7	49.3			
FH (60°-80°)	2436.8	9.4			G2/5000
FVH (80°-90°)	54.6	0.2			G1/100
BL (0°-30°)	2088.0	8.1	B3/2500		
BM (30°-60°)	4094.4	15.8	B3/5000		
BH (60°-80°)	1368.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	82.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3
2.5°	6291.4	6275.2	6313.9	6342.8	6378.2	6423.3	6445.8	6458.7	6571.4	6542.5	6629.4
5°	6156.1	6114.2	6143.3	6165.8	6226.9	6281.7	6342.8	6439.5	6542.5	6587.6	6693.8
7.5°	6037.0	6014.4	6008.0	6024.1	6107.8	6178.7	6284.9	6426.6	6593.9	6668.0	6729.2
10°	5840.6	5808.4	5856.6	5962.9	5985.5	6133.6	6255.9	6458.7	6603.6	6732.5	6912.8
12.5°	5753.6	5721.4	5731.1	5792.3	5950.1	6091.7	6236.6	6465.2	6771.1	6822.6	7064.1
15°	5892.0	5859.9	5869.5	5853.4	6004.7	6078.8	6307.4	6593.9	6886.9	6973.9	7231.5
17.5°	6207.6	6210.9	6169.0	6133.6	6098.2	6255.9	6413.7	6671.2	6932.0	7151.0	7344.2
20°	6809.7	6703.4	6619.8	6420.1	6365.4	6433.0	6632.6	6880.6	7115.6	7295.8	7514.8
22.5°	7273.3	7283.0	7163.9	6835.5	6716.3	6745.3	6916.0	7118.8	7376.4	7505.2	7756.3
25°	7946.3	7878.7	7749.9	7489.0	7221.8	7244.4	7369.9	7553.4	7624.3	7714.4	7988.2
27.5°	8561.2	8580.6	8326.2	8081.5	7749.9	7685.5	7910.9	7943.1	7823.9	7994.5	8087.9
30°	9185.8	9169.8	9002.3	8715.8	8390.6	8403.4	8503.3	8345.5	8181.3	8274.7	8339.1
32.5°	9833.1	9649.5	9643.1	9385.5	9137.5	9018.5	8896.1	8973.4	8719.0	8738.3	8677.1
35°	10351.4	10377.2	10229.1	10045.5	9923.1	9713.9	9379.0	9517.5	9469.2	9446.6	9182.6
37.5°	10728.1	10628.3	10702.3	10641.2	10525.3	10264.5	9916.7	10048.8	10071.3	10180.7	9874.9
40°	11037.2	10995.3	11191.8	11223.9	11143.4	10580.0	9955.3	10348.2	10686.3	10924.5	10560.7
42.5°	11185.3	11275.5	11481.5	11729.4	11549.1	10947.0	10155.0	10576.8	11330.2	11706.9	11211.0
45°	11385.0	11269.0	11574.9	12028.8	12032.1	11256.1	10348.2	10885.9	11832.4	12379.8	11655.3
47.5°	11182.1	11240.0	11555.6	12131.9	12280.0	11581.3	10869.8	11323.7	12386.2	12872.4	12067.5
50°	10728.1	10844.0	11420.4	12019.2	12466.7	11925.8	11468.6	11797.0	12898.2	13268.5	12135.1
52.5°	10254.8	10319.2	11220.7	12106.1	12550.5	12370.2	12270.4	12450.7	13522.8	13716.0	12218.8
55°	8966.9	9272.8	10560.7	12067.5	12959.4	13171.8	13094.6	13358.6	14231.1	14424.3	12676.1
56°	8371.2	8532.3	10164.7	11887.2	13039.9	13464.8	13426.2	13545.3	14607.8	14810.7	12746.9
57.5°	7270.1	7283.0	8667.5	11088.7	12737.2	13551.8	13513.2	13606.5	14533.8	14395.4	12125.5
60°	4549.5	4749.0	5898.5	8529.0	10831.2	12573.0	12791.9	12041.8	12254.2	11961.3	9433.7
62.5°	2356.8	2327.9	3090.9	4987.4	7189.6	9002.3	9205.2	9169.8	8841.3	8413.1	6162.5
65°	1175.2	1181.6	1616.3	2469.5	3683.3	4713.6	5280.3	5341.5	4469.0	4111.6	2923.5
67.5°	853.2	885.4	1162.3	1510.0	1735.4	1941.4	2379.4	2334.3	1767.6	1680.7	1558.4
70°	663.3	692.2	943.3	1152.7	1046.4	1046.4	1139.8	1178.4	1258.9	1294.3	1336.2
72.5°	483.0	505.5	721.2	795.2	685.8	737.3	853.2	943.3	1027.1	1040.0	1088.3
75°	331.6	350.9	473.3	437.9	412.1	508.7	624.6	708.4	769.5	801.7	830.7
77.5°	215.7	222.2	270.5	228.6	264.0	328.4	405.7	476.5	537.7	563.5	569.9
80°	96.6	106.2	115.9	144.9	183.5	235.1	289.8	347.8	386.4	396.0	415.4
82.5°	54.7	54.7	70.8	103.0	135.2	170.6	209.2	251.1	296.2	305.9	302.7
85°	29.0	29.0	41.9	61.1	83.7	99.8	96.6	99.8	106.2	122.4	119.2
87.5°	9.7	9.7	12.9	12.9	16.1	19.3	16.1	22.5	29.0	29.0	29.0
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°	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3	6613.3
2.5°	6603.6	6632.6	6593.9	6677.7	6677.7	6661.6	6581.1	6606.9	6626.2	6626.2	6642.3
5°	6729.2	6719.6	6745.3	6645.5	6584.4	6561.8	6429.8	6365.4	6310.6	6307.4	6259.1
7.5°	6800.1	6774.3	6764.7	6690.6	6420.1	6255.9	5972.6	5808.4	5773.0	5647.4	5695.7
10°	6912.8	6961.0	6912.8	6510.3	6133.6	5756.8	5480.0	5225.6	5125.8	5045.3	4997.0
12.5°	7144.5	7122.0	6841.9	6297.7	5769.8	5322.2	4910.1	4642.8	4543.0	4472.2	4465.7
15°	7340.9	7228.2	6800.1	5962.9	5203.1	4726.5	4388.5	4198.5	4153.4	4159.8	4188.9
17.5°	7408.5	7331.3	6581.1	5615.2	4781.3	4221.1	4063.3	4034.3	4076.2	4124.4	4137.3
20°	7514.8	7392.5	6490.9	5141.9	4259.7	3905.5	3895.8	3998.9	4076.2	4147.0	4156.6
22.5°	7736.9	7427.9	6197.9	4694.4	3902.3	3812.2	3905.5	3992.5	4111.6	4169.5	4118.0
25°	7801.4	7350.6	5785.8	4156.6	3676.9	3754.2	3854.0	3973.1	4056.8	4089.0	4111.6
27.5°	7856.1	7231.5	5228.8	3799.3	3606.1	3750.9	3854.0	3953.8	3998.9	4027.9	4053.6
30°	8010.7	7196.1	4745.8	3561.0	3561.0	3686.6	3818.6	3844.4	3905.5	3940.9	3986.0
32.5°	8087.9	6951.4	4250.0	3409.7	3516.0	3718.7	3728.4	3776.8	3780.0	3808.9	3760.6
35°	8290.7	6777.5	3789.6	3300.2	3535.2	3686.6	3734.9	3705.9	3548.1	3470.9	3487.0
37.5°	8438.8	6690.6	3457.9	3287.3	3538.5	3722.0	3747.7	3528.8	3364.6	3235.8	3268.0
40°	8838.2	6474.9	3206.8	3264.8	3567.4	3760.6	3689.8	3451.5	3155.3	3023.3	3000.8
42.5°	9144.0	6320.3	3049.0	3239.0	3590.0	3815.4	3660.8	3297.0	2994.3	2872.0	2904.2
45°	9498.2	6284.9	2965.4	3245.5	3628.7	3844.4	3625.4	3177.9	2855.9	2807.6	2797.9
47.5°	9623.7	6030.6	2875.2	3190.8	3619.0	3834.7	3506.3	3087.7	2804.4	2810.8	2836.6
50°	9414.5	5769.8	2807.6	3078.1	3554.6	3747.7	3319.5	2968.6	2775.4	2855.9	2900.9
52.5°	9147.2	5502.5	2669.2	2926.8	3422.5	3612.5	3232.6	2962.2	2746.5	2720.6	2730.3
55°	9227.7	5283.6	2476.0	2720.6	3210.1	3361.4	3136.0	2900.9	2675.6	2579.0	2611.2
56°	8966.9	5058.2	2350.4	2591.9	3065.2	3200.4	3087.7	2846.2	2617.6	2553.3	2553.3
57.5°	8229.6	4301.5	2186.2	2385.8	2759.3	2920.3	2994.3	2814.1	2553.3	2440.6	2443.8
60°	6069.2	3058.7	1960.8	2102.5	2286.0	2414.8	2759.3	2723.9	2392.2	2314.9	2286.0
62.5°	3741.3	2234.5	1799.8	1854.6	1947.9	2054.1	2408.4	2466.3	2221.6	2137.9	2118.6
65°	2096.0	1709.7	1677.5	1700.0	1745.1	1799.8	1999.5	2128.2	1960.8	1832.0	1825.6
67.5°	1532.6	1529.4	1555.1	1574.4	1593.8	1593.8	1642.1	1693.6	1671.1	1568.0	1558.4
70°	1361.9	1371.6	1390.9	1394.1	1400.6	1378.1	1339.4	1323.3	1349.0	1284.6	1271.8
72.5°	1123.7	1155.9	1178.4	1181.6	1146.2	1117.3	1065.7	1011.0	991.7	978.8	975.6
75°	862.9	885.4	895.1	891.9	879.0	837.1	776.0	721.2	685.8	647.1	666.5
77.5°	582.7	614.9	631.1	631.1	611.7	547.3	518.4	476.5	441.1	399.2	405.7
80°	408.9	431.4	457.2	454.0	421.8	389.6	347.8	309.1	280.1	247.9	244.7
82.5°	305.9	318.7	331.6	325.2	302.7	270.5	241.5	206.0	173.8	151.3	151.3
85°	109.5	119.2	144.9	151.3	164.2	164.2	138.4	115.9	93.4	77.3	77.3
87.5°	32.2	32.2	35.4	35.4	32.2	35.4	29.0	32.2	35.4	22.5	22.5
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)