

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: P651477

Luminaire Tested: **GALN-SA6D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651477
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-SA6D-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA 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: 32892.4 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

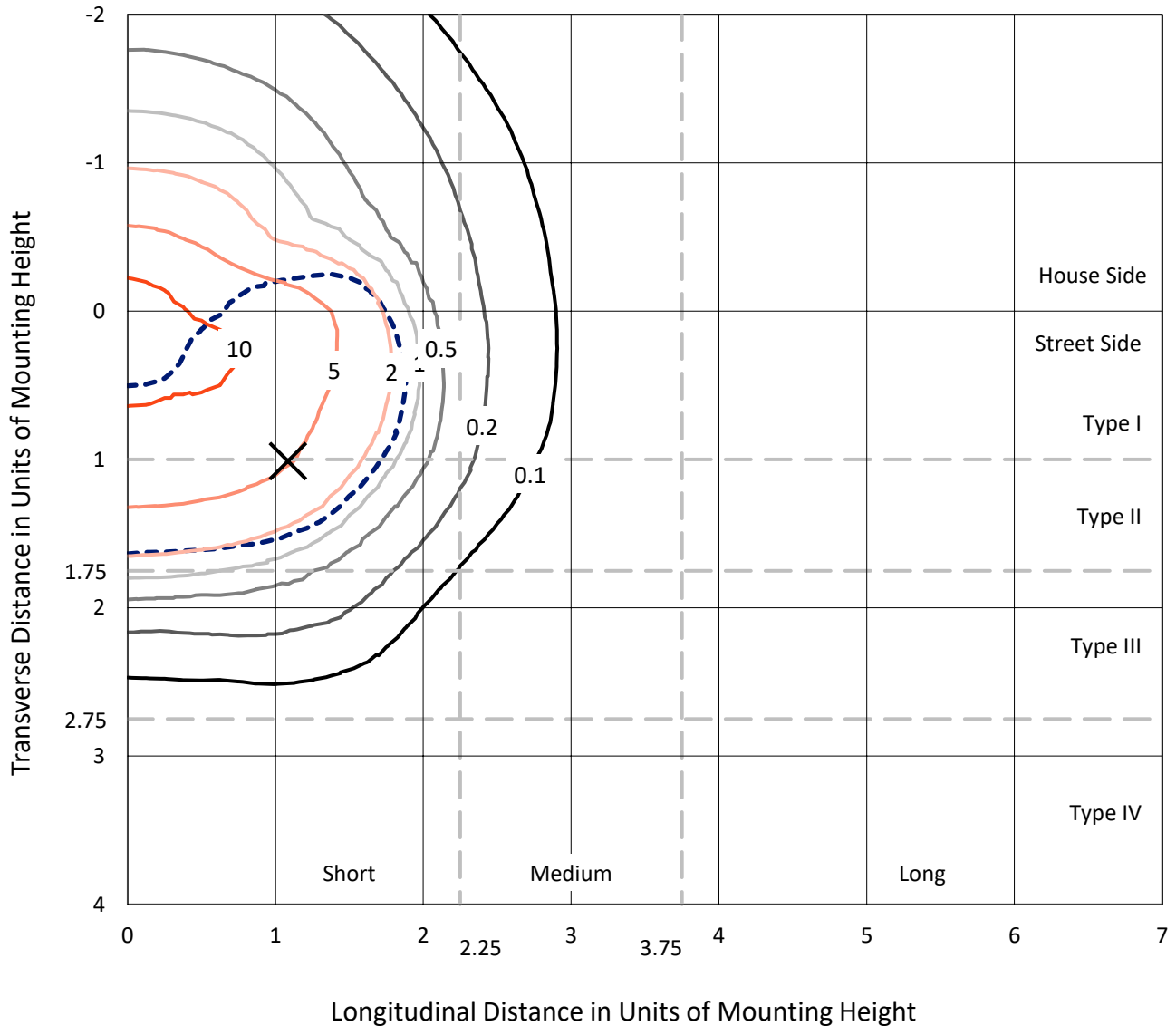
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

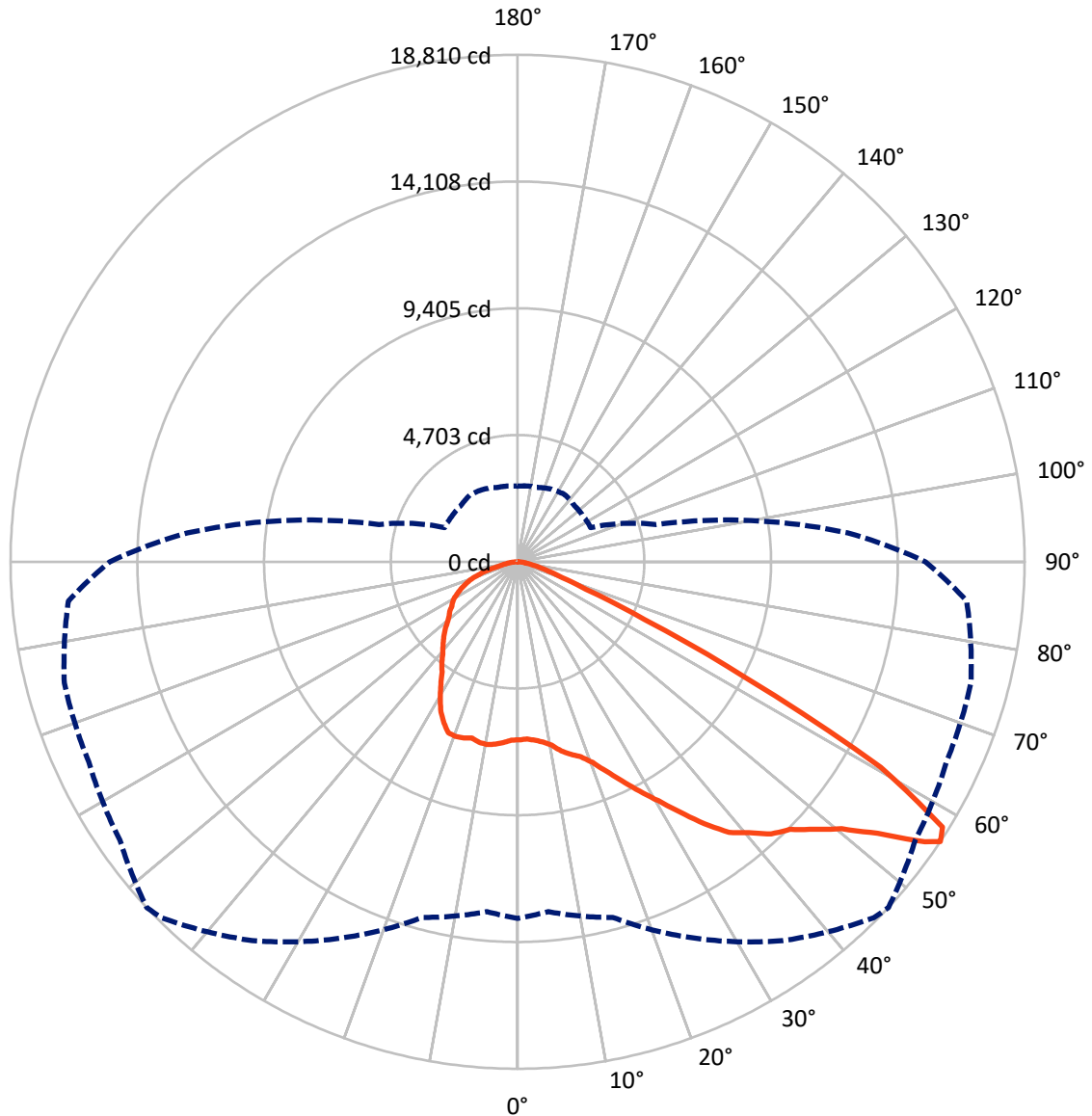
✕ Max cd
 - - - 1/2 Max cd



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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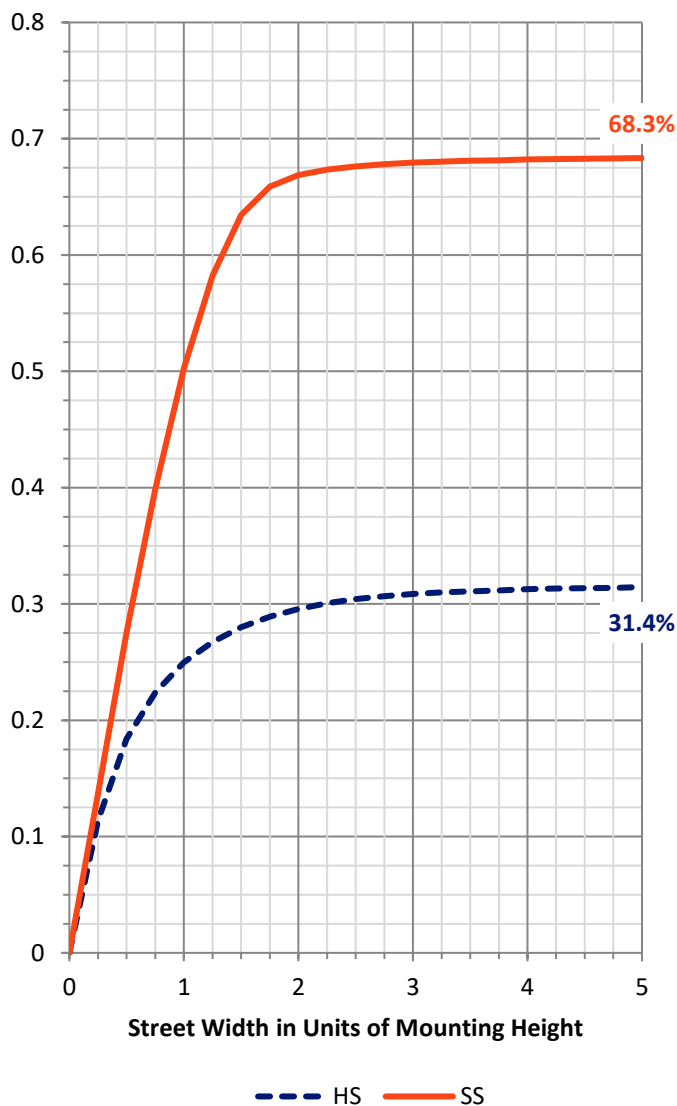
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10423.2	0.0	10423.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	22469.2	0.0	22469.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	32892.4	0.0	32892.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.8	2.0
10°-20°	2030.8	6.2
20°-30°	3589.9	10.9
30°-40°	5391.9	16.4
40°-50°	7399.9	22.5
50°-60°	8816.0	26.8
60°-70°	3772.7	11.5
70°-80°	1067.7	3.2
80°-90°	179.7	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°	32892.4	100.0
0°-180°	32892.4	100.0

Coefficient of Utilization

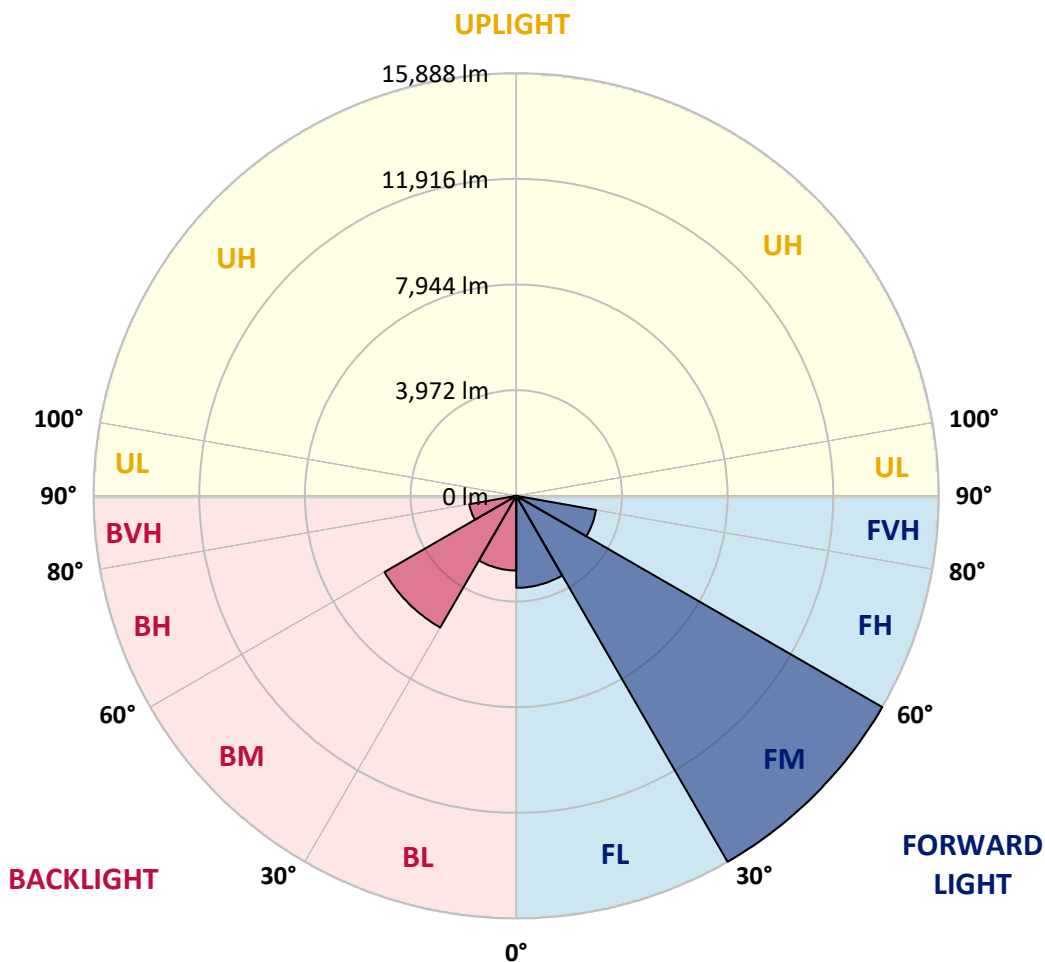


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3458.1	10.5			
FM (30°-60°)	15887.8	48.3			
FH (60°-80°)	3047.0	9.3			G2/5000
FVH (80°-90°)	76.3	0.2			G1/100
BL (0°-30°)	2806.4	8.5	B4/5000		
BM (30°-60°)	5720.1	17.4	B4/8500		
BH (60°-80°)	1793.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	103.4	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°	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1
2.5°	6581.9	6569.3	6560.9	6628.1	6602.9	6607.1	6581.9	6607.1	6623.9	6586.1	6640.6
5°	6569.3	6607.1	6573.5	6594.4	6649.0	6632.2	6649.0	6699.3	6686.8	6674.2	6657.4
7.5°	6686.8	6691.0	6716.1	6724.6	6741.3	6724.6	6749.7	6795.9	6783.3	6711.9	6720.3
10°	6854.6	6863.0	6867.2	6913.3	6942.7	6946.8	6917.5	6875.5	6871.4	6967.9	6900.7
12.5°	7047.6	7026.6	7076.9	7093.7	7127.2	7165.0	7202.7	7114.7	7169.2	7173.4	7093.7
15°	7328.6	7349.6	7290.9	7290.9	7303.4	7307.6	7412.5	7370.5	7362.2	7316.0	7349.6
17.5°	7748.1	7605.5	7601.3	7542.6	7534.2	7567.7	7605.5	7639.1	7752.3	7660.0	7479.6
20°	8054.3	8087.9	7966.2	7894.9	7907.5	7983.0	7945.3	8096.3	8176.0	8025.0	7848.8
22.5°	8595.5	8482.2	8511.6	8352.1	8364.8	8444.5	8440.3	8595.5	8641.6	8402.5	8146.6
25°	8960.4	8931.1	8956.2	8830.4	8847.2	8910.1	9010.8	9266.6	9191.2	8926.9	8335.4
27.5°	9493.2	9434.5	9413.5	9367.4	9350.6	9518.4	9635.8	9908.5	9854.0	9468.1	8671.0
30°	10038.6	10000.8	10021.8	9833.0	9900.1	10256.7	10290.2	10663.6	10638.4	9958.9	9044.4
32.5°	10416.1	10437.1	10474.8	10370.0	10667.8	10953.1	11066.3	11490.0	11511.0	10802.1	9765.9
35°	11024.4	10953.1	10974.0	11095.6	11234.2	11754.3	11938.8	12220.0	12396.1	11687.2	10458.1
37.5°	11406.1	11481.6	11393.5	11586.5	11947.2	12572.3	12740.1	13029.5	13214.1	12559.7	11401.9
40°	12001.8	11880.1	11943.0	12081.5	12450.7	13264.5	13218.3	13516.2	13574.9	13302.3	12282.9
42.5°	12643.6	12584.9	12496.8	12811.5	13121.9	13713.3	13805.6	13667.2	13965.1	14028.0	13541.4
45°	13411.3	13482.7	13495.2	13503.6	13776.3	14292.3	14166.4	14044.8	14388.8	14846.0	14321.6
47.5°	14124.4	13897.9	14061.5	14288.1	14674.0	14678.2	14825.0	14535.6	14900.5	15307.5	15026.4
50°	14363.6	14254.5	14472.6	14900.5	15496.2	15559.2	15575.9	15164.8	15353.5	15676.6	15269.7
52.5°	14271.3	14233.5	14791.4	15454.3	16326.8	16645.7	16729.5	16222.0	16326.8	16180.0	15806.7
55°	13830.8	13944.0	14506.2	15857.0	17195.2	18181.0	18340.4	17698.6	17031.6	17144.8	16733.7
56°	13226.7	13029.5	13658.8	15399.7	17157.4	18680.2	18810.2	18009.0	17556.0	17409.1	16725.3
57.5°	11221.5	10965.6	11792.1	13856.0	16205.1	18491.4	18587.9	18139.0	17467.8	17170.0	15504.6
60°	6569.3	6695.2	7743.9	9556.1	12501.0	15160.6	15483.7	15810.8	15362.0	14028.0	11540.4
62.5°	3171.4	3091.7	3842.6	5478.6	7618.0	9677.8	9581.3	10500.0	11003.4	9967.3	7286.7
65°	1661.2	1652.8	2097.5	2991.0	4186.6	5084.3	5172.4	5667.4	6359.6	5134.6	3700.0
67.5°	1220.7	1254.3	1476.6	2101.7	2693.1	2747.7	2735.1	2982.6	3049.7	2579.9	2273.6
70°	956.5	973.2	1136.9	1598.3	2005.2	1795.5	1757.7	1787.0	1984.3	2068.1	1967.4
72.5°	692.1	709.0	847.4	1078.1	1254.3	1224.9	1250.1	1413.7	1657.0	1745.1	1640.2
75°	461.5	474.1	549.5	658.6	742.5	801.2	847.4	1036.2	1262.7	1313.1	1262.7
77.5°	318.8	331.4	381.7	465.7	474.1	511.7	528.6	616.6	755.1	818.0	784.5
80°	180.4	180.4	205.5	239.1	293.7	344.0	352.4	423.7	486.6	528.6	537.0
82.5°	83.9	88.1	109.1	146.8	193.0	239.1	247.5	293.7	339.8	381.7	394.3
85°	42.0	46.2	62.9	88.1	117.5	142.6	138.4	142.6	151.0	142.6	146.8
87.5°	12.6	12.6	16.8	20.9	16.8	20.9	20.9	25.1	29.4	33.6	37.8
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°	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1	6607.1
2.5°	6644.8	6657.4	6573.5	6653.2	6623.9	6619.7	6678.4	6670.0	6691.0	6682.6	6632.2
5°	6649.0	6619.7	6707.7	6628.1	6665.8	6745.5	6691.0	6816.8	6753.9	6795.9	6703.5
7.5°	6779.0	6787.5	6770.6	6804.3	6787.5	6825.2	6795.9	6825.2	6774.8	6779.0	6863.0
10°	6892.3	6867.2	6896.5	6854.6	6883.9	6871.4	6804.3	6783.3	6800.1	6779.0	6833.6
12.5°	7102.1	7055.9	7035.0	6984.6	6951.0	6825.2	6720.3	6661.6	6741.3	6753.9	6728.8
15°	7316.0	7320.2	7223.8	7110.5	6900.7	6711.9	6737.1	6758.1	6758.1	6791.7	6728.8
17.5°	7450.3	7450.3	7362.2	7135.6	6921.7	6812.6	6787.5	6720.3	6661.6	6653.2	6649.0
20°	7685.1	7613.8	7412.5	7131.4	6913.3	6863.0	6674.2	6514.8	6393.1	6351.1	6347.0
22.5°	7953.7	7773.3	7492.2	7139.8	6900.7	6829.4	6477.0	6237.9	6019.8	5927.5	5940.1
25°	8201.2	7911.7	7538.4	7102.1	6854.6	6510.6	6116.3	5784.8	5558.3	5482.8	5445.1
27.5°	8373.2	8058.5	7538.4	7135.6	6682.6	6154.0	5751.3	5327.7	5130.4	5080.1	5088.5
30°	8603.9	8243.1	7668.4	7064.3	6338.6	5692.6	5210.2	4933.3	4815.8	4773.9	4803.2
32.5°	9145.0	8725.5	7848.8	6892.3	5931.7	5231.1	4841.0	4685.8	4513.8	4429.9	4400.5
35°	9732.3	9182.8	8025.0	6602.9	5474.4	4811.6	4568.3	4425.7	4220.1	4127.9	4144.6
37.5°	10563.0	9770.1	8037.5	6124.7	4979.4	4576.7	4354.4	4132.0	3964.2	3821.6	3779.7
40°	11683.0	10571.3	8008.2	5621.2	4580.9	4299.9	4136.2	3859.3	3670.6	3569.9	3590.9
42.5°	12668.8	11511.0	7886.6	5050.7	4220.1	4111.1	3926.5	3653.8	3469.2	3364.3	3356.0
45°	13499.4	12203.2	7655.8	4564.1	3918.1	3901.3	3687.4	3477.6	3330.8	3234.3	3276.3
47.5°	14267.1	12761.1	7307.6	4077.5	3641.2	3674.8	3469.2	3339.2	3246.9	3158.8	3154.6
50°	14543.9	12752.7	7001.4	3674.8	3418.9	3402.1	3393.7	3255.3	3158.8	3083.3	3116.8
52.5°	15005.4	12895.3	6670.0	3397.9	3217.6	3221.7	3251.1	3150.4	3041.4	2995.2	3037.2
55°	15668.2	12916.3	5940.1	3074.9	3049.7	3079.1	3079.1	3012.0	2919.7	2881.9	2861.0
56°	15127.1	12291.2	5327.7	2991.0	2965.9	2965.9	3045.5	2970.1	2856.8	2827.4	2802.2
57.5°	13952.4	10768.5	4459.2	2890.3	2852.6	2911.3	2953.3	2873.5	2768.7	2726.7	2751.9
60°	9623.2	7286.7	3351.8	2672.2	2672.2	2768.7	2802.2	2684.8	2638.6	2634.4	2600.9
62.5°	5617.0	4245.3	2621.8	2475.1	2483.4	2563.1	2588.3	2521.1	2462.4	2533.8	2567.3
65°	2978.4	2533.8	2248.5	2265.3	2269.4	2332.4	2441.5	2437.3	2433.1	2454.0	2458.2
67.5°	2156.2	2105.9	2043.0	2026.1	2034.5	2080.7	2189.8	2273.6	2269.4	2219.1	2181.4
70°	1921.3	1849.9	1812.2	1816.4	1782.8	1837.4	1925.5	1980.1	1883.5	1824.8	1799.7
72.5°	1598.3	1577.3	1552.1	1556.4	1489.2	1476.6	1376.0	1376.0	1350.8	1334.0	1363.3
75°	1220.7	1212.4	1224.9	1204.0	1132.7	1057.1	998.4	943.9	860.0	826.4	809.6
77.5°	771.9	797.0	826.4	780.3	750.9	696.3	637.6	583.1	516.0	478.2	478.2
80°	524.4	545.3	566.3	557.9	524.4	474.1	427.9	369.2	323.0	293.7	289.5
82.5°	398.5	415.3	444.6	411.1	377.5	335.6	297.9	255.9	214.0	180.4	180.4
85°	142.6	163.6	180.4	197.1	209.7	214.0	184.6	151.0	121.7	96.5	92.3
87.5°	37.8	42.0	46.2	42.0	42.0	42.0	46.2	42.0	37.8	29.4	29.4
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)