

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: P533600

Luminaire Tested: **GALN-SA9A-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533600
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-SA9A-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 32927 lumens
Efficiency: N/A
Efficacy: 120.2 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

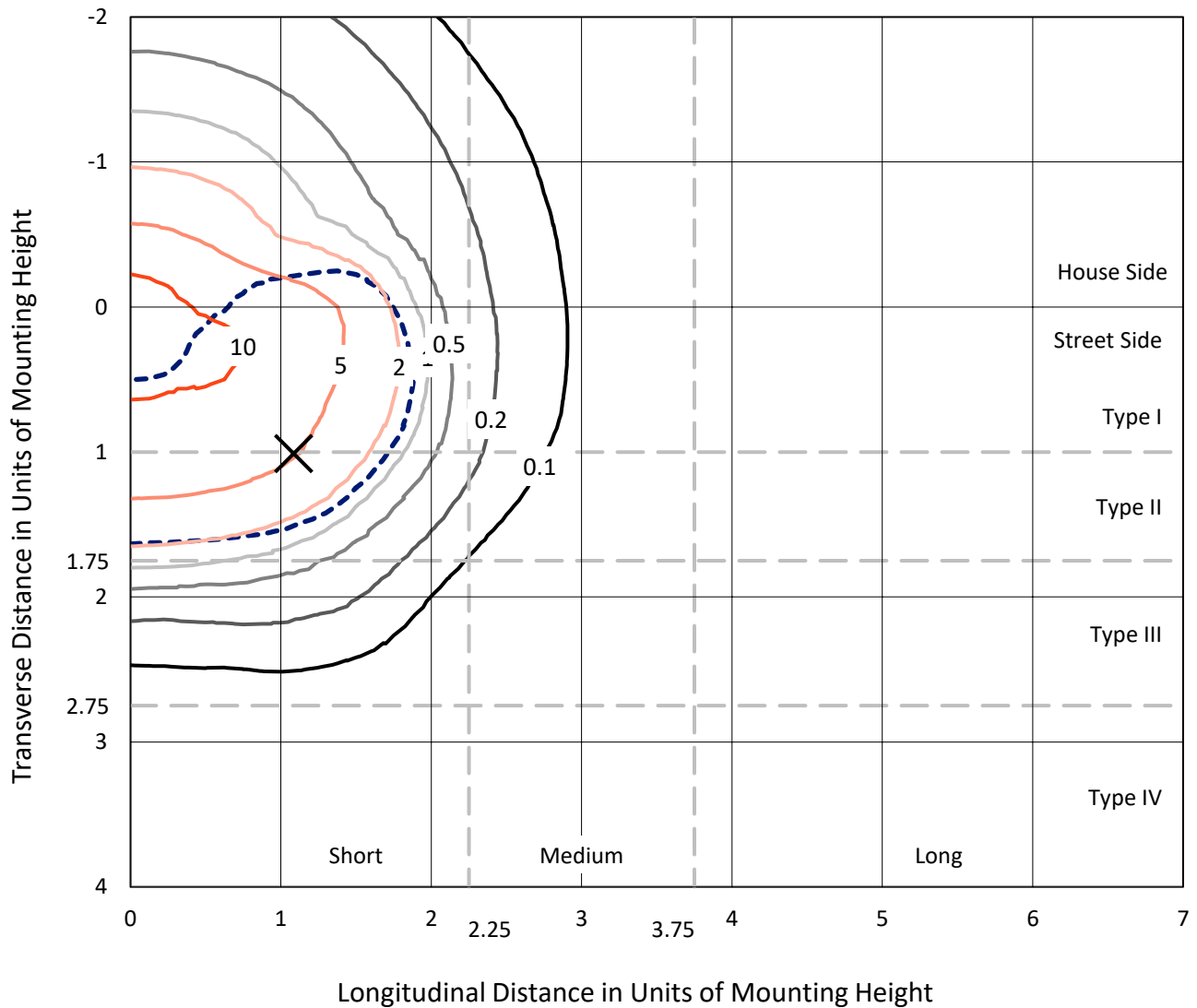
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

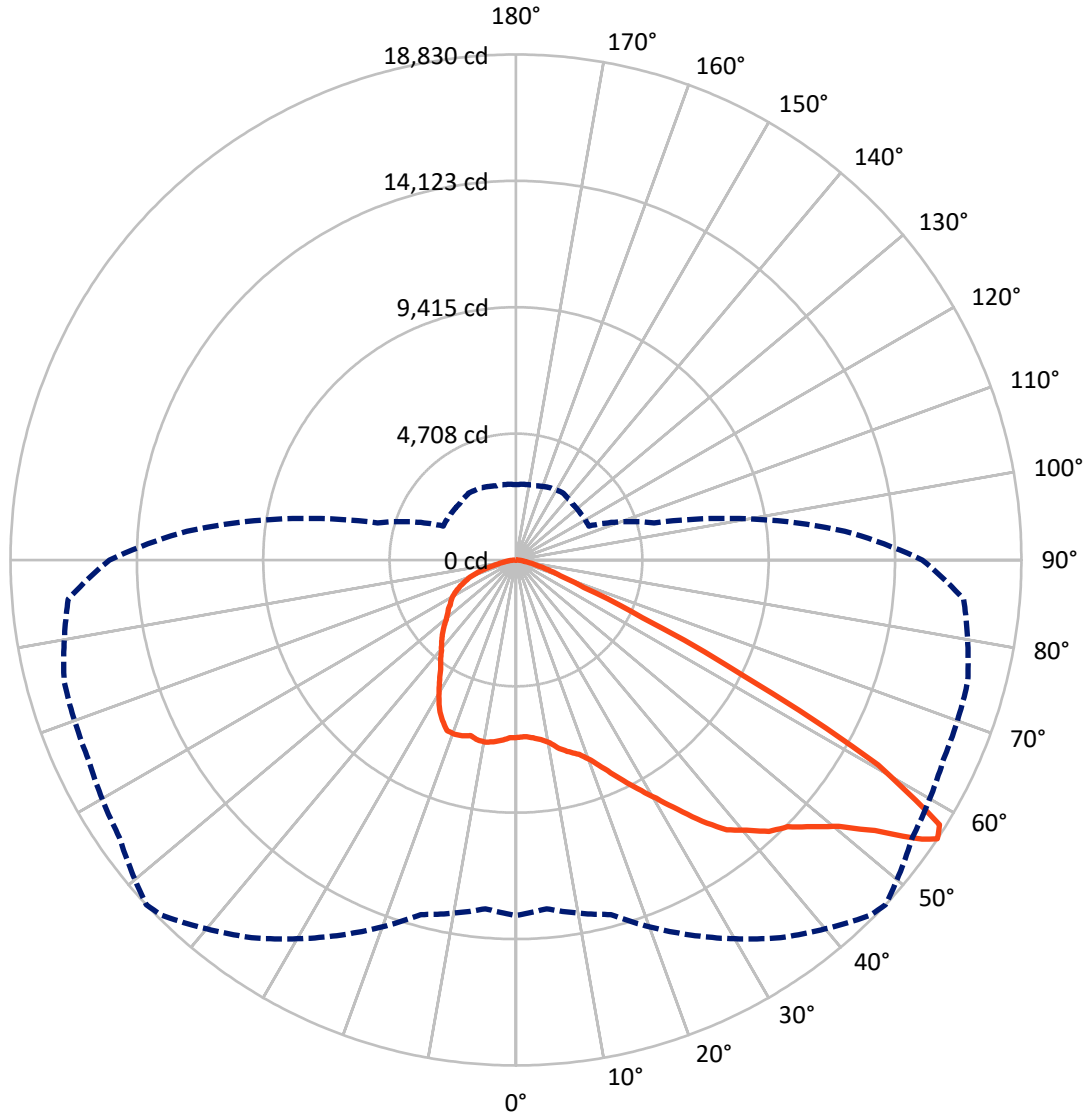
✕ Max cd
 - - - 1/2 Max cd



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	10434.2	0.0	10434.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	22492.8	0.0	22492.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	32927.0	0.0	32927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.5	2.0
10°-20°	2032.9	6.2
20°-30°	3593.7	10.9
30°-40°	5397.6	16.4
40°-50°	7407.7	22.5
50°-60°	8825.3	26.8
60°-70°	3776.7	11.5
70°-80°	1068.8	3.2
80°-90°	179.9	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°	32927.0	100.0
0°-180°	32927.0	100.0

Coefficient of Utilization

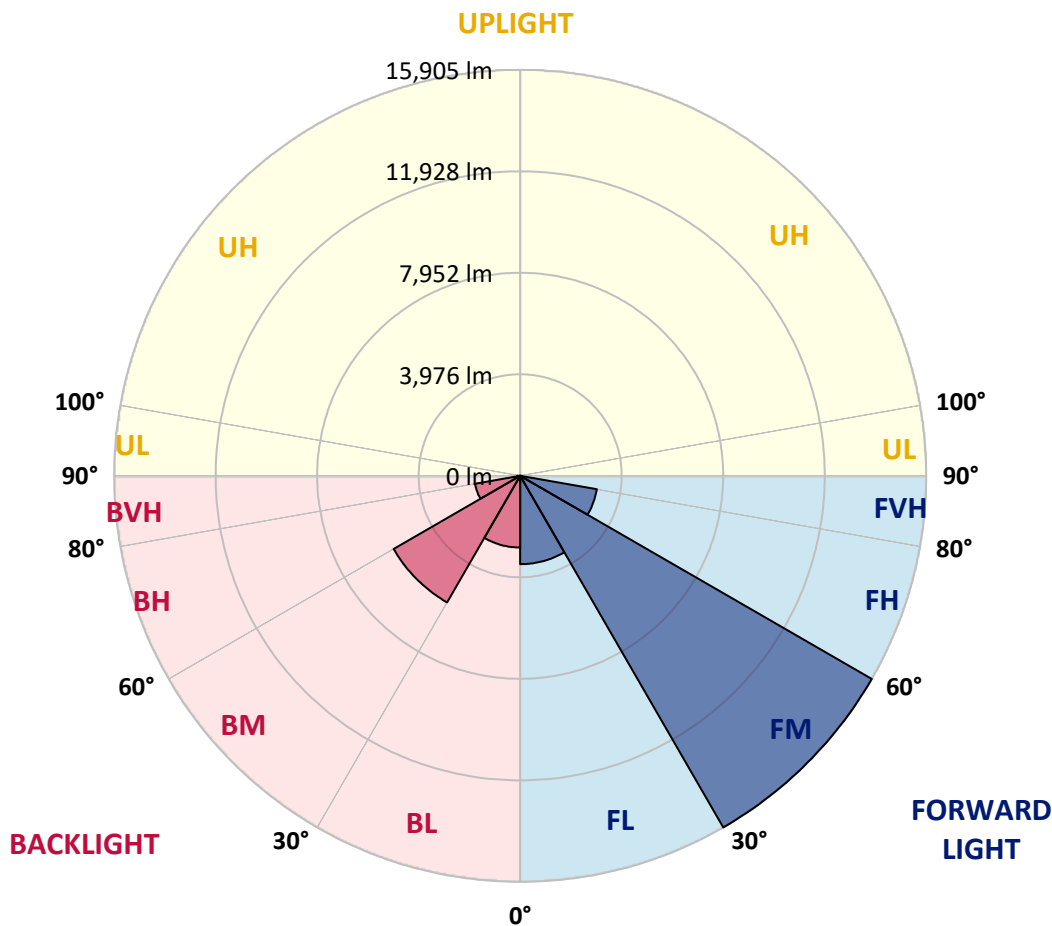


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3461.7	10.5			
FM (30°-60°)	15904.5	48.3			
FH (60°-80°)	3050.2	9.3			G2/5000
FVH (80°-90°)	76.3	0.2			G1/100
BL (0°-30°)	2809.3	8.5	B4/5000		
BM (30°-60°)	5726.1	17.4	B4/8500		
BH (60°-80°)	1795.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	103.5	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°	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0
2.5°	6588.8	6576.2	6567.8	6635.0	6609.8	6614.0	6588.8	6614.0	6630.8	6593.0	6647.6
5°	6576.2	6614.0	6580.4	6601.4	6656.0	6639.2	6656.0	6706.4	6693.8	6681.2	6664.4
7.5°	6693.8	6698.0	6723.2	6731.6	6748.4	6731.6	6756.8	6803.0	6790.4	6719.0	6727.4
10°	6861.8	6870.2	6874.4	6920.6	6950.0	6954.2	6924.8	6882.8	6878.6	6975.2	6908.0
12.5°	7055.0	7034.0	7084.4	7101.2	7134.8	7172.6	7210.3	7122.2	7176.8	7181.0	7101.2
15°	7336.3	7357.3	7298.5	7298.5	7311.1	7315.3	7420.3	7378.3	7369.9	7323.7	7357.3
17.5°	7756.3	7613.5	7609.3	7550.5	7542.1	7575.7	7613.5	7647.1	7760.5	7668.1	7487.5
20°	8062.8	8096.4	7974.6	7903.2	7915.8	7991.4	7953.6	8104.8	8184.6	8033.4	7857.1
22.5°	8604.5	8491.2	8520.6	8361.0	8373.6	8453.4	8449.2	8604.5	8650.7	8411.4	8155.2
25°	8969.9	8940.5	8965.7	8839.7	8856.5	8919.5	9020.3	9276.4	9200.9	8936.3	8344.2
27.5°	9503.2	9444.4	9423.4	9377.2	9360.4	9528.4	9646.0	9919.0	9864.4	9478.0	8680.1
30°	10049.1	10011.3	10032.3	9843.4	9910.6	10267.5	10301.1	10674.8	10649.6	9969.3	9053.9
32.5°	10427.1	10448.1	10485.9	10380.9	10679.0	10964.6	11078.0	11502.1	11523.1	10813.4	9776.2
35°	11036.0	10964.6	10985.6	11107.4	11246.0	11766.7	11951.5	12232.8	12409.2	11699.5	10469.1
37.5°	11418.1	11493.7	11405.5	11598.7	11959.9	12585.6	12753.5	13043.3	13228.1	12573.0	11413.9
40°	12014.4	11892.7	11955.7	12094.2	12463.8	13278.5	13232.3	13530.4	13589.2	13316.3	12295.8
42.5°	12657.0	12598.2	12510.0	12824.9	13135.7	13727.8	13820.2	13681.6	13979.8	14042.7	13555.6
45°	13425.4	13496.8	13509.4	13517.8	13790.8	14307.3	14181.3	14059.5	14403.9	14861.6	14336.7
47.5°	14139.3	13912.6	14076.3	14303.1	14689.5	14693.7	14840.6	14550.9	14916.2	15323.6	15042.2
50°	14378.7	14269.5	14487.9	14916.2	15512.5	15575.5	15592.3	15180.8	15369.8	15693.1	15285.8
52.5°	14286.3	14248.5	14807.0	15470.5	16344.0	16663.2	16747.2	16239.0	16344.0	16197.0	15823.3
55°	13845.4	13958.8	14521.5	15873.7	17213.3	18200.1	18359.7	17717.2	17049.5	17162.9	16751.4
56°	13240.7	13043.3	13673.2	15415.9	17175.5	18699.9	18830.0	18028.0	17574.4	17427.5	16743.0
57.5°	11233.4	10977.2	11804.5	13870.6	16222.2	18510.9	18607.5	18158.1	17486.2	17188.1	15520.9
60°	6576.2	6702.2	7752.1	9566.2	12514.2	15176.6	15499.9	15827.5	15378.2	14042.7	11552.5
62.5°	3174.7	3094.9	3846.6	5484.4	7626.1	9688.0	9591.4	10511.1	11015.0	9977.7	7294.3
65°	1663.0	1654.6	2099.7	2994.2	4191.0	5089.7	5177.8	5673.4	6366.3	5140.0	3703.9
67.5°	1222.0	1255.6	1478.2	2103.9	2696.0	2750.6	2738.0	2985.8	3053.0	2582.6	2276.1
70°	957.5	974.3	1138.0	1600.0	2007.3	1797.3	1759.5	1788.9	1986.3	2070.3	1969.5
72.5°	692.9	709.7	848.3	1079.2	1255.6	1226.2	1251.4	1415.2	1658.8	1746.9	1642.0
75°	461.9	474.5	550.1	659.3	743.3	802.1	848.3	1037.2	1264.0	1314.4	1264.0
77.5°	319.2	331.8	382.1	466.1	474.5	512.3	529.1	617.3	755.9	818.9	785.3
80°	180.6	180.6	205.8	239.4	294.0	344.3	352.7	424.1	487.1	529.1	537.5
82.5°	84.0	88.2	109.2	147.0	193.2	239.4	247.8	294.0	340.2	382.1	394.7
85°	42.0	46.2	63.0	88.2	117.6	142.8	138.6	142.8	151.2	142.8	147.0
87.5°	12.6	12.6	16.8	21.0	16.8	21.0	21.0	25.2	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°	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0
2.5°	6651.8	6664.4	6580.4	6660.2	6630.8	6626.6	6685.4	6677.0	6698.0	6689.6	6639.2
5°	6656.0	6626.6	6714.8	6635.0	6672.8	6752.6	6698.0	6824.0	6761.0	6803.0	6710.6
7.5°	6786.2	6794.6	6777.8	6811.4	6794.6	6832.4	6803.0	6832.4	6782.0	6786.2	6870.2
10°	6899.6	6874.4	6903.8	6861.8	6891.2	6878.6	6811.4	6790.4	6807.2	6786.2	6840.8
12.5°	7109.6	7063.4	7042.4	6992.0	6958.4	6832.4	6727.4	6668.6	6748.4	6761.0	6735.8
15°	7323.7	7327.9	7231.3	7118.0	6908.0	6719.0	6744.2	6765.2	6765.2	6798.8	6735.8
17.5°	7458.1	7458.1	7369.9	7143.2	6929.0	6819.8	6794.6	6727.4	6668.6	6660.2	6656.0
20°	7693.3	7621.9	7420.3	7139.0	6920.6	6870.2	6681.2	6521.6	6399.9	6357.9	6353.7
22.5°	7962.0	7781.5	7500.1	7147.4	6908.0	6836.6	6483.9	6244.5	6026.1	5933.7	5946.3
25°	8209.8	7920.0	7546.3	7109.6	6861.8	6517.4	6122.7	5791.0	5564.2	5488.6	5450.8
27.5°	8382.0	8067.0	7546.3	7143.2	6689.6	6160.5	5757.4	5333.2	5135.8	5085.5	5093.9
30°	8612.9	8251.8	7676.5	7071.8	6345.3	5698.6	5215.6	4938.5	4820.9	4778.9	4808.3
32.5°	9154.7	8734.7	7857.1	6899.6	5937.9	5236.6	4846.1	4690.7	4518.5	4434.6	4405.2
35°	9742.6	9192.5	8033.4	6609.8	5480.2	4816.7	4573.1	4430.4	4224.6	4132.2	4149.0
37.5°	10574.1	9780.4	8046.0	6131.1	4984.7	4581.5	4359.0	4136.4	3968.4	3825.6	3783.6
40°	11695.3	10582.5	8016.6	5627.2	4585.7	4304.4	4140.6	3863.4	3674.5	3573.7	3594.7
42.5°	12682.1	11523.1	7894.8	5056.1	4224.6	4115.4	3930.6	3657.7	3472.9	3367.9	3359.5
45°	13513.6	12216.0	7663.9	4568.9	3922.2	3905.4	3691.3	3481.3	3334.3	3237.7	3279.7
47.5°	14282.1	12774.5	7315.3	4081.8	3645.1	3678.7	3472.9	3342.7	3250.3	3162.1	3157.9
50°	14559.3	12766.1	7008.8	3678.7	3422.5	3405.7	3397.3	3258.7	3162.1	3086.5	3120.1
52.5°	15021.2	12908.9	6677.0	3401.5	3220.9	3225.1	3254.5	3153.7	3044.6	2998.4	3040.4
55°	15684.7	12929.9	5946.3	3078.2	3053.0	3082.3	3082.3	3015.2	2922.8	2885.0	2864.0
56°	15143.0	12304.2	5333.2	2994.2	2969.0	2969.0	3048.8	2973.2	2859.8	2830.4	2805.2
57.5°	13967.2	10779.8	4463.9	2893.4	2855.6	2914.4	2956.4	2876.6	2771.6	2729.6	2754.8
60°	9633.4	7294.3	3355.3	2675.0	2675.0	2771.6	2805.2	2687.6	2641.4	2637.2	2603.6
62.5°	5623.0	4249.8	2624.6	2477.6	2486.0	2565.8	2591.0	2523.8	2465.0	2536.4	2570.0
65°	2981.6	2536.4	2250.9	2267.7	2271.9	2334.9	2444.0	2439.8	2435.6	2456.6	2460.8
67.5°	2158.5	2108.1	2045.1	2028.3	2036.7	2082.9	2192.1	2276.1	2271.9	2221.5	2183.7
70°	1923.3	1851.9	1814.1	1818.3	1784.7	1839.3	1927.5	1982.1	1885.5	1826.7	1801.5
72.5°	1600.0	1579.0	1553.8	1558.0	1490.8	1478.2	1377.4	1377.4	1352.2	1335.4	1364.8
75°	1222.0	1213.6	1226.2	1205.2	1133.8	1058.2	999.5	944.9	860.9	827.3	810.5
77.5°	772.7	797.9	827.3	781.1	751.7	697.1	638.3	583.7	516.5	478.7	478.7
80°	524.9	545.9	566.9	558.5	524.9	474.5	428.3	369.5	323.4	294.0	289.8
82.5°	398.9	415.7	445.1	411.5	377.9	336.0	298.2	256.2	214.2	180.6	180.6
85°	142.8	163.8	180.6	197.4	210.0	214.2	184.8	151.2	121.8	96.6	92.4
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)