

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: P529234

Luminaire Tested: **GALN-SA4B-760-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529234
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-SA4B-760-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA 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: 19650 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

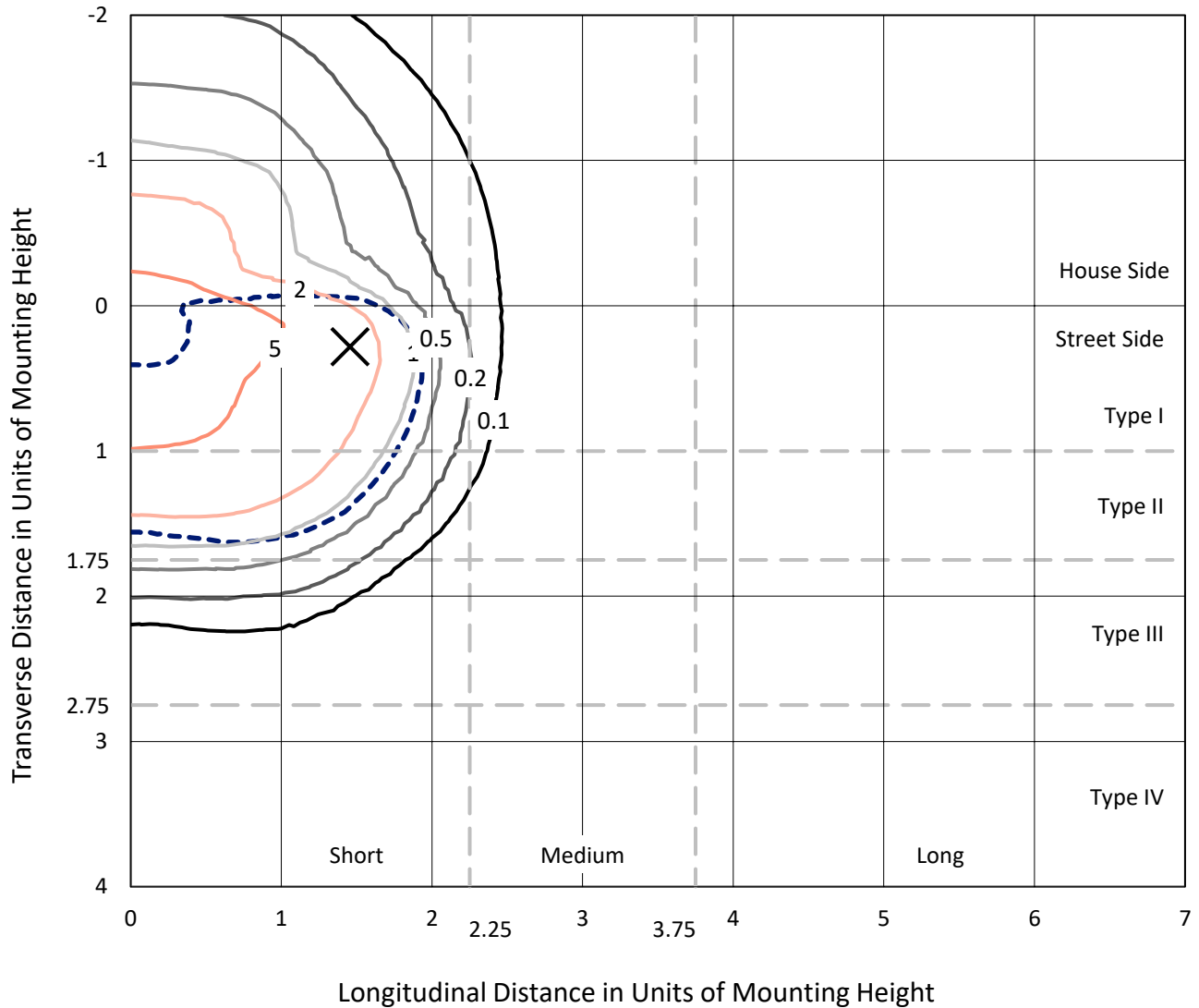
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

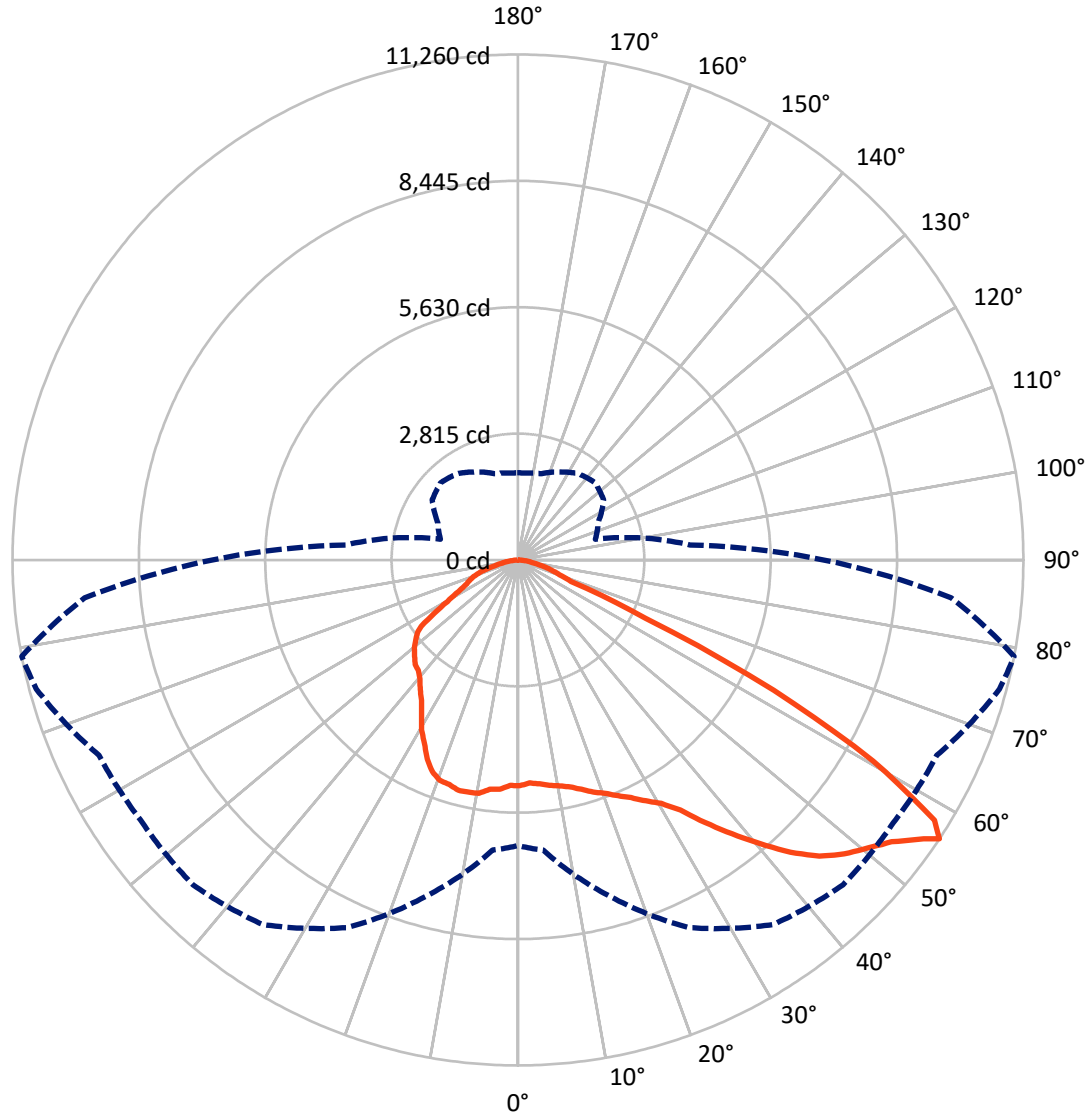
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	5803.1	0.0	5803.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	13846.9	0.0	13846.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	19650.0	0.0	19650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.1	2.3
10°-20°	1251.0	6.4
20°-30°	2140.2	10.9
30°-40°	3280.1	16.7
40°-50°	4433.0	22.6
50°-60°	5091.5	25.9
60°-70°	2320.9	11.8
70°-80°	572.2	2.9
80°-90°	104.0	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°	19650.0	100.0
0°-180°	19650.0	100.0

Coefficient of Utilization



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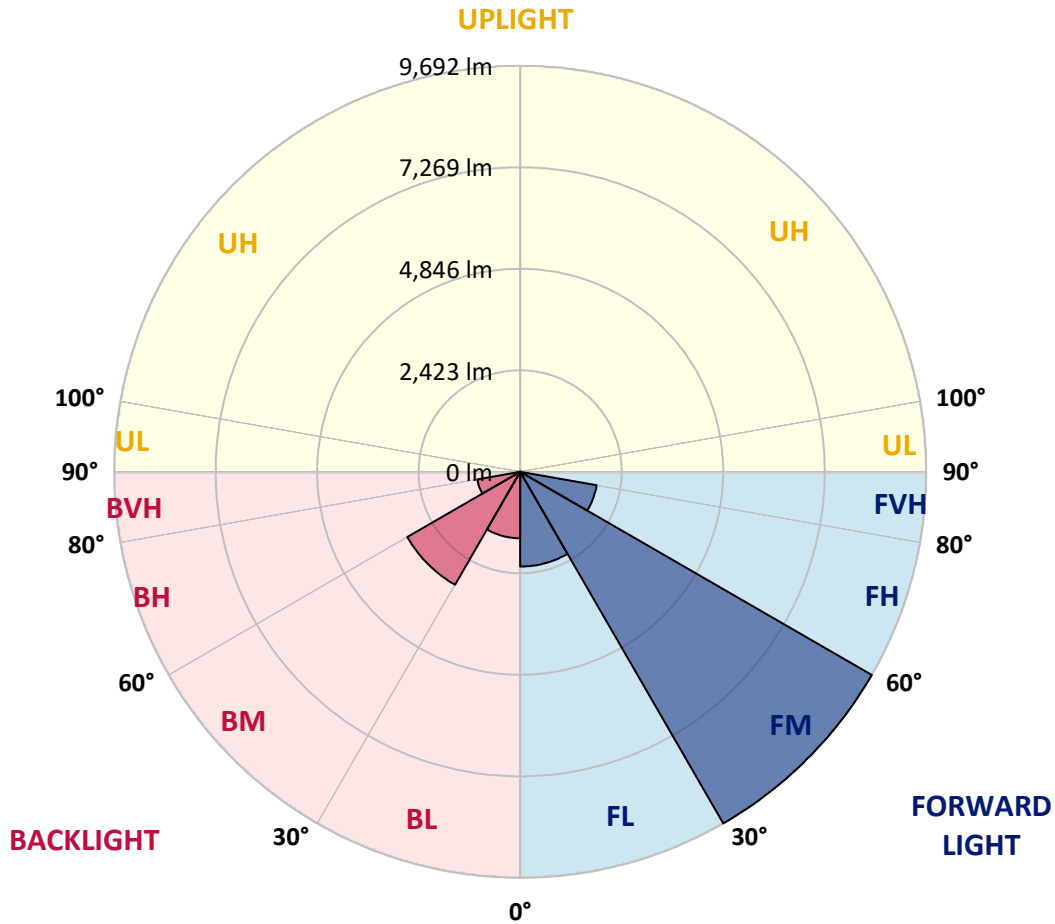
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2260.9	11.5			
FM (30°-60°)	9692.0	49.3			
FH (60°-80°)	1852.5	9.4			G2/5000
FVH (80°-90°)	41.5	0.2			G1/100
BL (0°-30°)	1587.4	8.1	B3/2500		
BM (30°-60°)	3112.7	15.8	B3/5000		
BH (60°-80°)	1040.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	62.5	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°	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7
2.5°	4782.9	4770.6	4800.0	4822.0	4849.0	4883.2	4900.4	4910.2	4995.8	4973.8	5039.9
5°	4680.1	4648.3	4670.3	4687.4	4733.9	4775.5	4822.0	4895.5	4973.8	5008.1	5088.9
7.5°	4589.5	4572.4	4567.5	4579.7	4643.4	4697.2	4778.0	4885.7	5013.0	5069.3	5115.8
10°	4440.2	4415.7	4452.4	4533.2	4550.3	4662.9	4756.0	4910.2	5020.3	5118.2	5255.3
12.5°	4374.1	4349.6	4357.0	4403.5	4523.4	4631.1	4741.3	4915.1	5147.6	5186.8	5370.3
15°	4479.4	4454.9	4462.2	4450.0	4565.0	4621.3	4795.1	5013.0	5235.7	5301.8	5497.6
17.5°	4719.2	4721.7	4689.9	4662.9	4636.0	4756.0	4875.9	5071.7	5270.0	5436.4	5583.3
20°	5177.0	5096.2	5032.6	4880.8	4839.2	4890.6	5042.3	5230.8	5409.5	5546.6	5713.0
22.5°	5529.4	5536.8	5446.2	5196.6	5106.0	5128.0	5257.7	5412.0	5607.8	5705.7	5896.6
25°	6041.0	5989.6	5891.7	5693.4	5490.3	5507.4	5602.9	5742.4	5796.2	5864.8	6072.8
27.5°	6508.5	6523.2	6329.9	6143.8	5891.7	5842.8	6014.1	6038.6	5948.0	6077.7	6148.7
30°	6983.4	6971.2	6843.9	6626.0	6378.8	6388.6	6464.5	6344.5	6219.7	6290.7	6339.6
32.5°	7475.4	7335.9	7331.0	7135.2	6946.7	6856.1	6763.1	6821.8	6628.5	6643.2	6596.7
35°	7869.5	7889.1	7776.5	7636.9	7543.9	7384.8	7130.3	7235.5	7198.8	7181.7	6981.0
37.5°	8155.9	8080.0	8136.3	8089.8	8001.7	7803.4	7539.0	7639.4	7656.5	7739.8	7507.2
40°	8390.9	8359.0	8508.3	8532.8	8471.6	8043.3	7568.4	7867.0	8124.0	8305.2	8028.6
42.5°	8503.4	8572.0	8728.6	8917.1	8780.0	8322.3	7720.2	8040.8	8613.6	8900.0	8523.0
45°	8655.2	8567.1	8799.6	9144.8	9147.2	8557.3	7867.0	8275.8	8995.4	9411.6	8860.8
47.5°	8501.0	8545.1	8784.9	9223.1	9335.7	8804.5	8263.6	8608.7	9416.5	9786.1	9174.1
50°	8155.9	8244.0	8682.1	9137.4	9477.6	9066.4	8718.8	8968.5	9805.6	10087.1	9225.5
52.5°	7796.1	7845.0	8530.4	9203.5	9541.3	9404.2	9328.3	9465.4	10280.5	10427.4	9289.2
55°	6817.0	7049.5	8028.6	9174.1	9852.2	10013.7	9955.0	10155.7	10819.0	10965.9	9636.8
56°	6364.1	6486.5	7727.5	9037.1	9913.3	10236.4	10207.1	10297.6	11105.4	11259.6	9690.6
57.5°	5527.0	5536.8	6589.3	8430.0	9683.3	10302.5	10273.2	10344.1	11049.1	10943.8	9218.2
60°	3458.7	3610.4	4484.3	6484.1	8234.2	9558.4	9724.9	9154.5	9316.1	9093.4	7171.9
62.5°	1791.7	1769.7	2349.8	3791.5	5465.8	6843.9	6998.1	6971.2	6721.5	6395.9	4685.0
65°	893.4	898.3	1228.8	1877.4	2800.2	3583.5	4014.3	4060.8	3397.5	3125.8	2222.5
67.5°	648.7	673.1	883.6	1148.0	1319.3	1476.0	1808.9	1774.6	1343.8	1277.7	1184.7
70°	504.2	526.3	717.2	876.3	795.5	795.5	866.5	895.9	957.1	984.0	1015.8
72.5°	367.2	384.3	548.3	604.6	521.4	560.5	648.7	717.2	780.8	790.6	827.3
75°	252.1	266.8	359.8	332.9	313.3	386.7	474.9	538.5	585.0	609.5	631.5
77.5°	164.0	168.9	205.6	173.8	200.7	249.7	308.4	362.3	408.8	428.4	433.2
80°	73.4	80.8	88.1	110.1	139.5	178.7	220.3	264.4	293.7	301.1	315.8
82.5°	41.6	41.6	53.9	78.3	102.8	129.7	159.1	190.9	225.2	232.5	230.1
85°	22.0	22.0	31.8	46.5	63.6	75.9	73.4	75.9	80.8	93.0	90.6
87.5°	7.3	7.3	9.8	9.8	12.2	14.7	12.2	17.1	22.0	22.0	22.0
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°	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7	5027.7
2.5°	5020.3	5042.3	5013.0	5076.6	5076.6	5064.4	5003.2	5022.8	5037.4	5037.4	5049.7
5°	5115.8	5108.4	5128.0	5052.1	5005.6	4988.5	4888.1	4839.2	4797.6	4795.1	4758.4
7.5°	5169.6	5150.0	5142.7	5086.4	4880.8	4756.0	4540.6	4415.7	4388.8	4293.3	4330.1
10°	5255.3	5292.0	5255.3	4949.3	4662.9	4376.6	4166.1	3972.7	3896.8	3835.6	3798.9
12.5°	5431.5	5414.4	5201.4	4787.8	4386.3	4046.1	3732.8	3529.6	3453.8	3399.9	3395.0
15°	5580.8	5495.2	5169.6	4533.2	3955.5	3593.3	3336.3	3191.9	3157.6	3162.5	3184.5
17.5°	5632.2	5573.5	5003.2	4268.9	3634.9	3209.0	3089.0	3067.0	3098.8	3135.6	3145.3
20°	5713.0	5620.0	4934.6	3909.0	3238.4	2969.1	2961.8	3040.1	3098.8	3152.7	3160.0
22.5°	5881.9	5646.9	4711.9	3568.8	2966.7	2898.1	2969.1	3035.2	3125.8	3169.8	3130.7
25°	5930.9	5588.2	4398.6	3160.0	2795.3	2854.1	2929.9	3020.5	3084.2	3108.6	3125.8
27.5°	5972.5	5497.6	3975.1	2888.3	2741.5	2851.6	2929.9	3005.8	3040.1	3062.1	3081.7
30°	6090.0	5470.7	3608.0	2707.2	2707.2	2802.7	2903.0	2922.6	2969.1	2996.0	3030.3
32.5°	6148.7	5284.7	3231.0	2592.2	2672.9	2827.1	2834.5	2871.2	2873.6	2895.7	2859.0
35°	6302.9	5152.5	2881.0	2508.9	2687.6	2802.7	2839.4	2817.3	2697.4	2638.7	2650.9
37.5°	6415.5	5086.4	2628.9	2499.1	2690.1	2829.6	2849.2	2682.7	2557.9	2460.0	2484.5
40°	6719.0	4922.4	2437.9	2482.0	2712.1	2859.0	2805.1	2624.0	2398.8	2298.4	2281.3
42.5°	6951.6	4804.9	2318.0	2462.4	2729.2	2900.6	2783.1	2506.5	2276.4	2183.4	2207.9
45°	7220.8	4778.0	2254.4	2467.3	2758.6	2922.6	2756.2	2415.9	2171.1	2134.4	2127.1
47.5°	7316.3	4584.6	2185.8	2425.7	2751.3	2915.3	2665.6	2347.4	2132.0	2136.9	2156.5
50°	7157.2	4386.3	2134.4	2340.0	2702.3	2849.2	2523.6	2256.8	2110.0	2171.1	2205.4
52.5°	6954.0	4183.2	2029.2	2225.0	2601.9	2746.4	2457.5	2251.9	2087.9	2068.3	2075.7
55°	7015.2	4016.7	1882.3	2068.3	2440.4	2555.4	2384.1	2205.4	2034.1	1960.6	1985.1
56°	6817.0	3845.4	1786.8	1970.4	2330.2	2433.1	2347.4	2163.8	1990.0	1941.1	1941.1
57.5°	6256.4	3270.2	1662.0	1813.8	2097.7	2220.1	2276.4	2139.3	1941.1	1855.4	1857.8
60°	4614.0	2325.4	1490.7	1598.4	1737.9	1835.8	2097.7	2070.8	1818.7	1759.9	1737.9
62.5°	2844.3	1698.7	1368.3	1409.9	1480.9	1561.7	1830.9	1875.0	1688.9	1625.3	1610.6
65°	1593.5	1299.7	1275.3	1292.4	1326.7	1368.3	1520.0	1618.0	1490.7	1392.8	1387.9
67.5°	1165.1	1162.7	1182.3	1196.9	1211.6	1211.6	1248.3	1287.5	1270.4	1192.0	1184.7
70°	1035.4	1042.7	1057.4	1059.9	1064.8	1047.6	1018.3	1006.0	1025.6	976.6	966.9
72.5°	854.3	878.7	895.9	898.3	871.4	849.4	810.2	768.6	753.9	744.1	741.7
75°	656.0	673.1	680.5	678.0	668.2	636.4	589.9	548.3	521.4	492.0	506.7
77.5°	443.0	467.5	479.8	479.8	465.1	416.1	394.1	362.3	335.3	303.5	308.4
80°	310.9	328.0	347.6	345.1	320.7	296.2	264.4	235.0	213.0	188.5	186.0
82.5°	232.5	242.3	252.1	247.2	230.1	205.6	183.6	156.7	132.2	115.0	115.0
85°	83.2	90.6	110.1	115.0	124.8	124.8	105.3	88.1	71.0	58.7	58.7
87.5°	24.5	24.5	26.9	26.9	24.5	26.9	22.0	24.5	26.9	17.1	17.1
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)