

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: P533784

Luminaire Tested: **GALN-SA9B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533784
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-SA9B-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 37659 lumens
Efficiency: N/A
Efficacy: 103.5 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

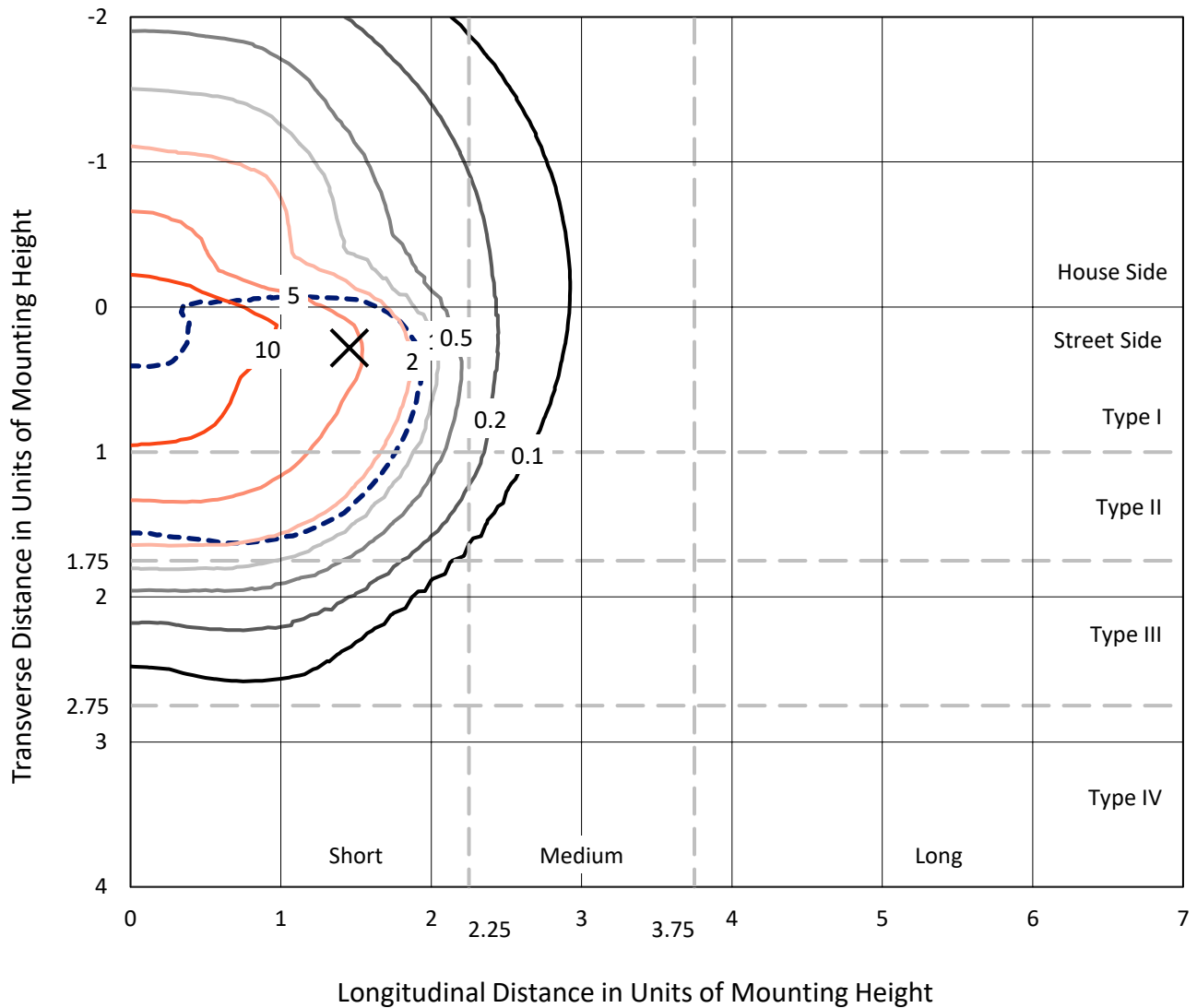
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

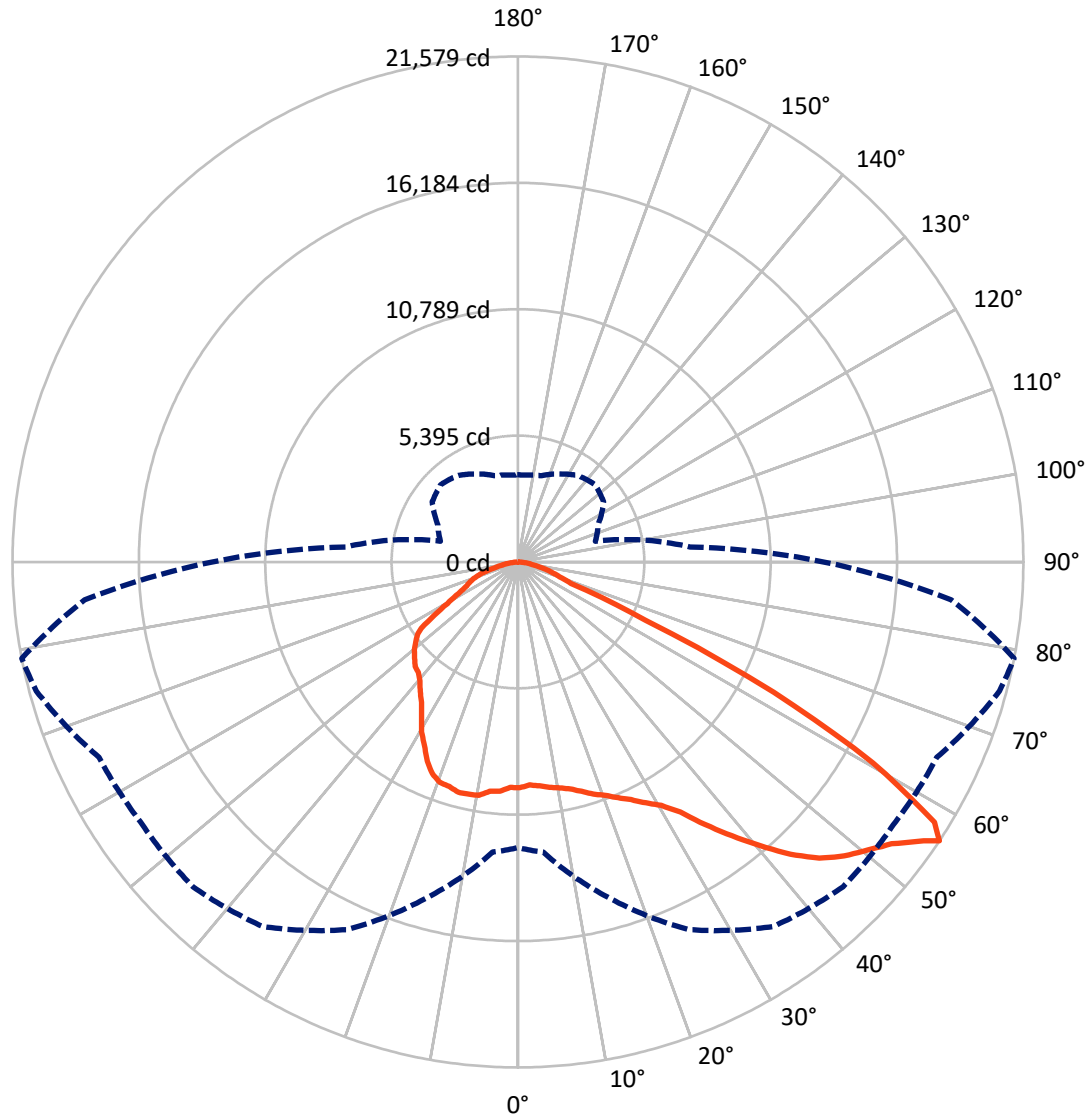
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	11121.5	0.0	11121.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	26537.5	0.0	26537.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	37659.0	0.0	37659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.0	2.3
10°-20°	2397.5	6.4
20°-30°	4101.6	10.9
30°-40°	6286.3	16.7
40°-50°	8495.9	22.6
50°-60°	9757.8	25.9
60°-70°	4447.9	11.8
70°-80°	1096.6	2.9
80°-90°	199.3	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°	37659.0	100.0
0°-180°	37659.0	100.0

Coefficient of Utilization

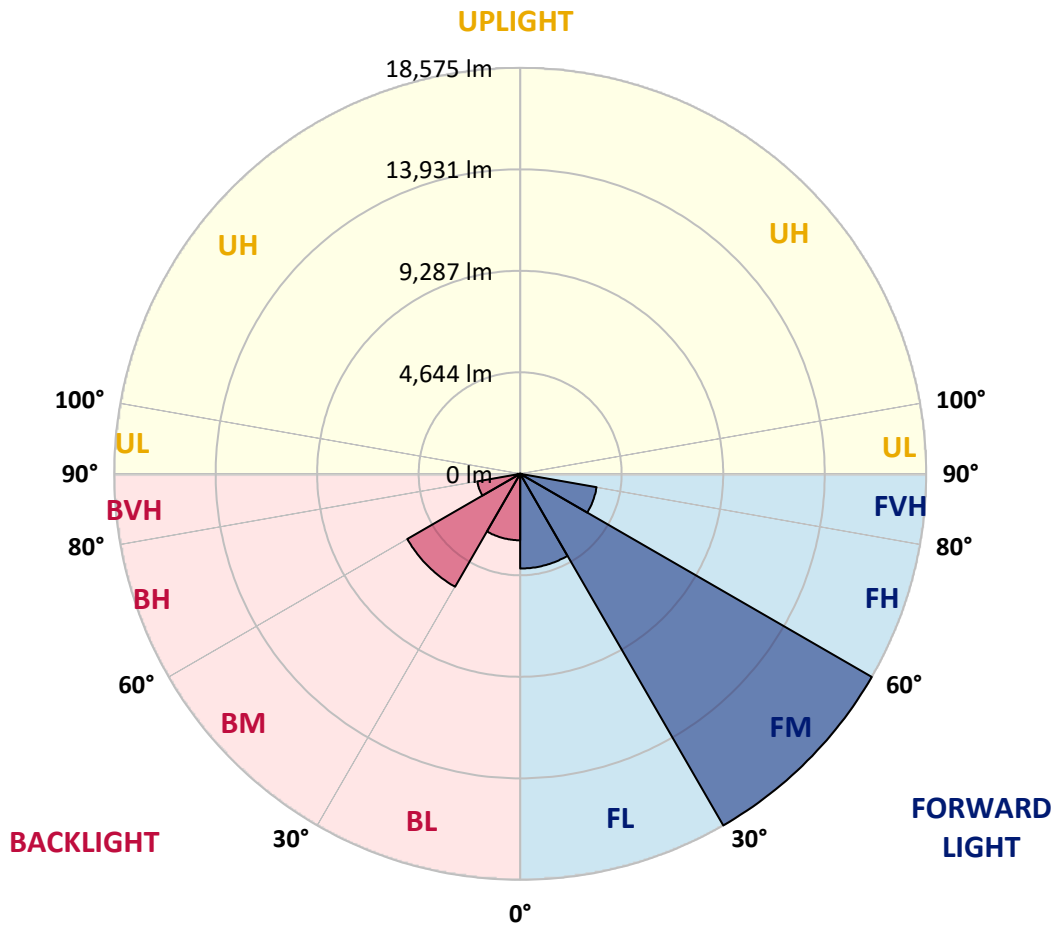


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4333.0	11.5			
FM (30°-60°)	18574.5	49.3			
FH (60°-80°)	3550.4	9.4			G2/5000
FVH (80°-90°)	79.6	0.2			G1/100
BL (0°-30°)	3042.2	8.1	B4/5000		
BM (30°-60°)	5965.4	15.8	B4/8500		
BH (60°-80°)	1994.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	119.7	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°	55°	65°	75°	79°	85°
0°	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4
2.5°	9166.3	9142.9	9199.2	9241.4	9293.0	9358.7	9391.5	9410.3	9574.5	9532.2	9658.9
5°	8969.3	8908.3	8950.6	8983.4	9072.5	9152.3	9241.4	9382.1	9532.2	9597.9	9752.7
7.5°	8795.7	8762.9	8753.5	8777.0	8898.9	9002.2	9157.0	9363.4	9607.3	9715.2	9804.3
10°	8509.6	8462.7	8533.0	8687.9	8720.7	8936.5	9114.7	9410.3	9621.4	9809.0	10071.7
12.5°	8382.9	8336.0	8350.1	8439.2	8669.1	8875.5	9086.6	9419.7	9865.3	9940.4	10292.2
15°	8584.6	8537.7	8551.8	8528.4	8748.8	8856.7	9189.8	9607.3	10034.2	10160.8	10536.1
17.5°	9044.4	9049.1	8988.1	8936.5	8884.9	9114.7	9344.6	9719.9	10099.9	10418.9	10700.3
20°	9921.6	9766.8	9644.8	9354.0	9274.2	9372.7	9663.6	10024.8	10367.3	10630.0	10948.9
22.5°	10597.1	10611.2	10437.6	9959.1	9785.6	9827.8	10076.4	10371.9	10747.2	10934.9	11300.8
25°	11577.5	11479.0	11291.4	10911.4	10522.1	10554.9	10737.8	11005.2	11108.4	11239.8	11638.5
27.5°	12473.5	12501.7	12131.1	11774.6	11291.4	11197.6	11525.9	11572.9	11399.3	11647.9	11784.0
30°	13383.6	13360.2	13116.2	12698.7	12224.9	12243.7	12389.1	12159.2	11920.0	12056.0	12149.9
32.5°	14326.5	14059.1	14049.7	13674.5	13313.2	13139.7	12961.4	13074.0	12703.4	12731.5	12642.4
35°	15081.8	15119.3	14903.5	14636.1	14457.9	14152.9	13665.1	13866.8	13796.4	13763.6	13378.9
37.5°	15630.6	15485.2	15593.1	15504.0	15335.1	14955.1	14448.5	14640.8	14673.7	14833.1	14387.5
40°	16081.0	16020.0	16306.1	16353.1	16235.8	15414.8	14504.8	15077.1	15569.6	15916.8	15386.7
42.5°	16296.8	16428.1	16728.3	17089.5	16826.8	15949.6	14795.6	15410.1	16507.9	17056.7	16334.3
45°	16587.6	16418.7	16864.4	17525.8	17530.5	16400.0	15077.1	15860.5	17239.7	18037.1	16981.7
47.5°	16292.1	16376.5	16836.2	17675.9	17891.7	16873.8	15837.0	16498.5	18046.5	18754.9	17582.1
50°	15630.6	15799.5	16639.2	17511.7	18163.8	17375.7	16709.6	17188.1	18792.4	19331.9	17680.6
52.5°	14941.0	15034.9	16348.4	17638.4	18285.8	18023.1	17877.6	18140.3	19702.5	19983.9	17802.6
55°	13064.6	13510.3	15386.7	17582.1	18881.5	19191.1	19078.6	19463.2	20734.5	21016.0	18468.7
56°	12196.8	12431.3	14809.7	17319.4	18998.8	19618.0	19561.7	19735.3	21283.4	21578.9	18571.9
57.5°	10592.4	10611.2	12628.3	16156.0	18557.9	19744.7	19688.4	19824.4	21175.5	20973.8	17666.5
60°	6628.5	6919.3	8594.0	12426.6	15780.7	18318.6	18637.6	17544.6	17854.2	17427.3	13744.8
62.5°	3433.9	3391.6	4503.4	7266.5	10475.1	13116.2	13411.8	13360.2	12881.7	12257.8	8978.7
65°	1712.2	1721.6	2354.9	3598.0	5366.6	6867.7	7693.3	7782.5	6511.2	5990.5	4259.5
67.5°	1243.1	1290.0	1693.5	2200.1	2528.5	2828.7	3466.7	3401.0	2575.4	2448.7	2270.5
70°	966.4	1008.6	1374.5	1679.4	1524.6	1524.6	1660.6	1716.9	1834.2	1885.8	1946.8
72.5°	703.7	736.5	1050.8	1158.7	999.2	1074.3	1243.1	1374.5	1496.4	1515.2	1585.6
75°	483.2	511.3	689.6	638.0	600.5	741.2	910.1	1032.0	1121.2	1168.1	1210.3
77.5°	314.3	323.7	394.0	333.1	384.7	478.5	591.1	694.3	783.4	820.9	830.3
80°	140.7	154.8	168.9	211.1	267.4	342.4	422.2	506.6	562.9	577.0	605.1
82.5°	79.7	79.7	103.2	150.1	197.0	248.6	304.9	365.9	431.6	445.7	441.0
85°	42.2	42.2	61.0	89.1	122.0	145.4	140.7	145.4	154.8	178.3	173.6
87.5°	14.1	14.1	18.8	18.8	23.5	28.1	23.5	32.8	42.2	42.2	42.2
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°	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4	9635.4
2.5°	9621.4	9663.6	9607.3	9729.3	9729.3	9705.8	9588.5	9626.1	9654.2	9654.2	9677.7
5°	9804.3	9790.3	9827.8	9682.4	9593.2	9560.4	9368.1	9274.2	9194.5	9189.8	9119.4
7.5°	9907.5	9870.0	9855.9	9748.0	9354.0	9114.7	8701.9	8462.7	8411.1	8228.1	8298.5
10°	10071.7	10142.1	10071.7	9485.3	8936.5	8387.6	7984.2	7613.6	7468.2	7350.9	7280.5
12.5°	10409.5	10376.6	9968.5	9175.7	8406.4	7754.3	7153.9	6764.5	6619.1	6515.9	6506.5
15°	10695.6	10531.4	9907.5	8687.9	7580.8	6886.5	6393.9	6117.1	6051.5	6060.9	6103.1
17.5°	10794.1	10681.6	9588.5	8181.2	6966.2	6150.0	5920.1	5877.9	5938.9	6009.3	6028.0
20°	10948.9	10770.7	9457.2	7491.6	6206.3	5690.3	5676.2	5826.3	5938.9	6042.1	6056.2
22.5°	11272.6	10822.3	9030.3	6839.6	5685.6	5554.2	5690.3	5816.9	5990.5	6074.9	5999.9
25°	11366.4	10709.7	8429.8	6056.2	5357.2	5469.8	5615.2	5788.8	5910.7	5957.7	5990.5
27.5°	11446.2	10536.1	7618.3	5535.5	5254.0	5465.1	5615.2	5760.6	5826.3	5868.5	5906.1
30°	11671.4	10484.5	6914.6	5188.3	5188.3	5371.3	5563.6	5601.1	5690.3	5741.9	5807.5
32.5°	11784.0	10128.0	6192.2	4967.8	5122.6	5418.2	5432.3	5502.6	5507.3	5549.5	5479.2
35°	12079.5	9874.7	5521.4	4808.3	5150.8	5371.3	5441.6	5399.4	5169.6	5057.0	5080.4
37.5°	12295.3	9748.0	5038.2	4789.6	5155.5	5422.9	5460.4	5141.4	4902.2	4714.5	4761.4
40°	12877.0	9433.7	4672.3	4756.7	5197.7	5479.2	5376.0	5028.8	4597.2	4404.9	4372.1
42.5°	13322.6	9208.6	4442.4	4719.2	5230.5	5558.9	5333.7	4803.7	4362.7	4184.4	4231.3
45°	13838.6	9157.0	4320.5	4728.6	5286.8	5601.1	5282.1	4630.1	4161.0	4090.6	4076.5
47.5°	14021.6	8786.4	4189.1	4648.8	5272.8	5587.1	5108.6	4498.7	4085.9	4095.3	4132.8
50°	13716.7	8406.4	4090.6	4484.7	5178.9	5460.4	4836.5	4325.2	4043.7	4161.0	4226.6
52.5°	13327.3	8017.0	3888.9	4264.2	4986.6	5263.4	4709.8	4315.8	4001.5	3963.9	3978.0
55°	13444.6	7698.0	3607.4	3963.9	4677.0	4897.5	4569.1	4226.6	3898.3	3757.5	3804.5
56°	13064.6	7369.7	3424.5	3776.3	4465.9	4662.9	4498.7	4146.9	3813.8	3720.0	3720.0
57.5°	11990.4	6267.3	3185.2	3476.1	4020.2	4254.8	4362.7	4100.0	3720.0	3555.8	3560.5
60°	8842.7	4456.5	2856.9	3063.3	3330.7	3518.3	4020.2	3968.6	3485.5	3372.9	3330.7
62.5°	5451.0	3255.6	2622.3	2702.1	2838.1	2992.9	3508.9	3593.4	3236.8	3114.9	3086.7
65°	3053.9	2491.0	2444.0	2476.9	2542.6	2622.3	2913.2	3100.8	2856.9	2669.2	2659.8
67.5°	2232.9	2228.3	2265.8	2293.9	2322.1	2322.1	2392.4	2467.5	2434.7	2284.5	2270.5
70°	1984.3	1998.4	2026.5	2031.2	2040.6	2007.8	1951.5	1928.0	1965.6	1871.7	1853.0
72.5°	1637.2	1684.1	1716.9	1721.6	1670.0	1627.8	1552.7	1473.0	1444.8	1426.1	1421.4
75°	1257.2	1290.0	1304.1	1299.4	1280.7	1219.7	1130.5	1050.8	999.2	942.9	971.1
77.5°	849.1	896.0	919.4	919.4	891.3	797.5	755.3	694.3	642.7	581.7	591.1
80°	595.8	628.6	666.1	661.4	614.5	567.6	506.6	450.3	408.1	361.2	356.5
82.5°	445.7	464.4	483.2	473.8	441.0	394.0	351.8	300.2	253.3	220.5	220.5
85°	159.5	173.6	211.1	220.5	239.2	239.2	201.7	168.9	136.0	112.6	112.6
87.5°	46.9	46.9	51.6	51.6	46.9	51.6	42.2	46.9	51.6	32.8	32.8
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)