

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: P531360

Luminaire Tested: **GALN-SA6C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25707 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

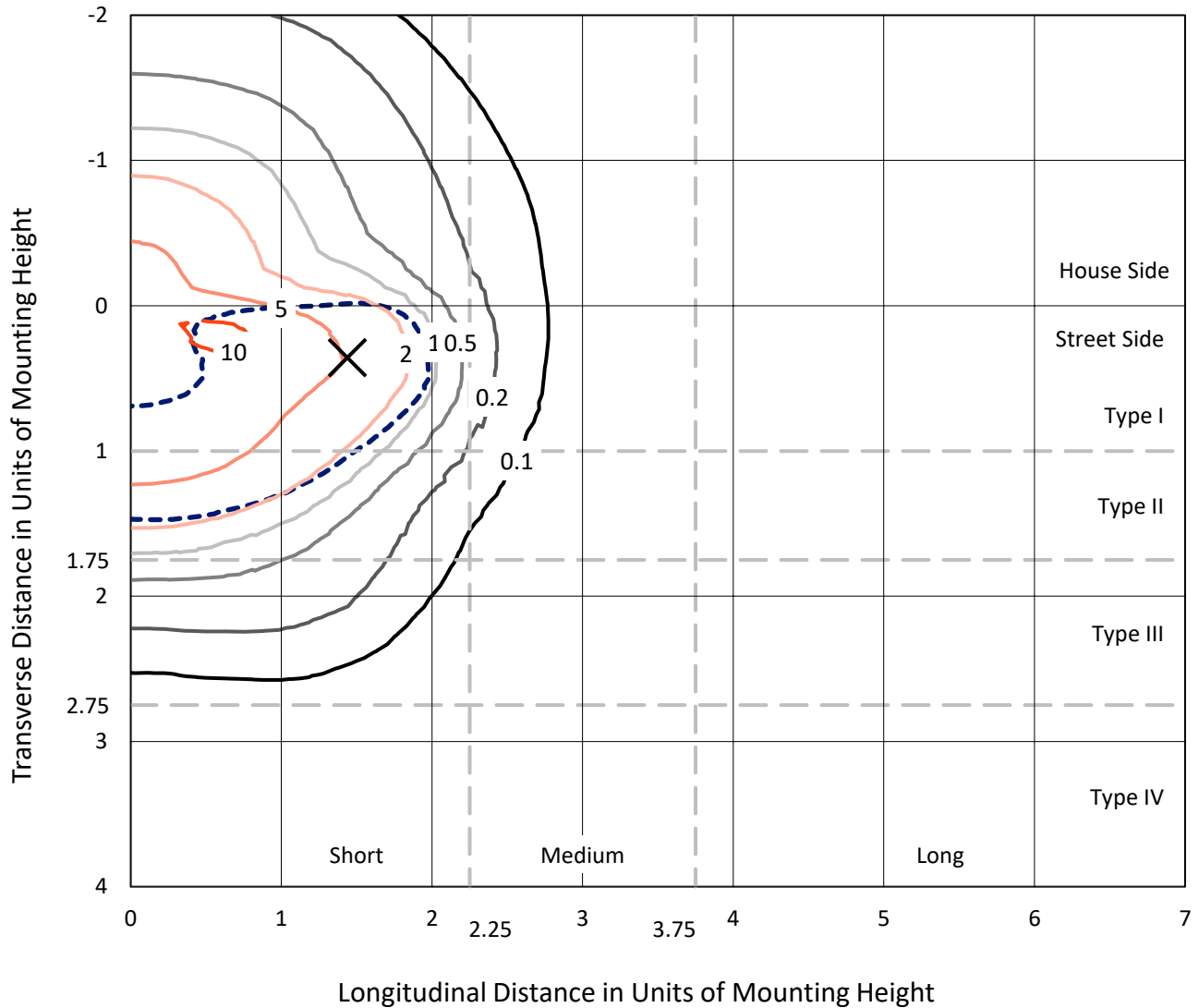
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

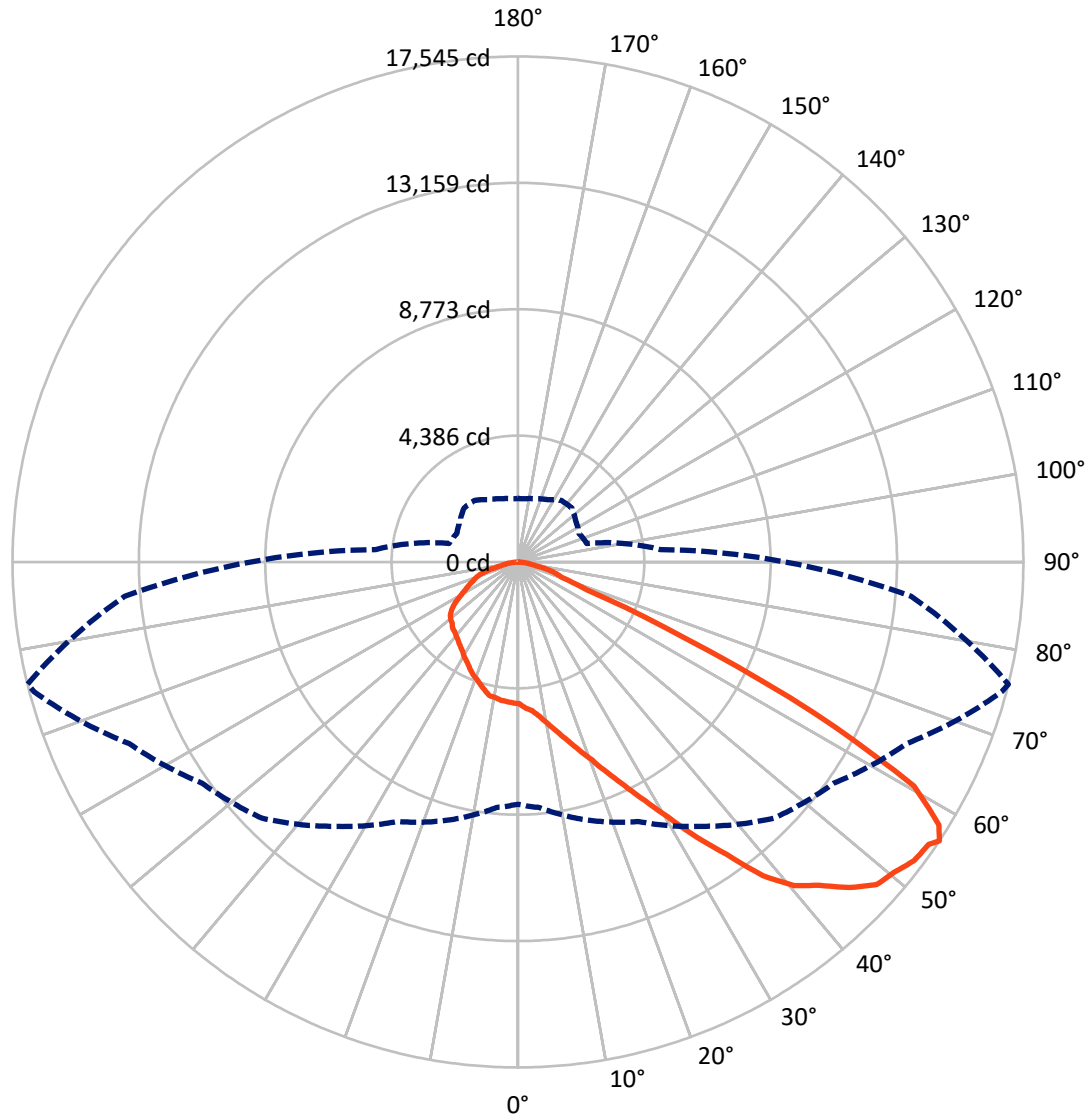
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6911.8	0.0	6911.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18795.2	0.0	18795.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	25707.0	0.0	25707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	1.9
10°-20°	1532.3	6.0
20°-30°	2679.8	10.4
30°-40°	4195.8	16.3
40°-50°	6103.6	23.7
50°-60°	6708.3	26.1
60°-70°	2994.3	11.6
70°-80°	864.9	3.4
80°-90°	140.3	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°	25707.0	100.0
0°-180°	25707.0	100.0

Coefficient of Utilization



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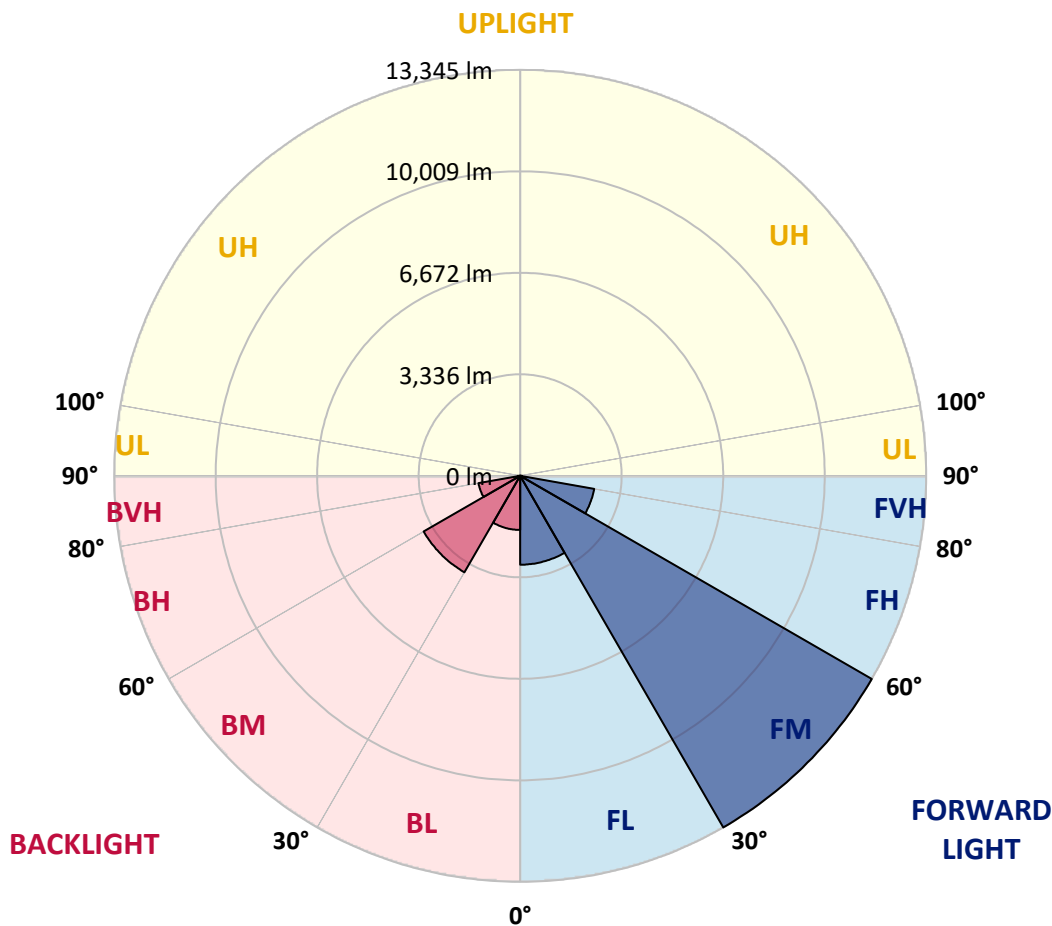
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2921.3	11.4			
FM (30°-60°)	13345.0	51.9			
FH (60°-80°)	2468.5	9.6			G2/5000
FVH (80°-90°)	60.4	0.2			G1/100
BL (0°-30°)	1778.5	6.9	B3/2500		
BM (30°-60°)	3662.7	14.2	B3/5000		
BH (60°-80°)	1390.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	79.9	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°	76°	85°
0°	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7
2.5°	5418.6	5331.9	5325.3	5301.9	5315.3	5255.3	5192.0	5108.7	5022.0	5075.3	4948.7
5°	5798.5	5681.8	5728.5	5648.5	5658.5	5578.5	5448.6	5351.9	5245.3	5182.0	5092.0
7.5°	5931.8	5941.8	5975.1	5961.8	5895.1	5895.1	5808.5	5638.5	5451.9	5415.2	5265.3
10°	6111.7	6115.1	6078.4	6088.4	6181.7	6138.4	6061.7	5988.4	5748.5	5705.2	5438.6
12.5°	6175.0	6115.1	6175.0	6228.4	6338.3	6398.3	6381.7	6328.3	6071.7	6041.7	5651.8
15°	6185.0	6148.4	6198.4	6318.3	6415.0	6668.2	6794.9	6758.2	6418.3	6421.6	5891.8
17.5°	6138.4	6188.4	6208.4	6311.7	6534.9	6771.5	7138.1	7188.1	6908.2	6864.9	6195.0
20°	6201.7	6165.0	6191.7	6285.0	6581.6	6951.5	7431.4	7761.3	7368.1	7338.1	6508.3
22.5°	6445.0	6395.0	6388.3	6448.3	6661.6	7044.8	7741.3	8334.5	7927.9	7944.6	6898.2
25°	6634.9	6661.6	6638.3	6634.9	6768.2	7184.8	8151.2	9017.6	8687.7	8591.1	7358.1
27.5°	6961.5	7024.8	6978.2	7041.5	7011.5	7394.7	8444.4	9774.1	9507.5	9377.5	7774.6
30°	7414.7	7448.0	7404.7	7404.7	7314.7	7688.0	8711.0	10563.9	10453.9	10277.3	8264.5
32.5°	8011.2	8061.2	7974.6	7924.6	7911.2	8124.5	9190.9	11343.7	11530.3	11380.3	8914.3
35°	8801.0	8771.0	8667.7	8621.1	8441.1	8794.4	9904.1	12240.1	12730.0	12463.4	9700.8
37.5°	9497.5	9450.8	9444.2	9184.2	9227.6	9517.5	10510.6	12919.9	13893.0	13816.4	10530.6
40°	10147.3	10190.6	10260.6	10114.0	10047.4	10367.3	11217.0	13439.8	14796.1	14766.1	11170.4
42.5°	10843.8	10803.8	10927.1	10803.8	10703.8	11157.1	11983.5	13799.7	15589.2	15342.6	11840.2
45°	11853.5	11726.9	11770.2	11780.2	11706.9	11873.5	12300.1	14059.6	16145.7	16119.1	12330.1
47.5°	12696.7	12700.0	12626.7	12570.0	12346.7	12513.4	12653.3	14222.9	16785.6	16742.3	12520.0
50°	13009.9	12966.6	13179.9	13303.2	13316.5	12976.6	12929.9	14312.9	17122.2	16932.2	12710.0
52.5°	11883.5	11923.5	12260.1	12993.2	13416.5	13453.1	13253.2	14499.5	17258.8	17218.8	12863.3
55°	9564.1	9757.4	10310.6	11157.1	12160.1	13263.2	13603.1	14692.8	17332.1	17298.8	13543.1
56°	8407.8	8557.7	9277.6	9940.7	11200.4	12573.4	13383.1	14899.4	17388.8	17545.4	13703.1
57.5°	6768.2	6941.5	7458.0	8211.2	9697.4	11260.4	12776.6	14646.1	17168.8	17228.8	13819.7
60°	4232.2	4248.9	4868.7	5365.3	6411.6	7937.9	9750.8	12743.3	15889.1	15802.5	12413.4
62.5°	2775.9	2779.3	3342.5	3749.0	4225.6	4575.5	5738.5	8451.1	11723.6	11570.3	8837.7
65°	1949.5	1992.8	2429.4	2972.6	3165.8	2982.5	2945.9	4455.5	6548.3	6328.3	4748.7
67.5°	1426.3	1429.6	1816.2	2399.4	2679.3	2269.4	1842.8	2176.1	2592.7	2586.0	2199.4
70°	943.1	983.1	1279.7	1792.9	2112.8	1822.9	1506.3	1556.3	1649.6	1649.6	1636.2
72.5°	549.9	586.5	783.1	1136.4	1186.4	1139.7	1193.0	1333.0	1393.0	1389.6	1373.0
75°	313.3	329.9	373.2	473.2	589.8	696.5	876.4	1009.7	1069.7	1106.4	1063.1
77.5°	183.3	193.3	219.9	269.9	306.6	376.6	476.5	569.8	649.8	639.8	646.5
80°	96.6	96.6	123.3	160.0	213.3	266.6	316.6	369.9	413.2	423.2	433.2
82.5°	56.7	60.0	80.0	116.6	153.3	189.9	243.3	279.9	319.9	323.2	329.9
85°	30.0	33.3	50.0	76.6	103.3	116.6	120.0	113.3	123.3	116.6	133.3
87.5°	10.0	10.0	16.7	13.3	13.3	16.7	20.0	20.0	26.7	26.7	26.7
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°	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7	4918.7
2.5°	4945.4	4945.4	4888.7	4782.1	4765.4	4722.1	4682.1	4678.8	4648.8	4622.1	4608.8
5°	5038.7	4935.4	4852.1	4755.4	4642.1	4588.8	4528.8	4462.2	4435.5	4462.2	4458.8
7.5°	5145.3	5058.7	4808.7	4628.8	4498.8	4445.5	4378.8	4308.9	4315.5	4315.5	4268.9
10°	5248.6	5132.0	4732.1	4502.1	4312.2	4272.2	4235.6	4262.2	4295.5	4302.2	4272.2
12.5°	5421.9	5158.6	4695.4	4375.5	4255.5	4168.9	4192.2	4265.5	4335.5	4315.5	4338.9
15°	5551.9	5182.0	4528.8	4245.5	4095.6	4135.6	4218.9	4268.9	4385.5	4372.2	4395.5
17.5°	5678.5	5195.3	4365.5	4072.3	4008.9	4118.9	4182.2	4325.5	4362.2	4442.2	4472.2
20°	5938.4	5222.0	4198.9	3965.6	3945.6	4072.3	4182.2	4248.9	4328.9	4398.8	4398.8
22.5°	6071.7	5208.6	4088.9	3825.7	3889.0	3969.0	4068.9	4182.2	4182.2	4248.9	4252.2
25°	6238.4	5155.3	3915.6	3759.0	3805.7	3882.3	3995.6	3955.6	3998.9	3998.9	4052.3
27.5°	6428.3	5042.0	3765.7	3639.0	3732.4	3815.7	3832.3	3805.7	3755.7	3749.0	3729.0
30°	6581.6	4902.0	3655.7	3599.1	3675.7	3722.4	3669.0	3612.4	3525.7	3519.1	3472.4
32.5°	6791.5	4728.8	3519.1	3499.1	3585.7	3589.1	3572.4	3485.7	3359.1	3305.8	3252.5
35°	7144.8	4628.8	3415.8	3445.8	3472.4	3462.4	3432.4	3339.1	3212.5	3189.2	3169.2
37.5°	7404.7	4555.5	3309.1	3345.8	3369.1	3382.4	3292.5	3189.2	3192.5	3145.8	3132.5
40°	7698.0	4508.8	3222.5	3239.1	3242.5	3285.8	3175.8	3125.8	3149.2	3119.2	3139.2
42.5°	8074.5	4522.1	3132.5	3119.2	3182.5	3165.8	3112.5	3045.9	3059.2	2969.2	2982.5
45°	8274.5	4612.1	3079.2	3019.2	3089.2	3085.9	3015.9	2952.6	2872.6	2699.3	2706.0
47.5°	8407.8	4635.4	2952.6	2912.6	2985.9	3029.2	2949.2	2802.6	2689.3	2566.0	2536.0
50°	8544.4	4678.8	2892.6	2809.3	2839.3	2942.6	2842.6	2702.6	2592.7	2482.7	2499.3
52.5°	8664.4	4762.1	2775.9	2652.6	2706.0	2819.3	2765.9	2596.0	2476.0	2386.0	2359.4
55°	9197.6	4948.7	2579.3	2419.4	2546.0	2689.3	2659.3	2452.7	2322.7	2276.1	2269.4
56°	9280.9	4955.4	2476.0	2339.4	2456.0	2646.0	2609.3	2389.4	2272.7	2199.4	2202.8
57.5°	9294.2	4875.4	2329.4	2266.1	2366.0	2582.7	2536.0	2339.4	2179.4	2112.8	2092.8
60°	8177.8	3805.7	2146.1	2106.1	2222.7	2389.4	2372.7	2202.8	2022.8	1946.2	1982.8
62.5°	5575.2	2789.3	2002.8	1996.1	2056.1	2219.4	2176.1	2022.8	1872.8	1822.9	1799.5
65°	3245.8	2116.1	1862.8	1836.2	1886.2	1972.8	2002.8	1842.8	1686.2	1652.9	1642.9
67.5°	1916.2	1749.5	1682.9	1639.6	1622.9	1676.2	1699.6	1606.2	1449.6	1403.0	1443.0
70°	1602.9	1556.3	1559.6	1486.3	1446.3	1409.6	1389.6	1306.3	1176.4	1116.4	1099.7
72.5°	1383.0	1363.0	1349.6	1283.0	1246.3	1163.0	1076.4	993.1	896.4	846.4	849.8
75°	1056.4	1049.7	1056.4	1023.1	959.7	893.1	813.1	706.5	633.2	569.8	583.2
77.5°	629.8	649.8	659.8	646.5	619.8	559.9	509.9	439.9	369.9	319.9	313.3
80°	433.2	449.9	466.5	449.9	423.2	379.9	326.6	273.3	223.3	196.6	189.9
82.5°	329.9	346.6	356.6	339.9	306.6	259.9	223.3	186.6	146.6	120.0	113.3
85°	120.0	136.6	133.3	160.0	173.3	166.6	143.3	110.0	83.3	60.0	56.7
87.5°	33.3	30.0	33.3	33.3	33.3	30.0	26.7	26.7	26.7	16.7	13.3
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)