

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: P530319

Luminaire Tested: **GALN-SA5C-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19347 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

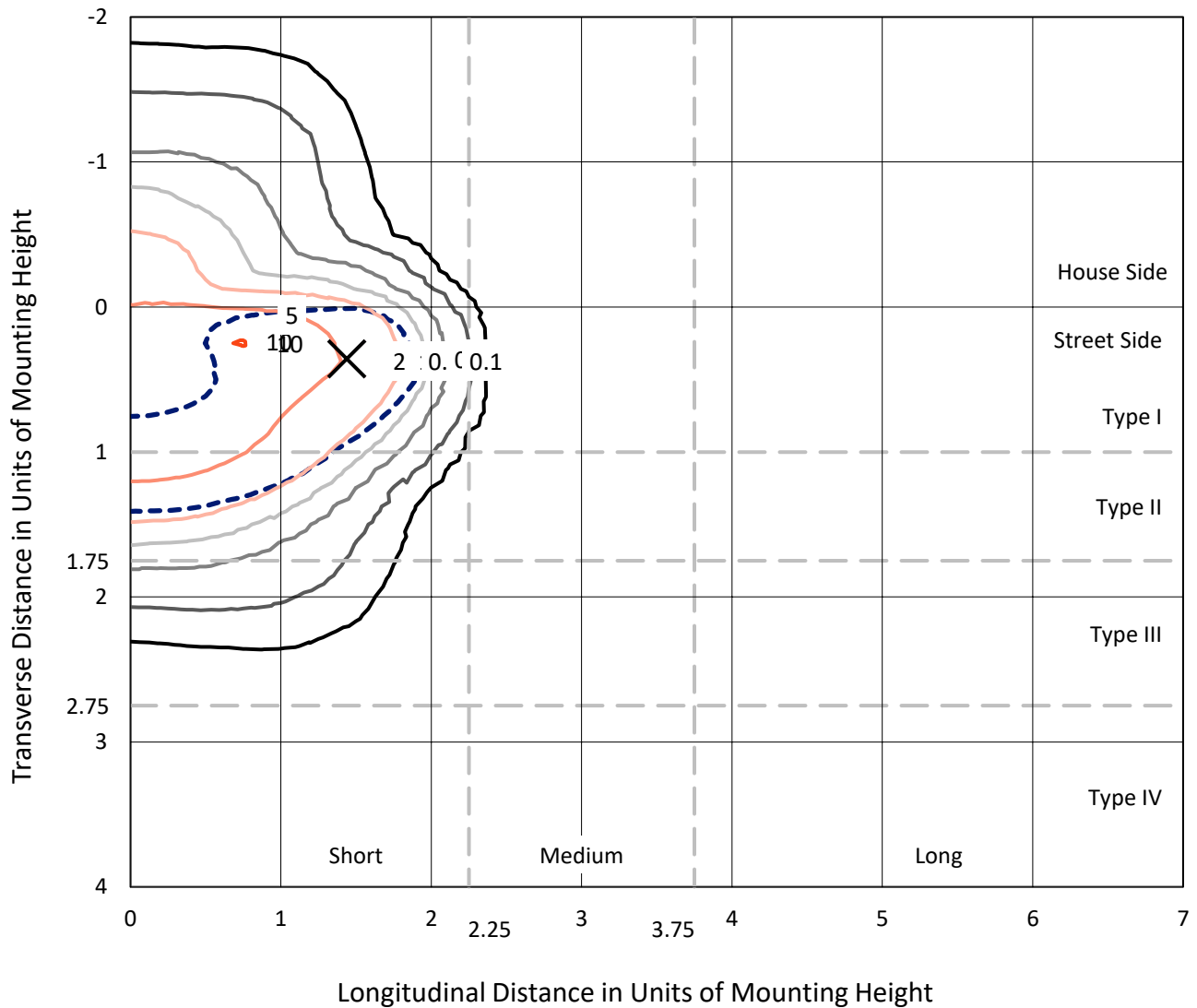
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530319  
 CATALOG NUMBER: GALN-SA5C-735-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

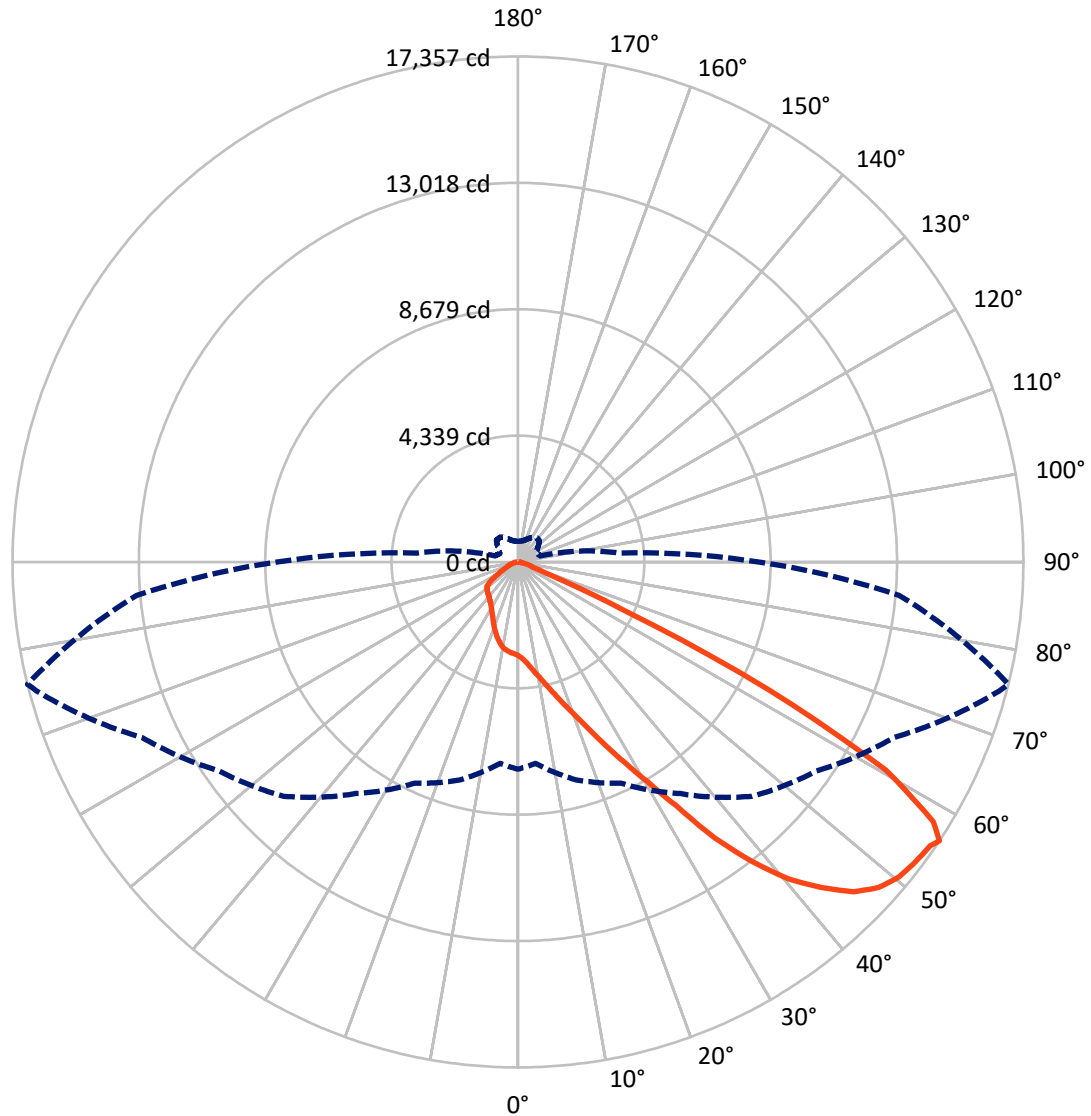
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P530319  
CATALOG NUMBER: GALN-SA5C-735-U-T2-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P530319  
 CATALOG NUMBER: GALN-SA5C-735-U-T2-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3039.3	0.0	3039.3
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	16307.7	0.0	16307.7
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	19347.0	0.0	19347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.4	1.7
10°-20°	1042.2	5.4
20°-30°	1889.8	9.8
30°-40°	3259.0	16.8
40°-50°	5294.3	27.4
50°-60°	5580.4	28.8
60°-70°	1705.1	8.8
70°-80°	218.6	1.1
80°-90°	33.2	0.2
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°	19347.0	100.0
0°-180°	19347.0	100.0

**Coefficient of Utilization**

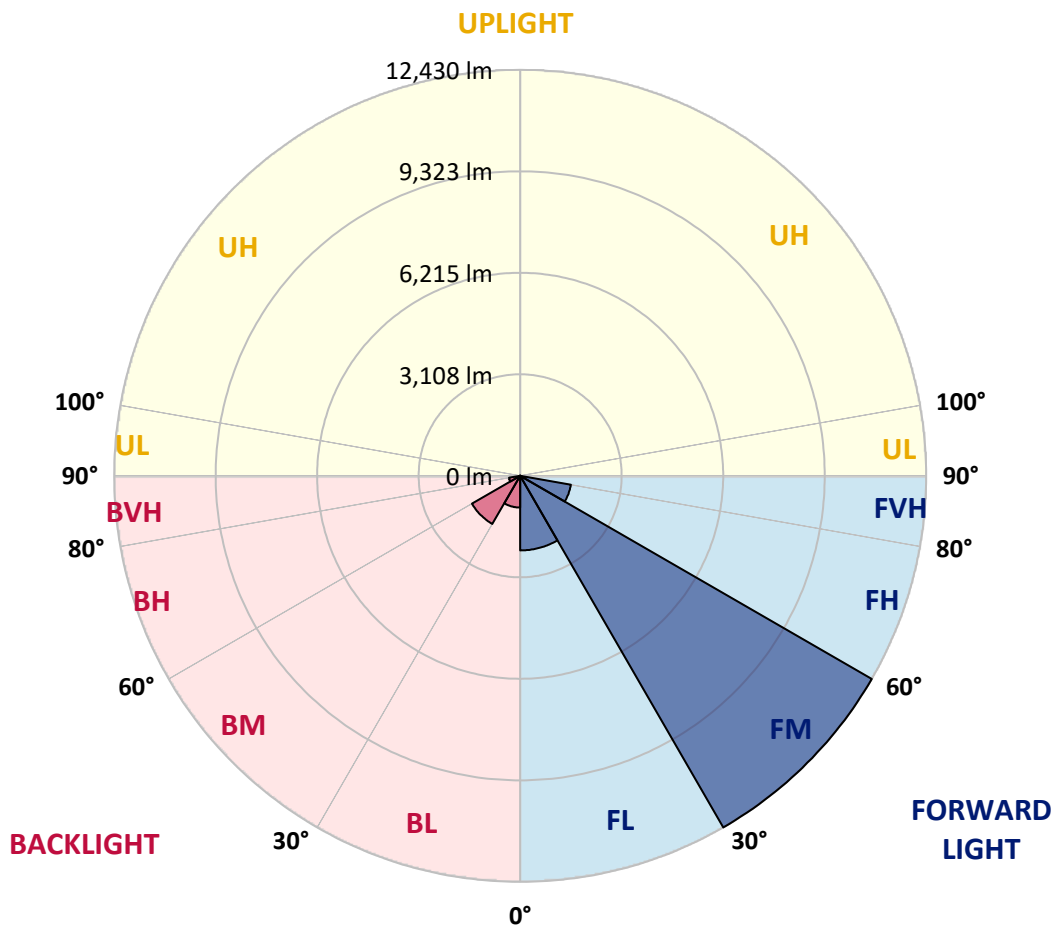


REPORT NUMBER: P530319  
 CATALOG NUMBER: GALN-SA5C-735-U-T2-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2284.1	11.8			
FM (30°-60°)	12430.4	64.2			
FH (60°-80°)	1576.9	8.2			G1/1800
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	972.3	5.0	B2/1000		
BM (30°-60°)	1703.4	8.8	B2/2500		
BH (60°-80°)	346.7	1.8	B1/500		G1/500
BVH (80°-90°)	16.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





REPORT NUMBER: P530319

CATALOG NUMBER: GALN-SA5C-735-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3
2.5°	3708.9	3623.3	3626.9	3619.8	3609.1	3569.8	3452.1	3434.3	3355.9	3334.5	3263.1
5°	4154.7	4079.8	4122.6	4058.4	3997.8	3962.1	3769.5	3680.4	3555.6	3509.2	3409.3
7.5°	4432.9	4397.2	4382.9	4386.5	4329.4	4240.3	4154.7	3958.6	3790.9	3755.3	3544.9
10°	4568.4	4547.0	4568.4	4557.7	4582.7	4593.3	4443.6	4325.9	4079.8	4019.2	3691.1
12.5°	4600.5	4643.3	4661.1	4707.5	4768.1	4871.5	4860.8	4700.3	4372.2	4333.0	3915.8
15°	4678.9	4714.6	4696.8	4771.7	4885.8	5060.5	5153.3	5128.3	4775.2	4703.9	4176.1
17.5°	4750.3	4686.1	4746.7	4896.5	5010.6	5278.1	5502.7	5606.2	5213.9	5131.9	4415.0
20°	4846.6	4828.7	4818.0	4892.9	5096.2	5452.8	5898.6	6087.6	5706.0	5620.4	4757.4
22.5°	5139.0	5142.6	5135.4	5024.9	5171.1	5574.1	6244.5	6711.7	6294.5	6223.1	5146.1
25°	5524.1	5477.8	5442.1	5353.0	5335.1	5684.6	6594.0	7474.9	7000.6	6950.7	5566.9
27.5°	5930.7	5930.7	5823.7	5741.7	5627.6	5959.2	6915.0	8216.7	7852.9	7785.2	5934.3
30°	6372.9	6397.9	6383.6	6208.9	6137.5	6258.8	7243.1	9165.3	8830.1	8744.5	6540.5
32.5°	7025.5	6972.0	7032.7	6886.5	6676.0	6783.0	7760.2	10014.1	10099.7	9978.4	7335.8
35°	7888.6	7856.5	7817.3	7578.3	7328.7	7414.3	8491.3	11059.0	11693.8	11633.2	8138.2
37.5°	8662.5	8644.6	8612.5	8448.5	8159.6	8263.0	9322.2	12146.7	13248.7	13049.0	9272.3
40°	9475.6	9571.9	9468.4	9322.2	9058.3	9286.6	10299.4	12792.2	14557.5	14315.0	10138.9
42.5°	10577.5	10502.7	10549.0	10281.5	10138.9	10388.5	11280.1	13437.7	15573.9	15285.0	11059.0
45°	11750.8	11754.4	11629.6	11544.0	11173.1	11444.1	11882.8	13794.3	16383.4	16158.7	11754.4
47.5°	12503.3	12499.8	12635.3	12770.8	12389.2	12121.7	12292.9	14133.1	16800.7	16697.3	12007.6
50°	12385.6	12421.3	12596.0	13102.5	13302.2	12942.0	12678.1	14033.3	16989.7	16979.0	12225.2
52.5°	10773.7	10891.4	11183.8	11914.9	12920.6	13366.4	13081.1	14218.7	17082.4	17100.2	12549.7
55°	8202.4	8266.6	8822.9	9710.9	10823.6	12350.0	12920.6	14364.9	17153.7	17185.8	12942.0
56°	7114.7	6943.5	7745.9	8377.2	9707.4	11376.4	12514.0	14250.8	17110.9	17357.0	13138.1
57.5°	5370.8	5256.7	5905.7	6693.9	7974.2	9735.9	11251.6	13712.3	16822.1	16818.5	12856.4
60°	3266.7	3152.6	3651.9	4115.5	4832.3	5994.9	7603.3	10919.9	14222.3	14521.8	10409.9
62.5°	1943.6	2014.9	2507.1	2788.8	3020.6	3141.9	3933.6	6490.6	9489.8	9703.8	6458.5
65°	1294.6	1319.5	1690.4	2154.0	2257.4	1797.4	1601.3	2628.3	4115.5	3983.5	2664.0
67.5°	798.8	855.9	1134.1	1619.1	1793.8	1312.4	759.6	980.7	1134.1	1134.1	770.3
70°	485.0	513.5	756.0	1102.0	1230.4	845.2	552.8	552.8	545.6	534.9	460.0
72.5°	231.8	249.6	385.2	567.0	577.7	445.8	428.0	467.2	456.5	452.9	381.6
75°	99.9	107.0	135.5	178.3	203.3	189.0	260.3	335.2	345.9	335.2	274.6
77.5°	32.1	35.7	49.9	64.2	67.8	82.0	110.6	139.1	160.5	149.8	135.5
80°	3.6	7.1	14.3	32.1	49.9	64.2	82.0	92.7	103.4	103.4	96.3
82.5°	3.6	3.6	14.3	28.5	46.4	60.6	78.5	89.2	103.4	107.0	99.9
85°	0.0	3.6	10.7	25.0	39.2	39.2	35.7	35.7	25.0	25.0	25.0
87.5°	0.0	0.0	3.6	3.6	3.6	7.1	7.1	7.1	7.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530319

CATALOG NUMBER: GALN-SA5C-735-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3	3220.3
2.5°	3248.9	3241.7	3145.4	3084.8	3052.7	2988.5	2949.3	2920.8	2899.4	2874.4	2878.0
5°	3291.7	3266.7	3106.2	2995.7	2863.7	2792.4	2731.8	2681.8	2649.7	2642.6	2628.3
7.5°	3412.9	3281.0	3038.5	2838.7	2671.1	2599.8	2546.3	2514.2	2528.5	2496.4	2521.3
10°	3505.6	3309.5	2956.4	2667.6	2500.0	2446.5	2417.9	2442.9	2478.6	2464.3	2446.5
12.5°	3619.8	3338.0	2824.5	2503.5	2346.6	2307.4	2357.3	2403.7	2475.0	2503.5	2467.9
15°	3748.1	3370.1	2656.9	2314.5	2214.7	2246.7	2332.3	2414.4	2485.7	2521.3	2542.7
17.5°	3905.1	3359.4	2492.8	2164.7	2089.8	2182.6	2286.0	2360.9	2467.9	2521.3	2507.1
20°	4051.3	3323.8	2310.9	2014.9	2018.5	2104.1	2189.7	2310.9	2368.0	2439.3	2414.4
22.5°	4190.4	3259.6	2121.9	1911.5	1911.5	2043.5	2086.3	2164.7	2214.7	2250.3	2246.7
25°	4386.5	3138.3	1965.0	1811.7	1854.5	1940.0	1975.7	2000.7	1979.3	2007.8	2011.4
27.5°	4525.6	3013.5	1836.6	1722.5	1801.0	1865.2	1854.5	1840.2	1790.3	1751.0	1776.0
30°	4675.4	2867.3	1726.1	1661.9	1704.7	1761.7	1718.9	1676.1	1597.7	1533.5	1537.1
32.5°	4889.3	2799.5	1629.8	1590.6	1647.6	1654.7	1608.4	1544.2	1465.7	1405.1	1401.5
35°	5288.8	2756.7	1547.8	1544.2	1554.9	1558.5	1512.1	1433.6	1401.5	1351.6	1369.4
37.5°	5688.2	2735.3	1490.7	1476.4	1472.9	1476.4	1422.9	1348.0	1408.7	1405.1	1412.2
40°	6198.2	2831.6	1408.7	1390.8	1394.4	1394.4	1326.7	1305.3	1412.2	1422.9	1426.5
42.5°	6715.3	2952.9	1355.2	1298.1	1312.4	1312.4	1276.7	1251.8	1326.7	1255.3	1244.6
45°	7164.6	3131.2	1298.1	1205.4	1241.1	1258.9	1248.2	1205.4	1159.0	1037.8	1037.8
47.5°	7310.8	3288.1	1230.4	1116.2	1144.8	1223.2	1191.1	1102.0	1020.0	920.1	913.0
50°	7567.6	3459.3	1176.9	1012.8	1073.4	1169.7	1137.6	1048.5	955.8	884.4	888.0
52.5°	7831.5	3655.4	1077.0	891.6	966.5	1126.9	1126.9	1027.1	884.4	834.5	827.4
55°	8227.4	3648.3	898.7	731.1	863.0	1062.7	1080.6	920.1	791.7	752.5	752.5
56°	8284.4	3484.2	809.5	684.7	816.7	1044.9	1048.5	891.6	756.0	713.3	713.3
57.5°	7856.5	3145.4	709.7	627.7	759.6	1012.8	1016.4	866.6	727.5	666.9	659.8
60°	6044.8	2129.1	592.0	559.9	688.3	913.0	930.8	788.1	638.4	592.0	588.4
62.5°	3412.9	1180.4	520.7	506.4	592.0	777.4	830.9	688.3	542.1	517.1	524.2
65°	1558.5	649.1	438.7	410.1	477.9	599.1	670.5	567.0	445.8	417.3	417.3
67.5°	570.6	442.2	374.5	324.5	335.2	388.7	435.1	367.3	296.0	253.2	263.9
70°	406.6	370.9	328.1	281.7	260.3	253.2	249.6	206.8	146.2	114.1	121.3
72.5°	328.1	306.7	274.6	238.9	203.3	171.2	146.2	107.0	67.8	46.4	42.8
75°	235.4	224.7	199.7	171.2	142.7	121.3	99.9	67.8	35.7	17.8	17.8
77.5°	121.3	121.3	117.7	107.0	89.2	71.3	57.1	39.2	21.4	7.1	7.1
80°	92.7	99.9	103.4	92.7	82.0	64.2	46.4	28.5	14.3	3.6	3.6
82.5°	89.2	103.4	110.6	96.3	82.0	60.6	46.4	28.5	14.3	3.6	3.6
85°	21.4	21.4	32.1	35.7	46.4	49.9	39.2	25.0	10.7	3.6	3.6
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	3.6	3.6	3.6	3.6	0.0
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)