

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: P458996

Luminaire Tested: **GALN-SA5A-735-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17081 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

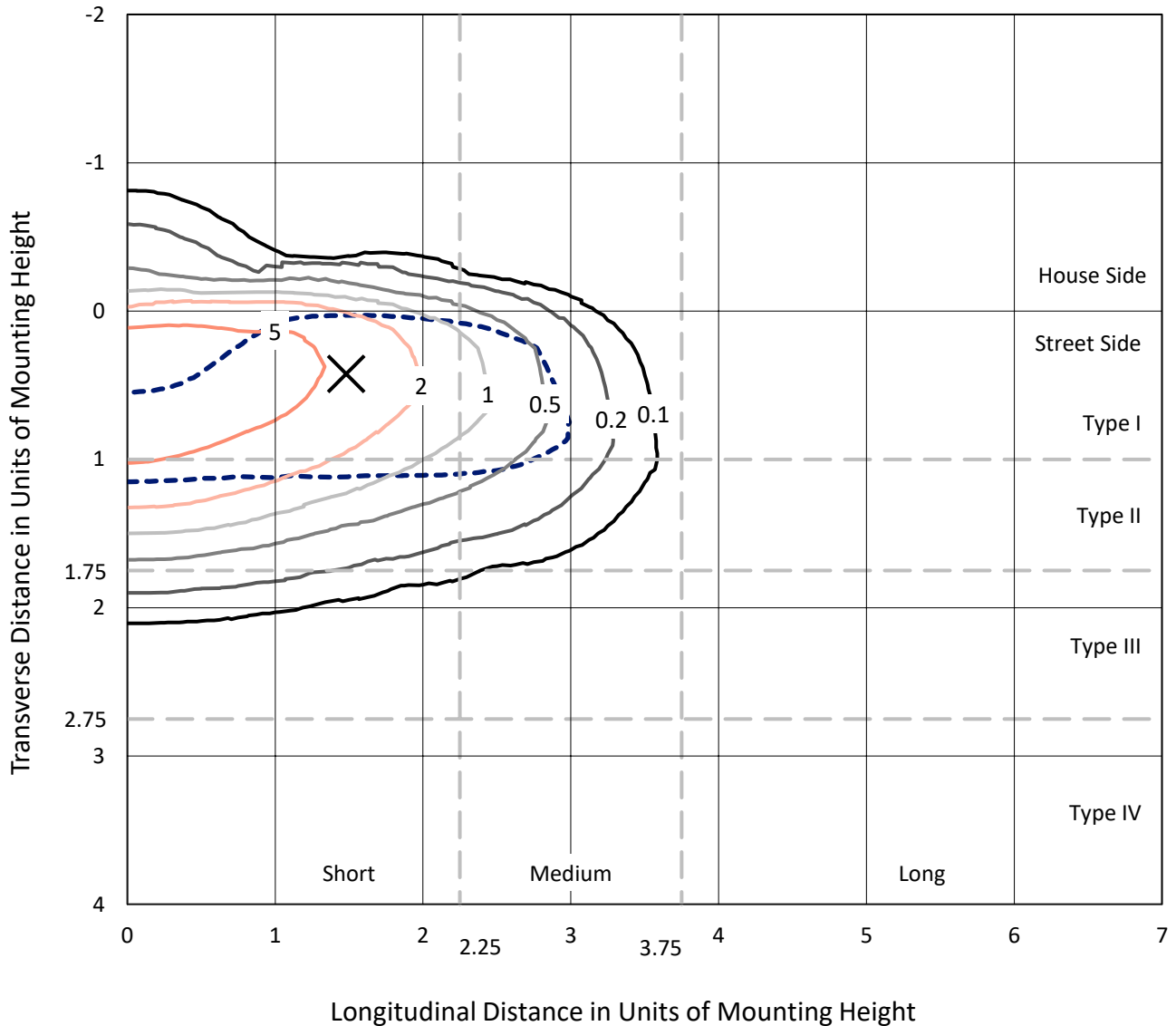
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458996  
 CATALOG NUMBER: GALN-SA5A-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

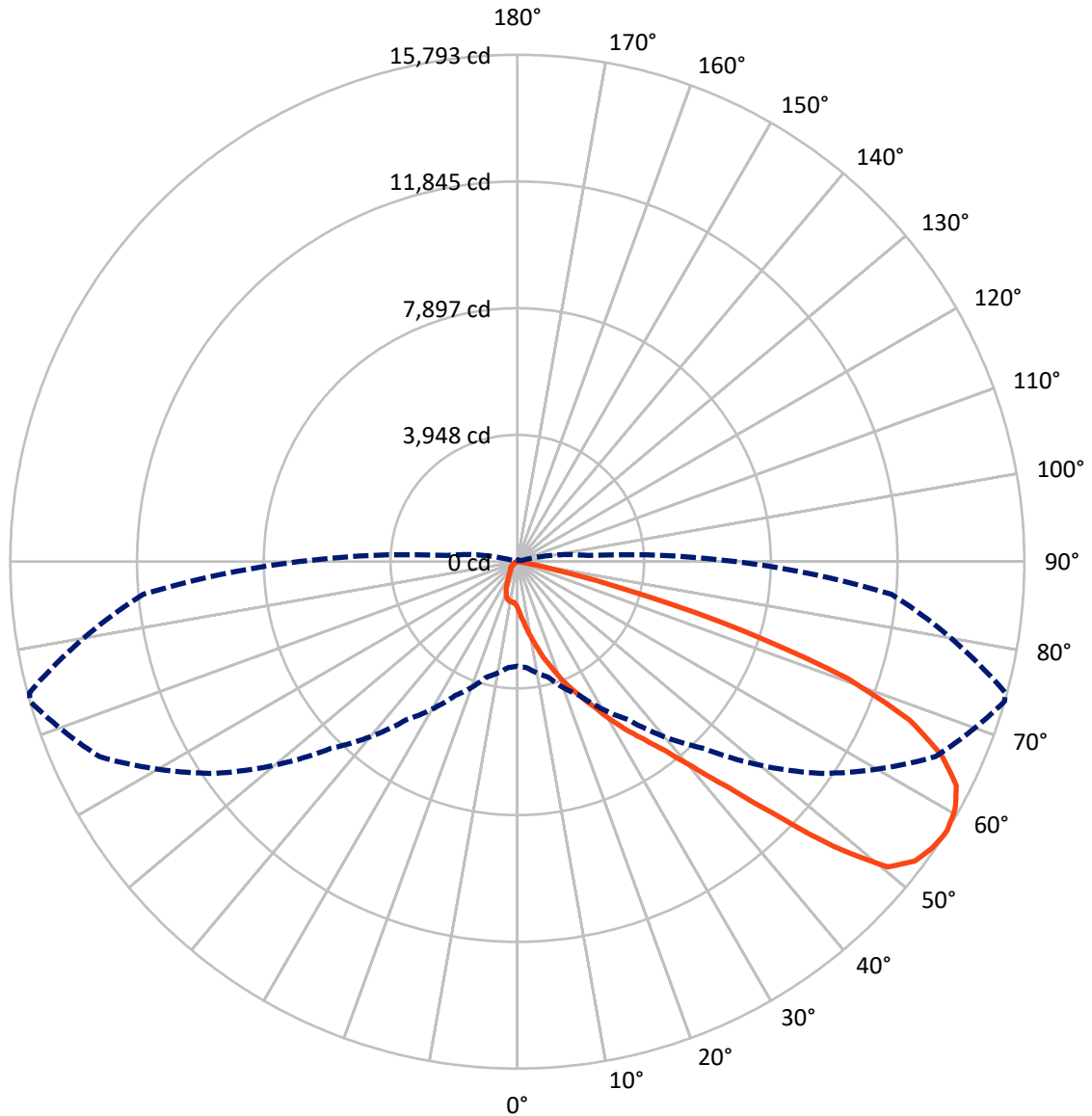
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P458996  
CATALOG NUMBER: GALN-SA5A-735-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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CATALOG NUMBER: GALN-SA5A-735-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	985.2	0.0	985.2
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	16095.8	0.0	16095.8
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	17081.0	0.0	17081.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.7	1.0
10°-20°	680.6	4.0
20°-30°	1456.3	8.5
30°-40°	2676.6	15.7
40°-50°	4103.3	24.0
50°-60°	4340.7	25.4
60°-70°	2834.6	16.6
70°-80°	774.5	4.5
80°-90°	41.7	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°	17081.0	100.0
0°-180°	17081.0	100.0

**Coefficient of Utilization**

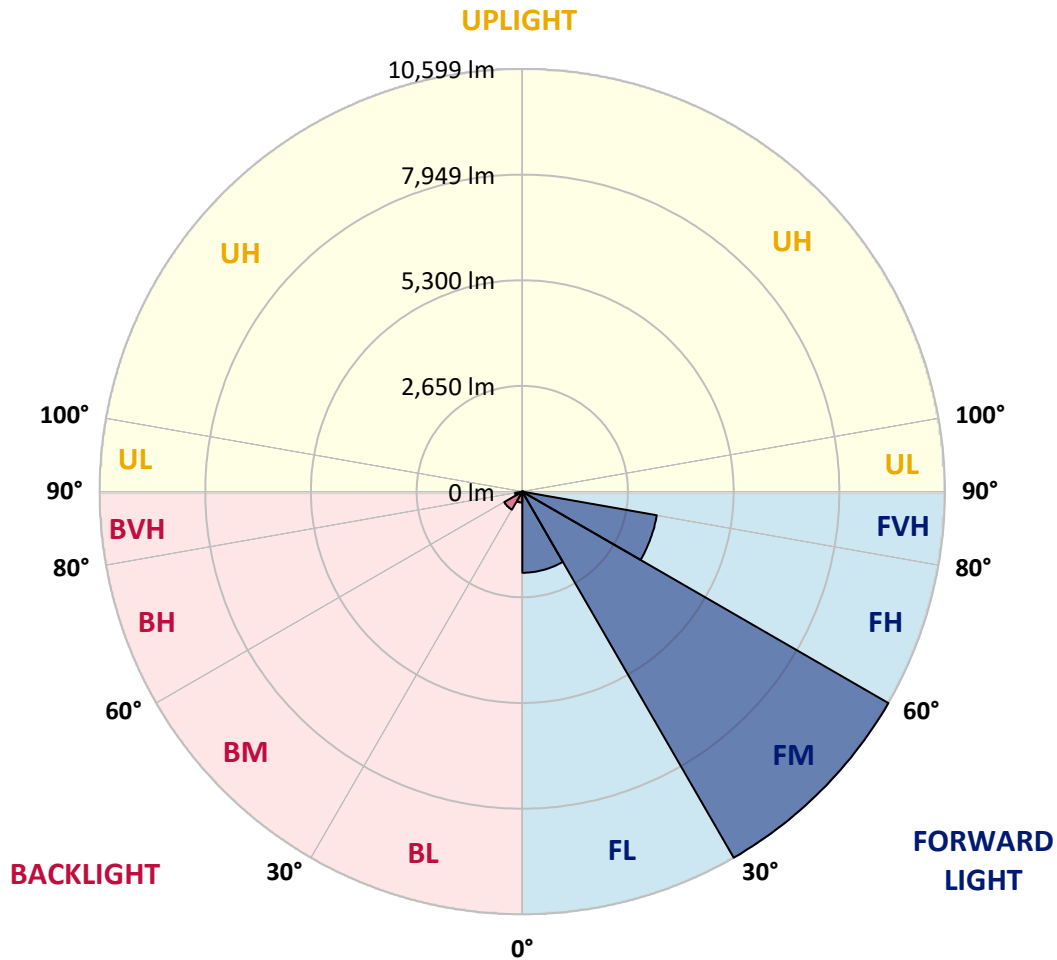


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 CATALOG NUMBER: GALN-SA5A-735-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2034.3	11.9			
FM (30°-60°)	10599.1	62.1			
FH (60°-80°)	3424.2	20.0			G2/5000
FVH (80°-90°)	38.3	0.2			G1/100
BL (0°-30°)	275.2	1.6	B1/500		
BM (30°-60°)	521.6	3.1	B1/1000		
BH (60°-80°)	185.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





REPORT NUMBER: P458996

CATALOG NUMBER: GALN-SA5A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5
2.5°	2093.3	2074.4	2036.7	2023.7	1968.3	1882.2	1806.7	1705.3	1625.1	1616.8	1520.1
5°	2803.2	2760.8	2743.1	2658.2	2524.9	2399.9	2185.3	2022.5	1835.0	1820.9	1626.3
7.5°	3487.2	3428.3	3410.6	3330.4	3174.7	2977.8	2699.5	2403.4	2106.3	2079.1	1769.0
10°	3982.6	3990.8	3959.0	3905.9	3779.7	3579.2	3236.0	2831.5	2408.2	2374.0	1929.4
12.5°	4337.5	4336.3	4342.2	4341.1	4273.8	4121.7	3760.8	3295.0	2740.7	2673.5	2113.3
15°	4568.7	4572.2	4589.9	4651.2	4658.3	4564.0	4263.2	3738.4	3126.4	3042.6	2312.6
17.5°	4802.2	4826.9	4855.2	4913.0	4964.9	4927.2	4714.9	4200.7	3475.4	3412.9	2526.1
20°	5187.8	5222.0	5205.5	5240.9	5268.0	5271.5	5107.6	4627.6	3898.8	3793.9	2770.2
22.5°	5804.6	5803.4	5761.0	5697.3	5644.2	5641.9	5493.3	5066.3	4283.3	4181.9	3015.5
25°	6584.1	6587.7	6505.1	6323.5	6191.4	6029.8	5858.8	5450.8	4694.9	4569.9	3273.8
27.5°	7478.0	7455.6	7330.6	7080.6	6818.8	6542.9	6296.4	5897.8	5131.2	5027.4	3569.8
30°	8281.2	8272.9	8126.7	7821.2	7476.9	7199.7	6842.4	6457.9	5696.1	5568.7	3901.2
32.5°	9028.9	9040.6	8837.8	8521.7	8189.2	7869.6	7492.2	6993.3	6250.4	6069.9	4262.1
35°	9612.6	9624.4	9414.5	9151.5	8809.5	8544.2	8184.5	7564.1	6797.6	6645.5	4677.2
37.5°	9924.0	9939.3	9817.8	9619.7	9406.2	9273.0	8938.0	8298.9	7462.7	7370.7	5167.8
40°	9982.9	10000.6	9947.5	9894.5	9882.7	9978.2	9880.3	9164.5	8384.9	8241.1	5898.9
42.5°	9806.0	9829.6	9853.2	9971.1	10211.7	10562.0	10902.8	10339.1	9572.5	9379.1	6792.9
45°	9341.4	9339.0	9432.2	9737.6	10276.6	11024.3	11971.2	11809.7	11190.5	10960.6	8055.9
47.5°	8546.5	8534.7	8736.4	9171.5	10011.2	11109.2	12842.8	13595.2	13255.5	13043.2	9413.3
50°	7335.4	7393.1	7710.4	8317.7	9352.0	10852.1	13111.6	14766.2	14950.2	14725.0	10510.1
52.5°	5916.6	5914.3	6411.9	7236.3	8375.5	10286.0	12924.1	14978.5	15500.9	15328.8	11050.2
55°	4378.8	4409.5	4927.2	5758.6	7107.7	9252.9	12312.1	14760.3	15710.9	15589.4	11406.4
57°	3257.3	3311.5	3726.6	4606.4	6003.9	8230.5	11497.2	14370.0	15793.4	15727.4	11702.4
57.5°	3040.3	3042.6	3447.1	4246.7	5680.8	7837.7	11263.7	14207.2	15791.1	15754.5	11750.7
60°	1871.6	1930.5	2210.0	2870.5	4158.3	6117.1	9698.7	13272.0	15668.4	15721.5	11957.1
62.5°	1120.4	1145.1	1326.7	1730.1	2680.6	4464.9	7936.8	12075.0	15348.8	15510.4	11942.9
65°	720.6	726.5	809.0	1047.2	1675.8	3017.9	6115.9	10493.6	14522.1	14819.3	11475.9
67.5°	556.6	566.1	599.1	687.5	971.8	1879.8	4325.7	8806.0	13184.8	13568.0	10343.8
70°	494.1	498.9	510.6	538.9	642.7	1061.4	2691.2	6879.0	10933.4	11041.9	8094.8
72.5°	403.3	416.3	452.9	462.3	509.5	662.8	1497.7	4617.0	7346.0	7373.1	4528.6
75°	312.5	314.9	369.1	396.3	429.3	456.4	668.7	2328.0	3528.5	3339.8	1745.4
77.5°	233.5	244.1	268.9	303.1	350.3	326.7	299.5	877.4	1095.6	1075.5	507.1
80°	149.8	155.7	187.5	227.6	272.4	213.5	168.6	257.1	240.6	247.7	121.5
82.5°	75.5	76.7	120.3	185.2	173.4	107.3	106.1	105.0	89.6	88.4	56.6
85°	8.3	17.7	77.8	106.1	77.8	35.4	49.5	48.4	47.2	48.4	33.0
87.5°	1.2	1.2	13.0	15.3	10.6	11.8	14.2	15.3	18.9	17.7	14.2
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: P458996

CATALOG NUMBER: GALN-SA5A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5
2.5°	1473.0	1425.8	1338.5	1254.8	1192.3	1152.2	1100.3	1081.4	1054.3	1050.8	1037.8
5°	1536.7	1447.0	1294.9	1174.6	1077.9	1004.8	941.1	888.0	845.6	836.1	840.9
7.5°	1627.5	1494.2	1281.9	1118.0	983.6	858.5	757.1	694.6	649.8	633.3	635.7
10°	1730.1	1556.7	1279.6	1057.8	852.6	699.3	588.5	533.1	507.1	497.7	487.1
12.5°	1851.5	1628.6	1273.7	964.7	708.8	557.8	478.8	445.8	421.0	413.9	413.9
15°	1988.3	1705.3	1245.4	849.1	575.5	461.1	408.0	382.1	373.8	366.8	366.8
17.5°	2131.0	1780.8	1186.4	706.4	477.6	395.1	362.1	346.7	334.9	326.7	326.7
20°	2293.8	1855.1	1092.0	580.2	403.3	352.6	326.7	309.0	299.5	292.5	290.1
22.5°	2448.3	1915.2	971.8	476.4	351.4	317.2	293.6	274.8	265.3	261.8	261.8
25°	2608.6	1951.8	826.7	393.9	320.8	287.8	261.8	246.5	238.2	235.9	234.7
27.5°	2764.3	1973.0	699.3	344.4	292.5	260.6	235.9	224.1	215.8	213.5	214.6
30°	2953.0	1976.5	575.5	309.0	267.7	234.7	212.3	201.7	196.9	194.6	193.4
32.5°	3144.1	1971.8	483.5	287.8	244.1	212.3	193.4	185.2	181.6	178.1	178.1
35°	3358.7	1947.1	411.6	266.5	221.7	193.4	176.9	169.8	165.1	161.6	160.4
37.5°	3625.2	1934.1	370.3	242.9	201.7	175.7	160.4	153.3	149.8	145.1	143.9
40°	4045.1	1991.9	357.3	221.7	181.6	159.2	145.1	136.8	132.1	127.4	126.2
42.5°	4568.7	2093.3	336.1	200.5	163.9	143.9	129.7	120.3	112.0	106.1	103.8
45°	5246.8	2226.6	303.1	178.1	148.6	127.4	114.4	102.6	92.0	87.3	86.1
47.5°	5957.9	2355.1	273.6	160.4	132.1	113.2	99.1	86.1	76.7	73.1	71.9
50°	6394.3	2381.0	254.7	140.3	115.6	97.9	83.7	71.9	66.0	62.5	62.5
52.5°	6593.6	2339.8	228.8	122.6	100.2	86.1	71.9	62.5	59.0	56.6	55.4
55°	6732.7	2276.1	194.6	106.1	86.1	73.1	63.7	56.6	51.9	49.5	48.4
57°	6814.1	2190.0	168.6	93.2	74.3	63.7	56.6	50.7	46.0	41.3	41.3
57.5°	6817.6	2157.0	161.6	92.0	70.8	61.3	55.4	49.5	43.6	38.9	37.7
60°	6712.7	1930.5	129.7	77.8	56.6	51.9	46.0	38.9	30.7	25.9	24.8
62.5°	6375.4	1642.8	107.3	66.0	46.0	40.1	33.0	29.5	21.2	15.3	15.3
65°	5864.7	1332.6	92.0	53.1	37.7	29.5	22.4	21.2	13.0	7.1	5.9
67.5°	5126.5	1037.8	77.8	43.6	31.8	21.2	15.3	14.2	7.1	2.4	0.0
70°	3905.9	707.6	64.9	35.4	23.6	15.3	10.6	8.3	4.7	1.2	0.0
72.5°	2251.3	389.2	54.2	27.1	17.7	11.8	8.3	4.7	4.7	0.0	0.0
75°	804.3	167.5	41.3	20.0	14.2	9.4	5.9	2.4	3.5	1.2	0.0
77.5°	255.9	89.6	27.1	15.3	11.8	7.1	4.7	2.4	2.4	1.2	0.0
80°	75.5	47.2	16.5	13.0	8.3	5.9	3.5	1.2	2.4	1.2	0.0
82.5°	41.3	23.6	13.0	9.4	8.3	4.7	3.5	1.2	1.2	1.2	0.0
85°	21.2	14.2	10.6	9.4	8.3	4.7	3.5	1.2	0.0	1.2	1.2
87.5°	11.8	10.6	10.6	9.4	8.3	5.9	3.5	1.2	0.0	0.0	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)