

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: P459344

Luminaire Tested: **GALN-SA8A-735-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459344  
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-SA8A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 27542 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

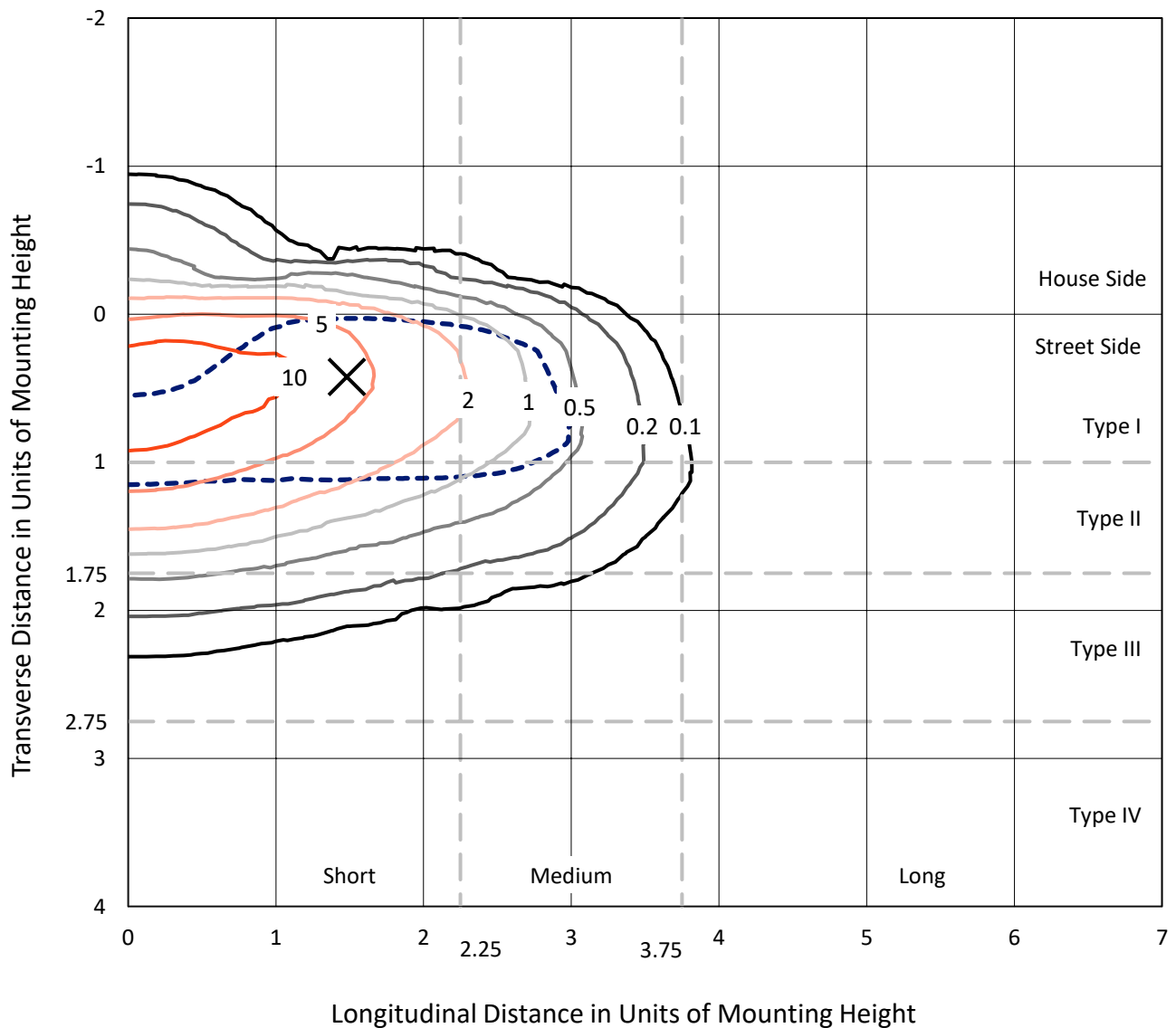
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

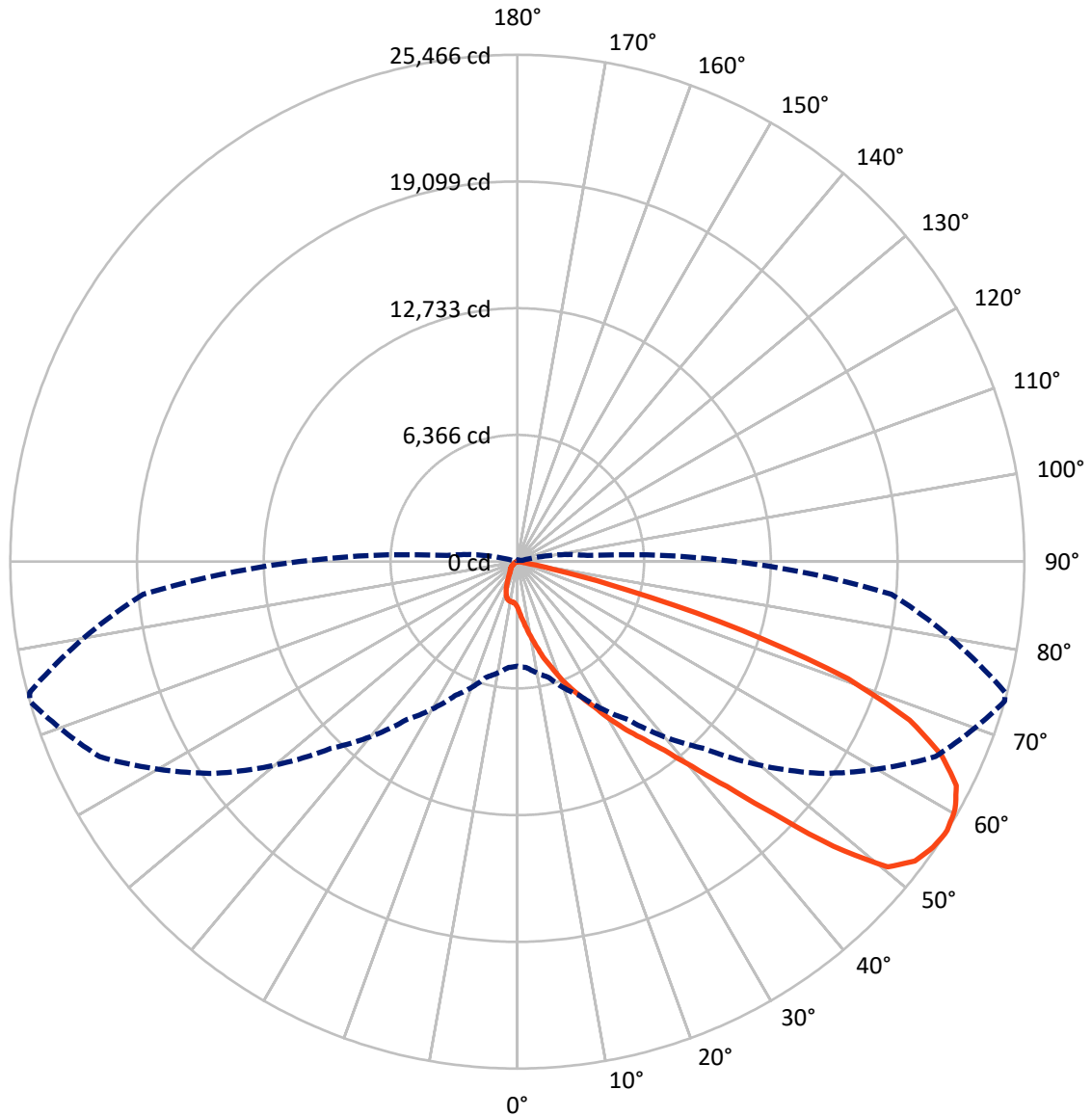
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1588.5	0.0	1588.5
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	25953.5	0.0	25953.5
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	27542.0	0.0	27542.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.4	1.0
10°-20°	1097.4	4.0
20°-30°	2348.1	8.5
30°-40°	4315.9	15.7
40°-50°	6616.3	24.0
50°-60°	6999.2	25.4
60°-70°	4570.6	16.6
70°-80°	1248.9	4.5
80°-90°	67.2	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°	27542.0	100.0
0°-180°	27542.0	100.0

**Coefficient of Utilization**



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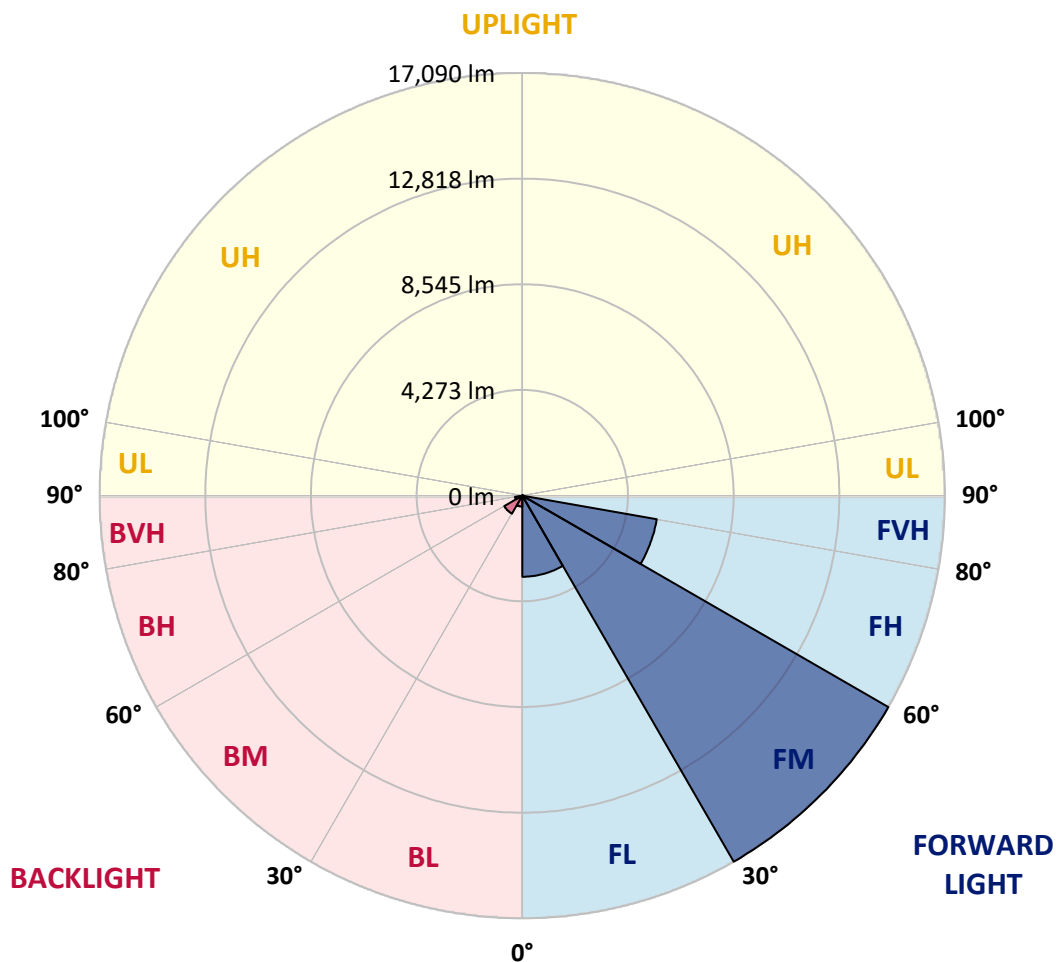
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3280.2	11.9			
FM (30°-60°)	17090.3	62.1			
FH (60°-80°)	5521.3	20.0			G3/7500
FVH (80°-90°)	61.7	0.2			G1/100
BL (0°-30°)	443.7	1.6	B1/500		
BM (30°-60°)	841.0	3.1	B1/1000		
BH (60°-80°)	298.2	1.1	B1/500		G1/500
BVH (80°-90°)	5.6	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6
2.5°	3375.3	3344.9	3284.0	3263.1	3173.7	3034.9	2913.2	2749.7	2620.4	2607.1	2451.1
5°	4520.0	4451.6	4423.1	4286.1	4071.3	3869.7	3523.6	3261.2	2958.8	2936.0	2622.3
7.5°	5622.9	5527.9	5499.3	5370.0	5119.0	4801.5	4352.7	3875.4	3396.2	3352.5	2852.4
10°	6421.6	6434.9	6383.6	6298.0	6094.5	5771.3	5217.9	4565.7	3883.0	3827.9	3111.0
12.5°	6994.0	6992.1	7001.6	6999.7	6891.3	6646.0	6064.1	5313.0	4419.3	4310.9	3407.6
15°	7366.7	7372.4	7400.9	7499.8	7511.2	7359.1	6874.2	6028.0	5041.1	4906.1	3729.0
17.5°	7743.2	7783.1	7828.8	7921.9	8005.6	7944.8	7602.5	6773.4	5603.9	5503.1	4073.2
20°	8365.0	8420.2	8393.5	8450.6	8494.3	8500.0	8235.7	7461.8	6286.6	6117.4	4466.8
22.5°	9359.5	9357.6	9289.2	9186.5	9100.9	9097.1	8857.5	8169.2	6906.5	6743.0	4862.3
25°	10616.5	10622.2	10489.1	10196.2	9983.3	9722.7	9447.0	8789.1	7570.2	7368.6	5278.8
27.5°	12057.9	12021.7	11820.2	11417.0	10994.9	10549.9	10152.5	9509.8	8273.7	8106.4	5756.1
30°	13352.8	13339.5	13103.7	12611.2	12056.0	11609.1	11032.9	10413.0	9184.6	8979.2	6290.4
32.5°	14558.4	14577.4	14250.4	13740.8	13204.5	12689.2	12080.7	11276.3	10078.3	9787.4	6872.3
35°	15499.7	15518.7	15180.2	14756.2	14204.7	13776.9	13196.9	12196.7	10960.7	10715.4	7541.6
37.5°	16001.7	16026.4	15830.6	15511.1	15166.9	14952.1	14412.0	13381.4	12033.1	11884.8	8332.7
40°	16096.8	16125.3	16039.8	15954.2	15935.2	16089.2	15931.4	14777.1	13520.2	13288.2	9511.7
42.5°	15811.6	15849.6	15887.6	16077.8	16465.7	17030.5	17580.0	16671.1	15435.1	15123.2	10953.1
45°	15062.4	15058.5	15208.8	15701.3	16570.3	17775.9	19302.9	19042.3	18044.0	17673.2	12989.6
47.5°	13780.7	13761.7	14086.8	14788.5	16142.4	17912.8	20708.1	21921.3	21373.7	21031.4	15178.3
50°	11827.8	11921.0	12432.5	13411.8	15079.5	17498.3	21141.7	23809.6	24106.2	23743.0	16946.8
52.5°	9540.2	9536.4	10338.8	11668.0	13505.0	16585.5	20839.3	24151.9	24994.3	24716.6	17817.7
55°	7060.5	7110.0	7944.8	9285.4	11460.8	14919.7	19852.4	23800.1	25332.7	25136.9	18392.0
57°	5252.1	5339.6	6009.0	7427.5	9680.9	13271.1	18538.4	23170.7	25465.8	25359.4	18869.3
57.5°	4902.3	4906.1	5558.3	6847.6	9159.9	12637.8	18161.9	22908.2	25462.0	25403.1	18947.3
60°	3017.8	3112.9	3563.5	4628.4	6704.9	9863.5	15638.5	21400.3	25264.3	25349.9	19280.0
62.5°	1806.5	1846.4	2139.3	2789.6	4322.3	7199.4	12797.6	19470.2	24749.0	25009.5	19257.2
65°	1161.9	1171.4	1304.5	1688.6	2702.1	4866.1	9861.6	16920.2	23416.0	23895.2	18504.2
67.5°	897.5	912.8	966.0	1108.6	1566.9	3031.1	6975.0	14199.0	21259.6	21877.6	16678.7
70°	796.8	804.4	823.4	869.0	1036.4	1711.4	4339.4	11091.9	17629.5	17804.4	13052.4
72.5°	650.3	671.3	730.2	745.4	821.5	1068.7	2415.0	7444.7	11844.9	11888.6	7302.0
75°	503.9	507.7	595.2	638.9	692.2	735.9	1078.2	3753.7	5689.5	5385.3	2814.3
77.5°	376.5	393.6	433.6	488.7	564.8	526.7	483.0	1414.8	1766.6	1734.2	817.7
80°	241.5	251.0	302.3	367.0	439.3	344.2	271.9	414.5	387.9	399.3	195.9
82.5°	121.7	123.6	194.0	298.5	279.5	173.0	171.1	169.2	144.5	142.6	91.3
85°	13.3	28.5	125.5	171.1	125.5	57.0	79.9	78.0	76.1	78.0	53.2
87.5°	1.9	1.9	20.9	24.7	17.1	19.0	22.8	24.7	30.4	28.5	22.8
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°	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6	2306.6
2.5°	2375.1	2299.0	2158.3	2023.3	1922.5	1857.8	1774.2	1743.7	1700.0	1694.3	1673.4
5°	2477.7	2333.2	2087.9	1894.0	1738.0	1620.1	1517.5	1431.9	1363.4	1348.2	1355.8
7.5°	2624.2	2409.3	2067.0	1802.7	1585.9	1384.3	1220.8	1120.0	1047.8	1021.1	1024.9
10°	2789.6	2510.1	2063.2	1705.7	1374.8	1127.6	948.9	859.5	817.7	802.5	785.3
12.5°	2985.5	2626.1	2053.7	1555.5	1142.8	899.4	772.0	718.8	678.9	667.5	667.5
15°	3206.1	2749.7	2008.1	1369.1	928.0	743.5	657.9	616.1	602.8	591.4	591.4
17.5°	3436.1	2871.4	1913.0	1139.0	770.1	637.0	583.8	559.1	540.0	526.7	526.7
20°	3698.6	2991.2	1760.9	935.6	650.3	568.6	526.7	498.2	483.0	471.6	467.8
22.5°	3947.7	3088.2	1566.9	768.2	566.7	511.5	473.5	443.1	427.9	422.1	422.1
25°	4206.3	3147.1	1333.0	635.1	517.2	464.0	422.1	397.4	384.1	380.3	378.4
27.5°	4457.3	3181.3	1127.6	555.3	471.6	420.2	380.3	361.3	348.0	344.2	346.1
30°	4761.5	3187.0	928.0	498.2	431.7	378.4	342.3	325.2	317.6	313.8	311.9
32.5°	5069.6	3179.4	779.6	464.0	393.6	342.3	311.9	298.5	292.8	287.1	287.1
35°	5415.7	3139.5	663.6	429.8	357.5	311.9	285.2	273.8	266.2	260.5	258.6
37.5°	5845.4	3118.6	597.1	391.7	325.2	283.3	258.6	247.2	241.5	233.9	232.0
40°	6522.4	3211.8	576.2	357.5	292.8	256.7	233.9	220.6	213.0	205.4	203.5
42.5°	7366.7	3375.3	541.9	323.3	264.3	232.0	209.2	194.0	180.6	171.1	167.3
45°	8460.1	3590.2	488.7	287.1	239.6	205.4	184.5	165.4	148.3	140.7	138.8
47.5°	9606.7	3797.4	441.2	258.6	213.0	182.6	159.7	138.8	123.6	117.9	116.0
50°	10310.3	3839.3	410.7	226.3	186.4	157.8	135.0	116.0	106.5	100.8	100.8
52.5°	10631.7	3772.7	368.9	197.8	161.6	138.8	116.0	100.8	95.1	91.3	89.4
55°	10856.1	3670.0	313.8	171.1	138.8	117.9	102.7	91.3	83.7	79.9	78.0
57°	10987.3	3531.2	271.9	150.2	119.8	102.7	91.3	81.8	74.2	66.6	66.6
57.5°	10993.0	3478.0	260.5	148.3	114.1	98.9	89.4	79.9	70.4	62.8	60.9
60°	10823.7	3112.9	209.2	125.5	91.3	83.7	74.2	62.8	49.4	41.8	39.9
62.5°	10279.9	2648.9	173.0	106.5	74.2	64.7	53.2	47.5	34.2	24.7	24.7
65°	9456.5	2148.8	148.3	85.6	60.9	47.5	36.1	34.2	20.9	11.4	9.5
67.5°	8266.1	1673.4	125.5	70.4	51.3	34.2	24.7	22.8	11.4	3.8	0.0
70°	6298.0	1140.9	104.6	57.0	38.0	24.7	17.1	13.3	7.6	1.9	0.0
72.5°	3630.1	627.5	87.5	43.7	28.5	19.0	13.3	7.6	7.6	0.0	0.0
75°	1296.9	270.0	66.6	32.3	22.8	15.2	9.5	3.8	5.7	1.9	0.0
77.5°	412.6	144.5	43.7	24.7	19.0	11.4	7.6	3.8	3.8	1.9	0.0
80°	121.7	76.1	26.6	20.9	13.3	9.5	5.7	1.9	3.8	1.9	0.0
82.5°	66.6	38.0	20.9	15.2	13.3	7.6	5.7	1.9	1.9	1.9	0.0
85°	34.2	22.8	17.1	15.2	13.3	7.6	5.7	1.9	0.0	1.9	1.9
87.5°	19.0	17.1	17.1	15.2	13.3	9.5	5.7	1.9	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)