

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: P459170

Luminaire Tested: **GALN-SA6C-735-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459170  
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-SA6C-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA 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: 31093 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

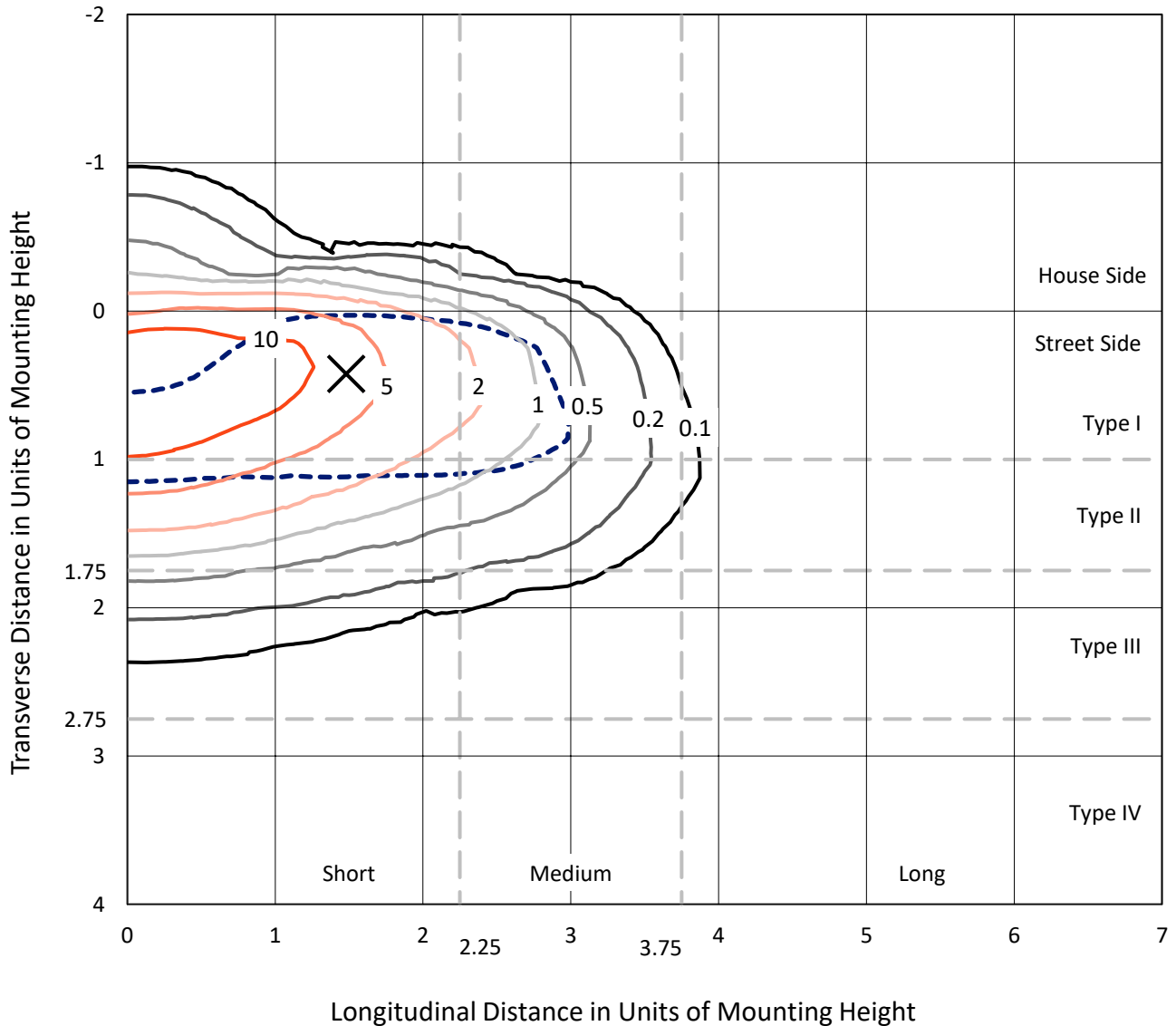
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA6C-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

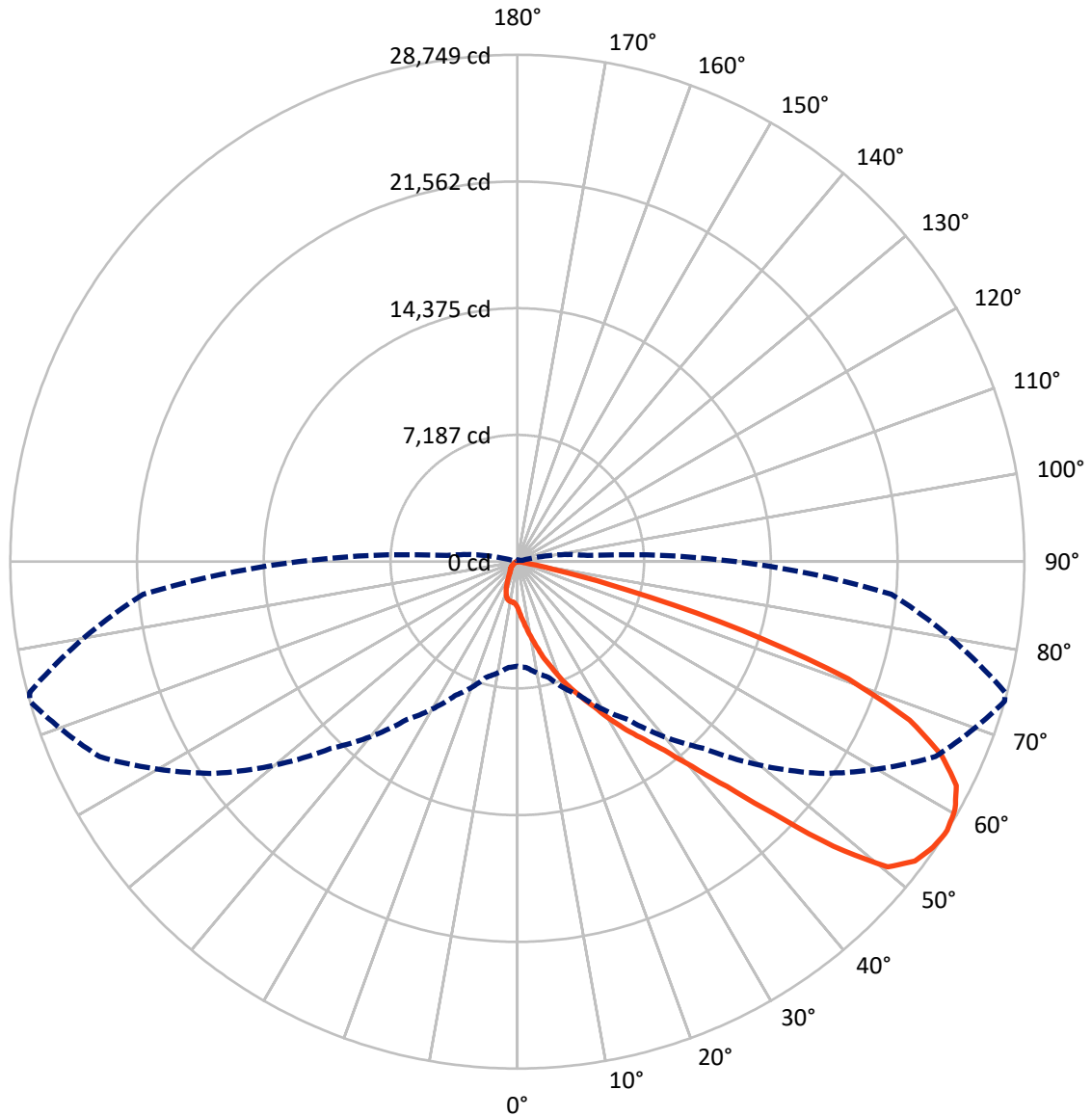
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P459170  
CATALOG NUMBER: GALN-SA6C-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-SA6C-735-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1793.3	0.0	1793.3
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	29299.7	0.0	29299.7
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	31093.0	0.0	31093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.3	1.0
10°-20°	1238.9	4.0
20°-30°	2650.9	8.5
30°-40°	4872.3	15.7
40°-50°	7469.3	24.0
50°-60°	7901.6	25.4
60°-70°	5159.9	16.6
70°-80°	1409.9	4.5
80°-90°	75.9	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°	31093.0	100.0
0°-180°	31093.0	100.0

**Coefficient of Utilization**

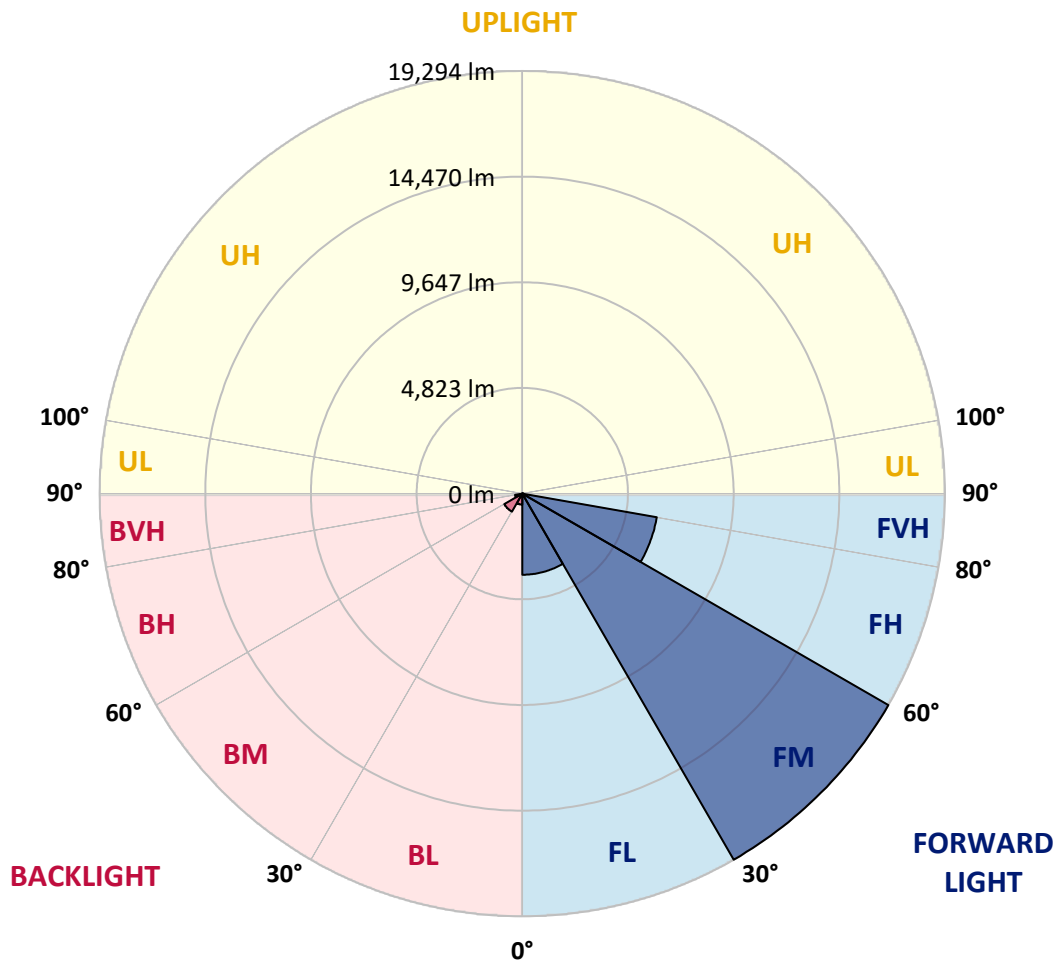


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3703.1	11.9			
FM	(30°-60°)	19293.8	62.1			
FH	(60°-80°)	6233.1	20.0			G3/7500
FVH	(80°-90°)	69.6	0.2			G1/100
BL	(0°-30°)	500.9	1.6	B2/1000		
BM	(30°-60°)	949.4	3.1	B1/1000		
BH	(60°-80°)	336.7	1.1	B1/500		G1/500
BVH	(80°-90°)	6.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type II Short





REPORT NUMBER: P459170

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0
2.5°	3810.5	3776.1	3707.4	3683.8	3582.9	3426.2	3288.8	3104.2	2958.2	2943.2	2767.2
5°	5102.8	5025.5	4993.3	4838.8	4596.2	4368.6	3977.9	3681.7	3340.3	3314.6	2960.4
7.5°	6347.9	6240.6	6208.4	6062.4	5779.0	5420.5	4913.9	4375.1	3834.1	3784.7	3220.1
10°	7249.5	7264.6	7206.6	7110.0	6880.3	6515.4	5890.7	5154.3	4383.6	4321.4	3512.1
12.5°	7895.7	7893.6	7904.3	7902.2	7779.8	7502.9	6846.0	5998.0	4989.0	4866.7	3847.0
15°	8316.5	8322.9	8355.1	8466.8	8479.6	8307.9	7760.5	6805.2	5691.0	5538.6	4209.8
17.5°	8741.5	8786.6	8838.1	8943.3	9037.8	8969.1	8582.7	7646.7	6326.4	6212.7	4598.3
20°	9443.5	9505.8	9475.7	9540.1	9589.5	9595.9	9297.5	8423.8	7097.1	6906.1	5042.7
22.5°	10566.3	10564.1	10486.8	10370.9	10274.3	10270.0	9999.5	9222.4	7797.0	7612.3	5489.2
25°	11985.3	11991.7	11841.4	11510.8	11270.4	10976.3	10665.0	9922.2	8546.2	8318.6	5959.4
27.5°	13612.5	13571.7	13344.1	12889.0	12412.5	11910.1	11461.5	10735.9	9340.5	9151.6	6498.2
30°	15074.4	15059.4	14793.2	14237.2	13610.3	13105.9	12455.4	11755.6	10368.8	10136.9	7101.4
32.5°	16435.5	16456.9	16087.7	15512.4	14907.0	14325.2	13638.3	12730.2	11377.7	11049.3	7758.3
35°	17498.1	17519.6	17137.4	16658.7	16036.2	15553.1	14898.4	13769.2	12373.8	12096.9	8514.0
37.5°	18064.8	18092.7	17871.6	17511.0	17122.4	16879.8	16270.2	15106.6	13584.6	13417.1	9407.0
40°	18172.2	18204.4	18107.8	18011.2	17989.7	18163.6	17985.4	16682.3	15263.3	15001.4	10738.0
42.5°	17850.2	17893.1	17936.0	18150.7	18588.6	19226.2	19846.6	18820.5	17425.1	17073.0	12365.2
45°	17004.3	17000.1	17169.6	17725.7	18706.7	20067.7	21791.6	21497.5	20370.4	19951.8	14664.4
47.5°	15557.4	15536.0	15903.1	16695.2	18223.7	20222.3	23378.0	24747.6	24129.4	23743.0	17135.3
50°	13352.7	13457.9	14035.4	15141.0	17023.7	19754.3	23867.5	26879.4	27214.3	26804.2	19131.8
52.5°	10770.2	10765.9	11671.8	13172.4	15246.2	18723.9	23526.1	27265.8	28216.8	27903.4	20115.0
55°	7970.9	8026.7	8969.1	10482.5	12938.4	16843.3	22412.0	26868.6	28598.9	28377.8	20763.3
57°	5929.3	6028.1	6783.7	8385.2	10929.1	14982.1	20928.6	26158.1	28749.2	28629.0	21302.1
57.5°	5534.3	5538.6	6274.9	7730.4	10340.9	14267.2	20503.5	25861.8	28744.9	28678.3	21390.1
60°	3406.9	3514.2	4023.0	5225.2	7569.4	11135.2	17654.8	24159.4	28521.6	28618.2	21765.8
62.5°	2039.4	2084.5	2415.1	3149.3	4879.5	8127.6	14447.6	21980.5	27939.8	28234.0	21740.1
65°	1311.7	1322.4	1472.7	1906.3	3050.5	5493.5	11133.0	19101.7	26435.0	26976.0	20889.9
67.5°	1013.3	1030.4	1090.5	1251.6	1768.9	3421.9	7874.3	16029.7	24000.6	24698.3	18829.1
70°	899.5	908.1	929.5	981.1	1170.0	1932.1	4898.9	12521.9	19902.4	20099.9	14735.2
72.5°	734.2	757.8	824.3	841.5	927.4	1206.5	2726.4	8404.5	13372.1	13421.4	8243.5
75°	568.9	573.2	671.9	721.3	781.4	830.8	1217.2	4237.7	6423.1	6079.6	3177.2
77.5°	425.1	444.4	489.5	551.7	637.6	594.6	545.3	1597.2	1994.3	1957.8	923.1
80°	272.6	283.4	341.3	414.3	495.9	388.6	307.0	468.0	437.9	450.8	221.1
82.5°	137.4	139.5	219.0	337.0	315.6	195.4	193.2	191.1	163.2	161.0	103.0
85°	15.0	32.2	141.7	193.2	141.7	64.4	90.2	88.0	85.9	88.0	60.1
87.5°	2.1	2.1	23.6	27.9	19.3	21.5	25.8	27.9	34.3	32.2	25.8
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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CATALOG NUMBER: GALN-SA6C-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0
2.5°	2681.3	2595.4	2436.6	2284.1	2170.4	2097.4	2002.9	1968.6	1919.2	1912.7	1889.1
5°	2797.2	2634.1	2357.1	2138.2	1962.1	1829.0	1713.1	1616.5	1539.2	1522.0	1530.6
7.5°	2962.5	2719.9	2333.5	2035.1	1790.4	1562.8	1378.2	1264.4	1182.9	1152.8	1157.1
10°	3149.3	2833.7	2329.2	1925.6	1552.1	1273.0	1071.2	970.3	923.1	905.9	886.6
12.5°	3370.4	2964.7	2318.5	1756.0	1290.2	1015.4	871.6	811.5	766.4	753.5	753.5
15°	3619.4	3104.2	2267.0	1545.7	1047.6	839.4	742.8	695.5	680.5	667.6	667.6
17.5°	3879.2	3241.6	2159.6	1285.9	869.4	719.2	659.0	631.1	609.7	594.6	594.6
20°	4175.4	3376.8	1987.9	1056.2	734.2	641.9	594.6	562.4	545.3	532.4	528.1
22.5°	4456.6	3486.3	1768.9	867.3	639.7	577.5	534.5	500.2	483.0	476.6	476.6
25°	4748.6	3552.9	1504.9	717.0	583.9	523.8	476.6	448.7	433.6	429.3	427.2
27.5°	5032.0	3591.5	1273.0	626.8	532.4	474.4	429.3	407.9	392.9	388.6	390.7
30°	5375.4	3597.9	1047.6	562.4	487.3	427.2	386.4	367.1	358.5	354.2	352.1
32.5°	5723.2	3589.4	880.2	523.8	444.4	386.4	352.1	337.0	330.6	324.2	324.2
35°	6113.9	3544.3	749.2	485.2	403.6	352.1	322.0	309.1	300.5	294.1	292.0
37.5°	6599.1	3520.7	674.1	442.2	367.1	319.9	292.0	279.1	272.6	264.0	261.9
40°	7363.3	3625.8	650.5	403.6	330.6	289.8	264.0	249.0	240.4	231.8	229.7
42.5°	8316.5	3810.5	611.8	364.9	298.4	261.9	236.1	219.0	203.9	193.2	188.9
45°	9550.9	4053.0	551.7	324.2	270.5	231.8	208.2	186.8	167.4	158.9	156.7
47.5°	10845.3	4287.0	498.0	292.0	240.4	206.1	180.3	156.7	139.5	133.1	131.0
50°	11639.6	4334.3	463.7	255.5	210.4	178.2	152.4	131.0	120.2	113.8	113.8
52.5°	12002.4	4259.1	416.5	223.3	182.5	156.7	131.0	113.8	107.3	103.0	100.9
55°	12255.8	4143.2	354.2	193.2	156.7	133.1	115.9	103.0	94.5	90.2	88.0
57°	12403.9	3986.5	307.0	169.6	135.2	115.9	103.0	92.3	83.7	75.1	75.1
57.5°	12410.3	3926.4	294.1	167.4	128.8	111.6	100.9	90.2	79.4	70.8	68.7
60°	12219.3	3514.2	236.1	141.7	103.0	94.5	83.7	70.8	55.8	47.2	45.1
62.5°	11605.3	2990.4	195.4	120.2	83.7	73.0	60.1	53.7	38.6	27.9	27.9
65°	10675.7	2425.8	167.4	96.6	68.7	53.7	40.8	38.6	23.6	12.9	10.7
67.5°	9331.9	1889.1	141.7	79.4	58.0	38.6	27.9	25.8	12.9	4.3	0.0
70°	7110.0	1288.0	118.1	64.4	42.9	27.9	19.3	15.0	8.6	2.1	0.0
72.5°	4098.1	708.4	98.8	49.4	32.2	21.5	15.0	8.6	8.6	0.0	0.0
75°	1464.1	304.8	75.1	36.5	25.8	17.2	10.7	4.3	6.4	2.1	0.0
77.5°	465.8	163.2	49.4	27.9	21.5	12.9	8.6	4.3	4.3	2.1	0.0
80°	137.4	85.9	30.1	23.6	15.0	10.7	6.4	2.1	4.3	2.1	0.0
82.5°	75.1	42.9	23.6	17.2	15.0	8.6	6.4	2.1	2.1	2.1	0.0
85°	38.6	25.8	19.3	17.2	15.0	8.6	6.4	2.1	0.0	2.1	2.1
87.5°	21.5	19.3	19.3	17.2	15.0	10.7	6.4	2.1	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)