

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: P455603

Luminaire Tested: **GALN-SA6D-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455603  
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-SA6D-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA 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: 36727 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

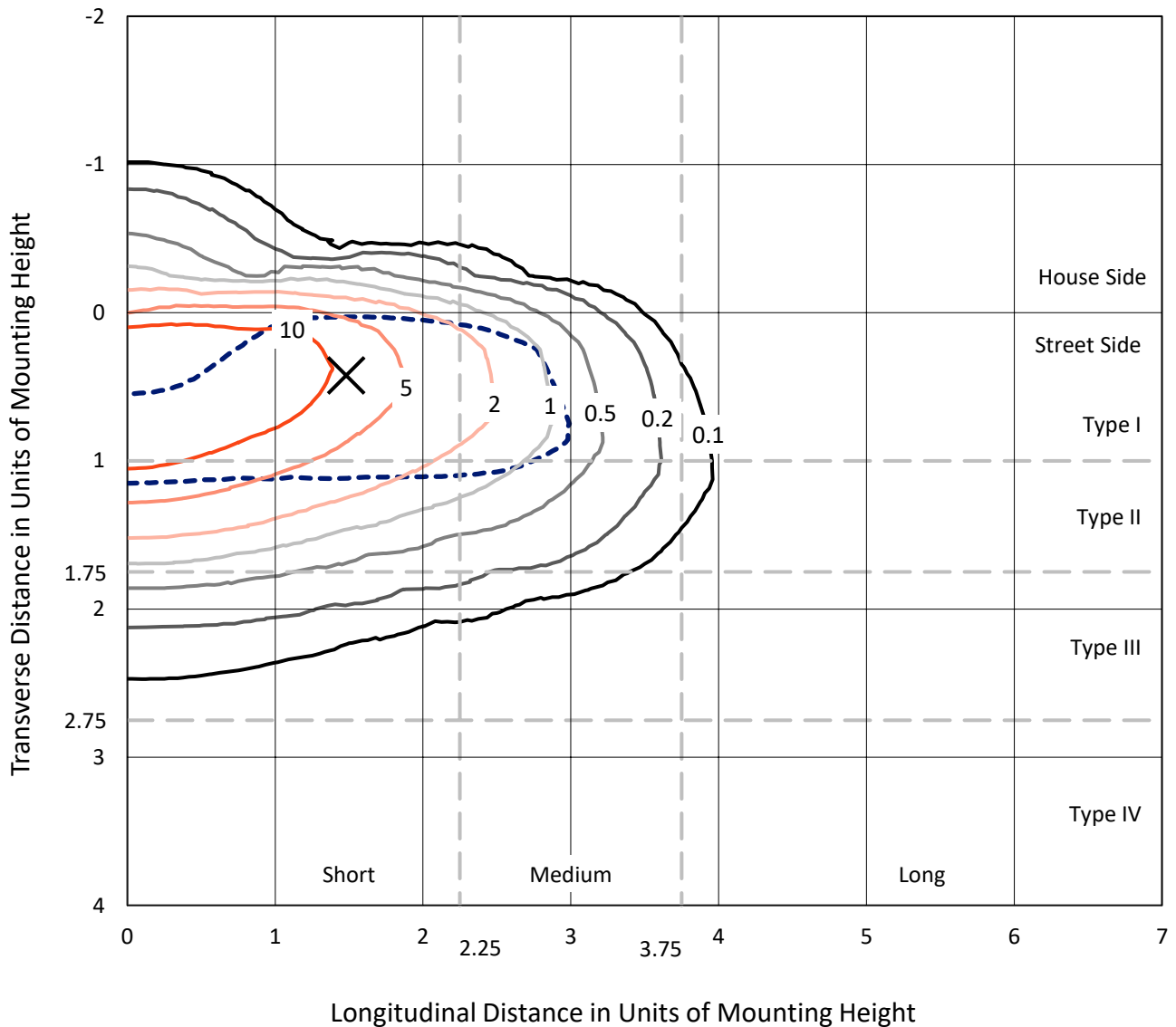
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

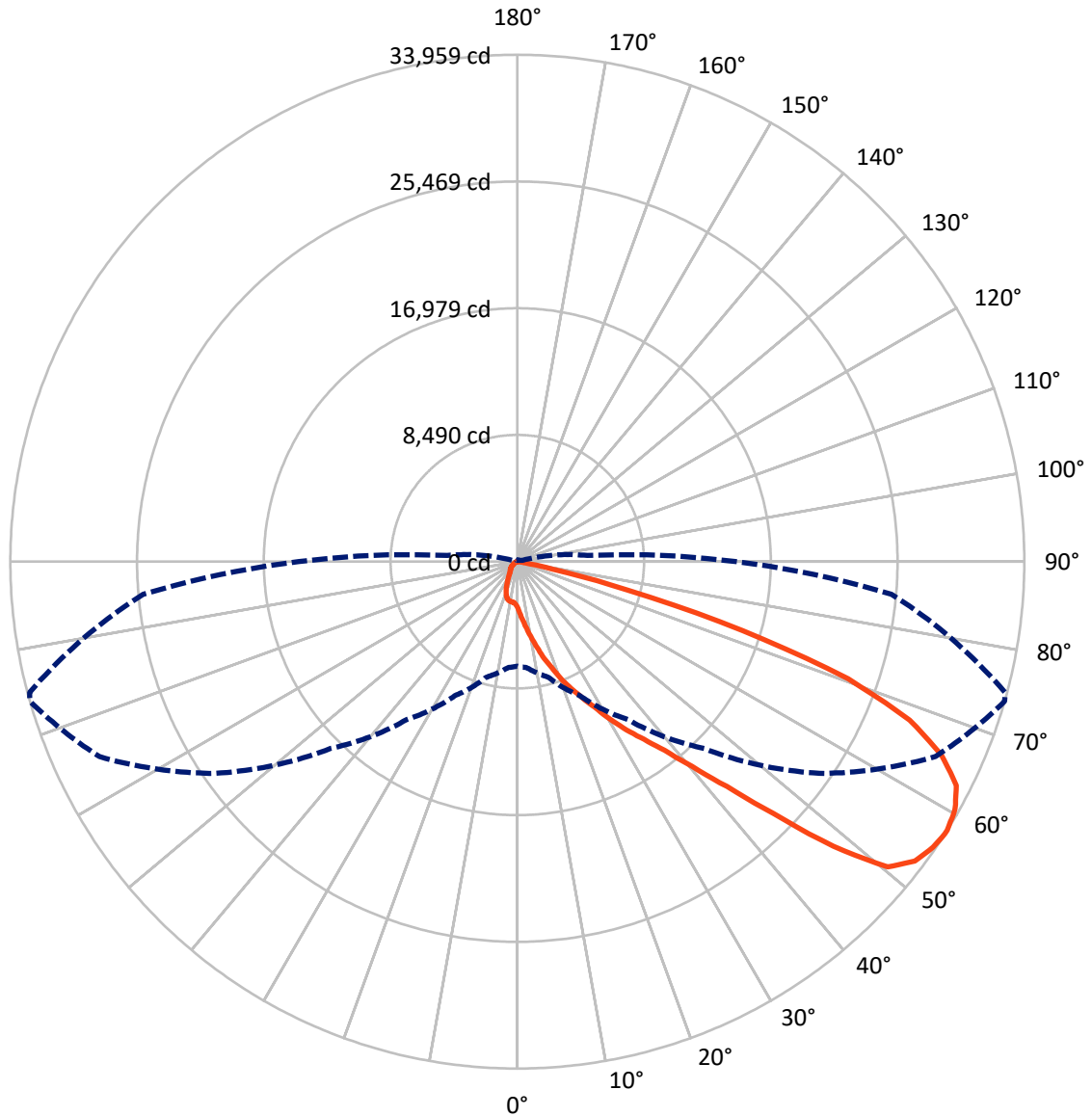
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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	2118.3	0.0	2118.3
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	34608.7	0.0	34608.7
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	36727.0	0.0	36727.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.3	1.0
10°-20°	1463.4	4.0
20°-30°	3131.2	8.5
30°-40°	5755.2	15.7
40°-50°	8822.8	24.0
50°-60°	9333.3	25.4
60°-70°	6094.9	16.6
70°-80°	1665.3	4.5
80°-90°	89.7	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°	36727.0	100.0
0°-180°	36727.0	100.0

**Coefficient of Utilization**



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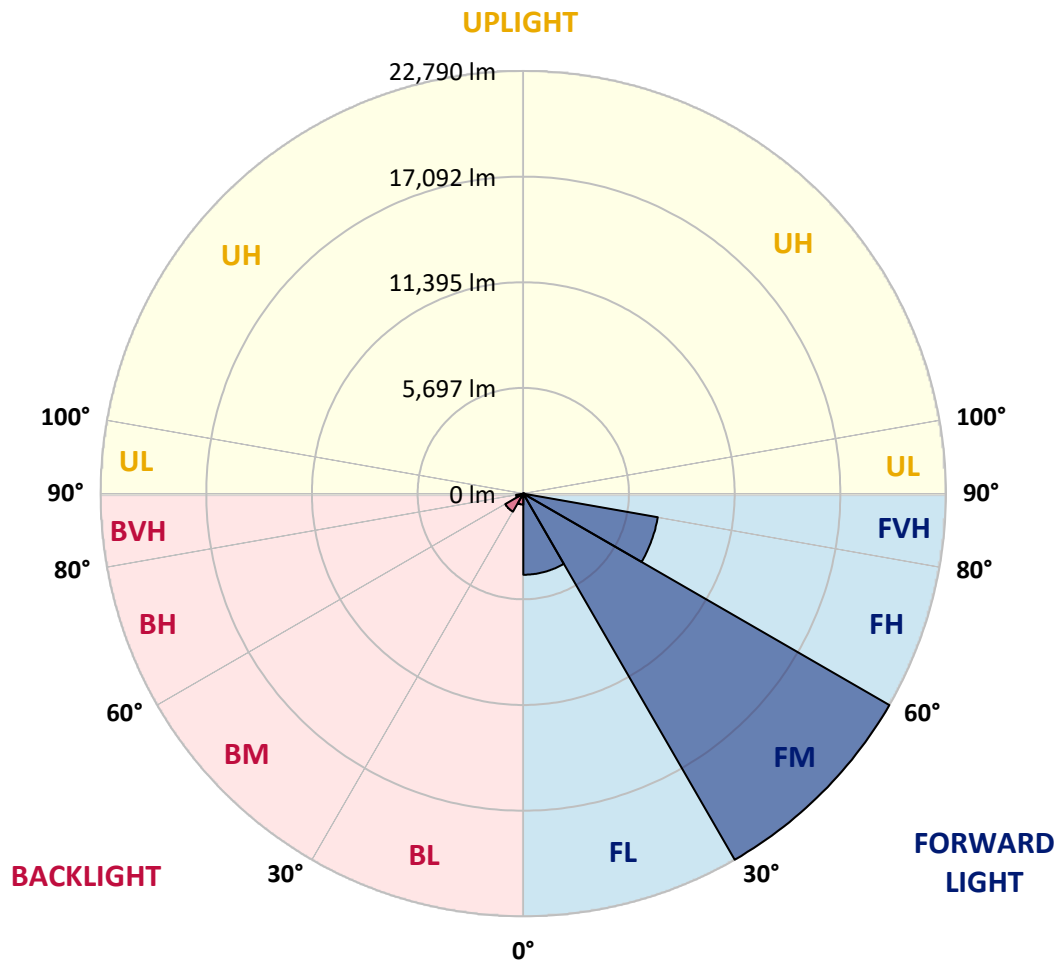
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4374.1	11.9			
FM (30°-60°)	22789.8	62.1			
FH (60°-80°)	7362.5	20.0			G3/7500
FVH (80°-90°)	82.3	0.2			G1/100
BL (0°-30°)	591.7	1.6	B2/1000		
BM (30°-60°)	1121.5	3.1	B2/2500		
BH (60°-80°)	397.7	1.1	B1/500		G1/500
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8
2.5°	4500.9	4460.3	4379.2	4351.3	4232.1	4047.0	3884.7	3666.7	3494.2	3476.5	3268.6
5°	6027.4	5936.1	5898.1	5715.5	5429.0	5160.2	4698.7	4348.8	3945.6	3915.2	3496.8
7.5°	7498.1	7371.4	7333.3	7160.9	6826.2	6402.7	5804.3	5167.8	4528.8	4470.5	3803.6
10°	8563.2	8580.9	8512.4	8398.3	8127.0	7695.9	6958.0	6088.3	5178.0	5104.4	4148.5
12.5°	9326.4	9323.9	9336.6	9334.0	9189.5	8862.4	8086.4	7084.8	5893.0	5748.5	4544.0
15°	9823.4	9831.0	9869.1	10000.9	10016.1	9813.3	9166.7	8038.3	6722.2	6542.2	4972.6
17.5°	10325.5	10378.7	10439.6	10563.8	10675.4	10594.3	10137.8	9032.3	7472.8	7338.4	5431.5
20°	11154.7	11228.2	11192.7	11268.8	11327.1	11334.7	10982.2	9950.2	8383.1	8157.4	5956.4
22.5°	12480.9	12478.3	12387.0	12250.1	12136.0	12130.9	11811.4	10893.5	9209.8	8991.7	6483.9
25°	14157.0	14164.6	13987.1	13596.6	13312.6	12965.2	12597.5	11720.1	10094.7	9825.9	7039.2
27.5°	16079.1	16030.9	15762.1	15224.5	14661.6	14068.2	13538.3	12681.2	11033.0	10809.8	7675.6
30°	17805.9	17788.1	17473.7	16817.0	16076.5	15480.6	14712.3	13885.6	12247.6	11973.7	8388.2
32.5°	19413.5	19438.9	19002.7	18323.2	17608.1	16920.9	16109.5	15036.9	13439.4	13051.4	9164.1
35°	20668.7	20694.1	20242.7	19677.3	18941.9	18371.4	17598.0	16264.2	14615.9	14288.8	10056.7
37.5°	21338.2	21371.1	21109.9	20683.9	20225.0	19938.4	19218.3	17843.9	16046.1	15848.3	11111.6
40°	21464.9	21503.0	21388.9	21274.8	21249.4	21454.8	21244.3	19705.1	18029.0	17719.7	12683.7
42.5°	21084.6	21135.3	21186.0	21439.6	21956.9	22710.0	23442.8	22230.7	20582.5	20166.6	14605.8
45°	20085.5	20080.4	20280.8	20937.5	22096.3	23704.0	25740.2	25392.8	24061.5	23567.1	17321.6
47.5°	18376.4	18351.1	18784.7	19720.4	21525.8	23886.6	27614.1	29231.9	28501.6	28045.2	20240.2
50°	15772.2	15896.5	16578.6	17884.5	20108.3	23333.8	28192.2	31749.9	32145.4	31661.1	22598.4
52.5°	12721.7	12716.7	13786.8	15559.2	18008.7	22116.6	27789.0	32206.3	33329.6	32959.4	23759.8
55°	9415.2	9481.1	10594.3	12382.0	15282.8	19895.3	26473.0	31737.2	33781.0	33519.8	24525.6
57°	7003.7	7120.3	8012.9	9904.6	12909.4	17696.8	24720.8	30897.8	33958.5	33816.5	25162.0
57.5°	6537.1	6542.2	7411.9	9131.2	12214.6	16852.5	24218.7	30547.9	33953.4	33874.8	25266.0
60°	4024.2	4151.0	4752.0	6172.0	8941.0	13152.8	20853.8	28537.1	33689.7	33803.8	25709.7
62.5°	2408.9	2462.2	2852.7	3719.9	5763.7	9600.3	17065.5	25963.3	33002.5	33349.9	25679.3
65°	1549.3	1562.0	1739.5	2251.7	3603.3	6488.9	13150.3	22562.9	31225.0	31864.0	24675.2
67.5°	1196.9	1217.1	1288.1	1478.3	2089.4	4042.0	9301.1	18934.3	28349.4	29173.6	22240.9
70°	1062.5	1072.6	1098.0	1158.8	1382.0	2282.2	5786.5	14790.9	23508.7	23742.0	17405.2
72.5°	867.2	895.1	973.7	994.0	1095.4	1425.1	3220.4	9927.4	15795.1	15853.4	9737.2
75°	672.0	677.0	793.7	852.0	923.0	981.3	1437.8	5005.5	7586.9	7181.2	3752.9
77.5°	502.1	524.9	578.1	651.7	753.1	702.4	644.1	1886.6	2355.7	2312.6	1090.4
80°	322.0	334.7	403.2	489.4	585.8	459.0	362.6	552.8	517.3	532.5	261.2
82.5°	162.3	164.8	258.6	398.1	372.8	230.8	228.2	225.7	192.7	190.2	121.7
85°	17.8	38.0	167.4	228.2	167.4	76.1	106.5	104.0	101.4	104.0	71.0
87.5°	2.5	2.5	27.9	33.0	22.8	25.4	30.4	33.0	40.6	38.0	30.4
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°	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8	3075.8
2.5°	3167.1	3065.7	2878.1	2698.0	2563.6	2477.4	2365.8	2325.3	2266.9	2259.3	2231.4
5°	3304.1	3111.3	2784.2	2525.6	2317.7	2160.4	2023.5	1909.4	1818.1	1797.8	1808.0
7.5°	3499.3	3212.8	2756.3	2403.9	2114.8	1846.0	1627.9	1493.5	1397.2	1361.7	1366.8
10°	3719.9	3347.2	2751.3	2274.5	1833.3	1503.7	1265.3	1146.1	1090.4	1070.1	1047.3
12.5°	3981.1	3501.8	2738.6	2074.2	1524.0	1199.4	1029.5	958.5	905.3	890.0	890.0
15°	4275.2	3666.7	2677.7	1825.7	1237.4	991.5	877.4	821.6	803.8	788.6	788.6
17.5°	4582.1	3828.9	2550.9	1518.9	1027.0	849.5	778.5	745.5	720.1	702.4	702.4
20°	4932.0	3988.7	2348.1	1247.6	867.2	758.2	702.4	664.4	644.1	628.9	623.8
22.5°	5264.2	4118.0	2089.4	1024.4	755.6	682.1	631.4	590.8	570.5	562.9	562.9
25°	5609.0	4196.6	1777.5	846.9	689.7	618.7	562.9	530.0	512.2	507.1	504.6
27.5°	5943.7	4242.3	1503.7	740.4	628.9	560.4	507.1	481.8	464.0	459.0	461.5
30°	6349.5	4249.9	1237.4	664.4	575.6	504.6	456.4	433.6	423.5	418.4	415.9
32.5°	6760.3	4239.7	1039.6	618.7	524.9	456.4	415.9	398.1	390.5	382.9	382.9
35°	7221.8	4186.5	885.0	573.1	476.7	415.9	380.4	365.1	355.0	347.4	344.9
37.5°	7794.8	4158.6	796.2	522.4	433.6	377.8	344.9	329.6	322.0	311.9	309.4
40°	8697.5	4282.8	768.3	476.7	390.5	342.3	311.9	294.1	284.0	273.9	271.3
42.5°	9823.4	4500.9	722.7	431.1	352.5	309.4	278.9	258.6	240.9	228.2	223.1
45°	11281.5	4787.5	651.7	382.9	319.5	273.9	246.0	220.6	197.8	187.6	185.1
47.5°	12810.5	5063.8	588.3	344.9	284.0	243.4	213.0	185.1	164.8	157.2	154.7
50°	13748.7	5119.6	547.7	301.8	248.5	210.5	180.0	154.7	142.0	134.4	134.4
52.5°	14177.3	5030.9	491.9	263.7	215.5	185.1	154.7	134.4	126.8	121.7	119.2
55°	14476.5	4894.0	418.4	228.2	185.1	157.2	136.9	121.7	111.6	106.5	104.0
57°	14651.4	4708.8	362.6	200.3	159.8	136.9	121.7	109.0	98.9	88.8	88.8
57.5°	14659.0	4637.8	347.4	197.8	152.1	131.9	119.2	106.5	93.8	83.7	81.1
60°	14433.4	4151.0	278.9	167.4	121.7	111.6	98.9	83.7	65.9	55.8	53.3
62.5°	13708.1	3532.3	230.8	142.0	98.9	86.2	71.0	63.4	45.6	33.0	33.0
65°	12610.2	2865.4	197.8	114.1	81.1	63.4	48.2	45.6	27.9	15.2	12.7
67.5°	11022.8	2231.4	167.4	93.8	68.5	45.6	33.0	30.4	15.2	5.1	0.0
70°	8398.3	1521.4	139.5	76.1	50.7	33.0	22.8	17.8	10.1	2.5	0.0
72.5°	4840.7	836.8	116.6	58.3	38.0	25.4	17.8	10.1	10.1	0.0	0.0
75°	1729.4	360.1	88.8	43.1	30.4	20.3	12.7	5.1	7.6	2.5	0.0
77.5°	550.3	192.7	58.3	33.0	25.4	15.2	10.1	5.1	5.1	2.5	0.0
80°	162.3	101.4	35.5	27.9	17.8	12.7	7.6	2.5	5.1	2.5	0.0
82.5°	88.8	50.7	27.9	20.3	17.8	10.1	7.6	2.5	2.5	2.5	0.0
85°	45.6	30.4	22.8	20.3	17.8	10.1	7.6	2.5	0.0	2.5	2.5
87.5°	25.4	22.8	22.8	20.3	17.8	12.7	7.6	2.5	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)