

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: P459317

Luminaire Tested: **GALN-SA7D-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36851 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

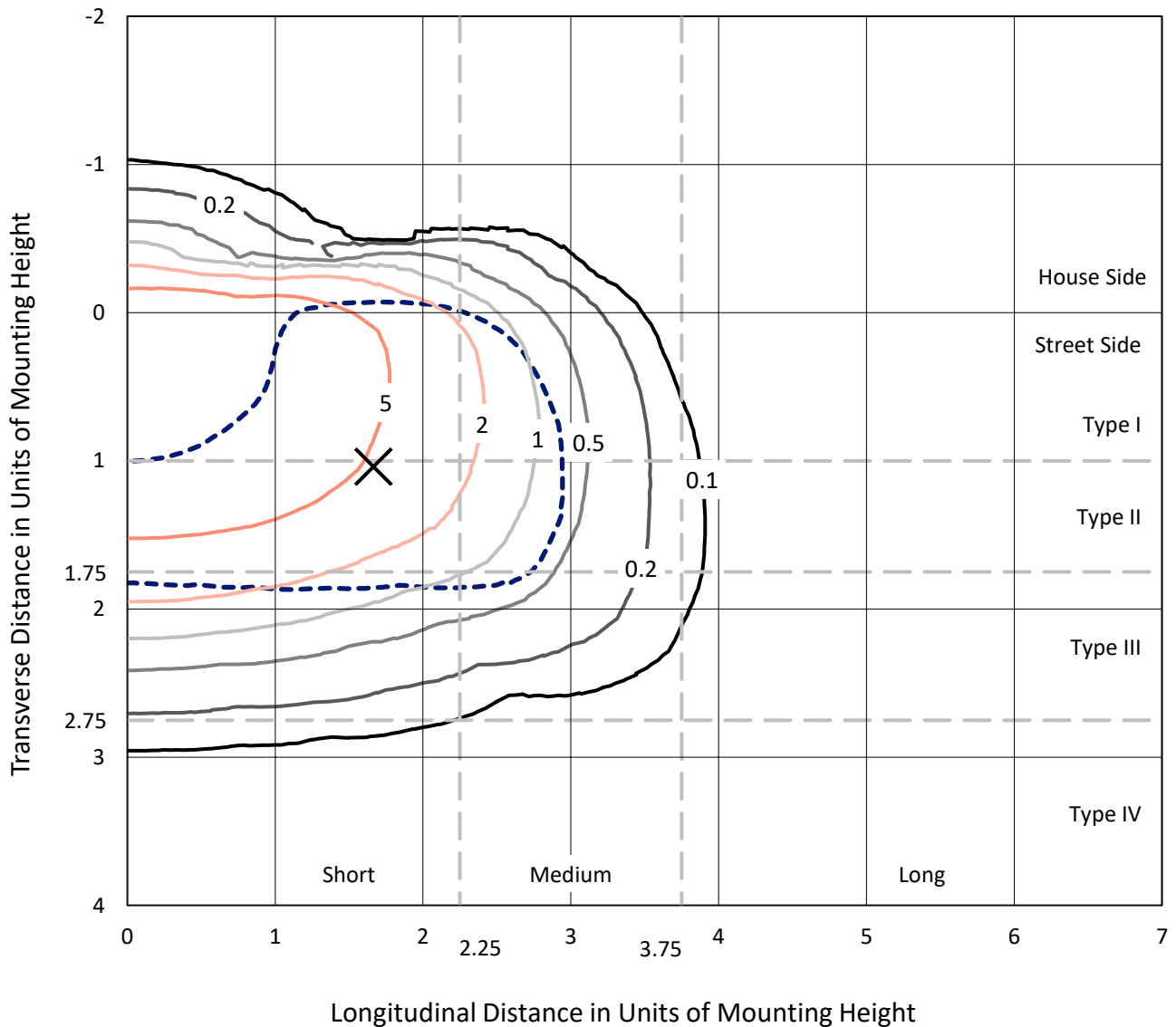
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

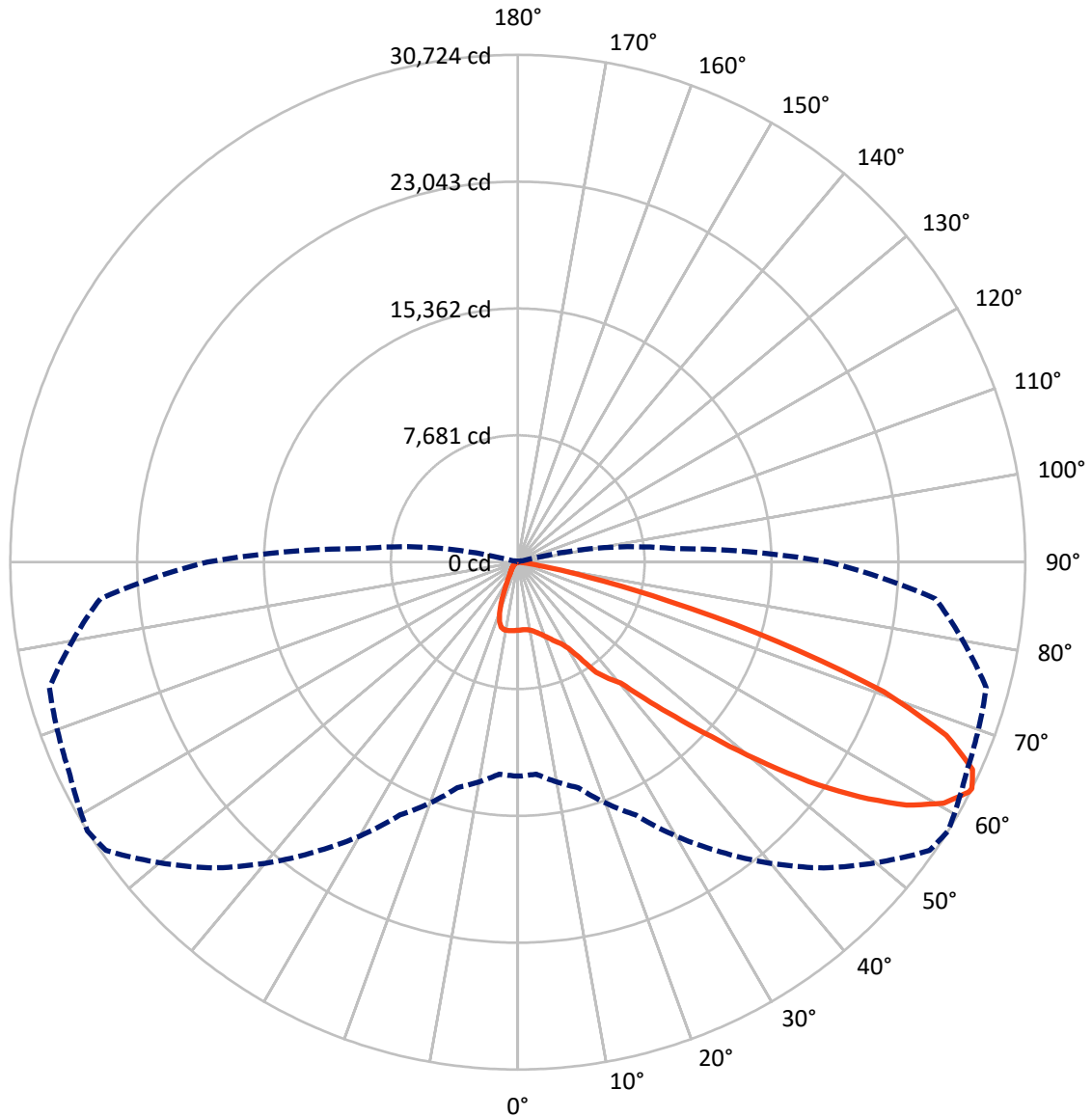
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3815.7	0.0	3815.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	33035.3	0.0	33035.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	36851.0	0.0	36851.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.2	1.0
10°-20°	1051.9	2.9
20°-30°	1825.6	5.0
30°-40°	3354.8	9.1
40°-50°	6315.4	17.1
50°-60°	10801.9	29.3
60°-70°	10342.9	28.1
70°-80°	2637.5	7.2
80°-90°	134.9	0.4
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°	36851.0	100.0
0°-180°	36851.0	100.0

**Coefficient of Utilization**



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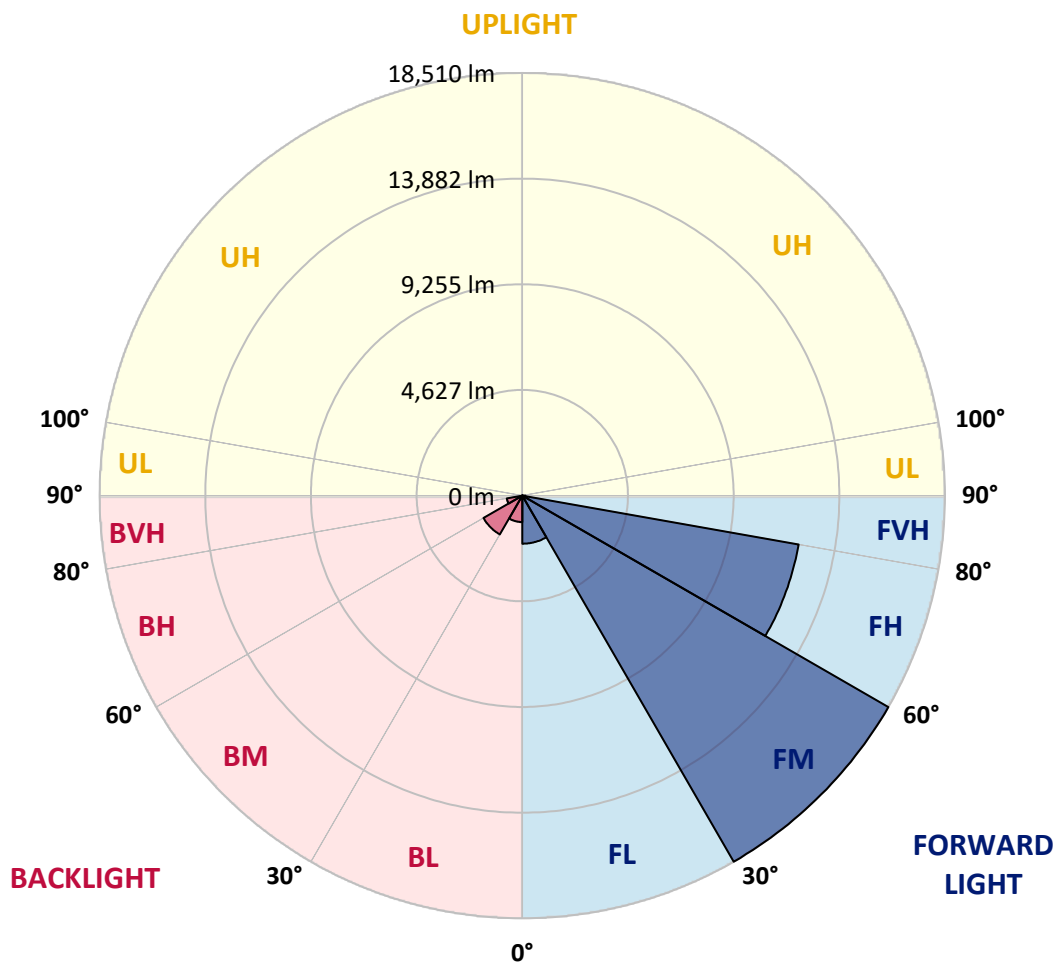
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.6	5.7			
FM (30°-60°)	18509.5	50.2			
FH (60°-80°)	12289.6	33.3			G5
FVH (80°-90°)	129.6	0.4			G2/225
BL (0°-30°)	1157.2	3.1	B3/2500		
BM (30°-60°)	1962.6	5.3	B2/2500		
BH (60°-80°)	690.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6
2.5°	4023.0	4036.8	4050.7	4056.3	4075.7	4095.1	4109.0	4106.2	4128.4	4139.5	4139.5
5°	3862.0	3862.0	3898.1	3931.4	3986.9	4042.4	4095.1	4106.2	4147.8	4186.6	4200.5
7.5°	3726.1	3734.4	3762.2	3823.2	3898.1	3995.2	4100.6	4125.6	4197.7	4283.8	4319.8
10°	3662.3	3667.8	3703.9	3767.7	3862.0	3995.2	4142.3	4189.4	4300.4	4436.4	4486.3
12.5°	3648.4	3656.7	3692.8	3764.9	3873.1	4034.1	4233.8	4283.8	4444.7	4619.5	4694.4
15°	3673.4	3678.9	3715.0	3792.7	3912.0	4103.4	4355.9	4425.3	4616.7	4819.2	4916.3
17.5°	3762.2	3756.6	3781.6	3845.4	3978.6	4189.4	4502.9	4586.2	4810.9	5088.3	5152.2
20°	4139.5	4103.4	4081.2	4025.7	4078.4	4311.5	4680.5	4802.6	5080.0	5363.0	5407.4
22.5°	4952.4	4871.9	4713.8	4497.4	4330.9	4478.0	4894.1	5035.6	5393.5	5671.0	5671.0
25°	5987.3	5884.6	5726.5	5254.8	4847.0	4752.6	5135.5	5313.1	5734.8	6015.0	5923.5
27.5°	7282.9	7202.5	6894.5	6345.2	5720.9	5232.6	5415.7	5579.4	6037.2	6375.7	6184.3
30°	8337.2	8298.4	8045.9	7554.8	6866.8	6153.7	5937.3	6045.5	6439.5	6830.7	6633.7
32.5°	9227.8	9227.8	8969.8	8512.0	7868.3	7235.8	6822.4	6900.1	7277.4	7729.6	7363.4
35°	10207.2	10173.9	9965.8	9530.2	8808.9	8251.2	8082.0	8187.4	8528.7	8864.4	7962.7
37.5°	11236.5	11225.4	11009.0	10587.3	9999.1	9297.2	8900.4	8928.2	9103.0	9308.3	8664.6
40°	12354.6	12371.3	12088.3	11827.5	11272.6	10554.0	9793.8	9619.0	9782.7	10362.6	9960.3
42.5°	13675.3	13636.4	13514.4	13159.2	12712.5	12282.5	11369.7	11305.9	11450.2	12071.6	11636.1
45°	15209.6	15265.0	15054.2	14857.2	14557.6	14199.7	13436.7	13325.7	13483.8	14449.4	13830.6
47.5°	16746.6	16693.9	16829.8	16793.8	16954.7	16688.3	16014.1	15786.6	16166.7	17082.3	16172.3
50°	17917.4	17975.7	18258.7	18672.1	19362.9	19512.7	18866.3	18788.6	18957.8	19546.0	18267.0
52.5°	18677.6	18871.8	19315.7	20378.4	21624.1	22592.4	22101.3	22059.7	21990.3	22148.5	20270.2
55°	19174.2	19371.2	19951.1	21515.9	23660.5	25233.7	25258.6	25081.1	24623.3	24509.5	22142.9
57.5°	18869.1	18907.9	19734.7	21826.6	24789.7	27117.5	27933.2	27755.6	26909.4	26479.4	23796.5
60°	16960.2	17040.7	18192.1	20650.3	24298.7	27733.4	29706.1	29625.6	28698.9	28213.4	25083.8
62.5°	13578.2	13811.2	14995.9	17737.1	22015.3	26695.8	30424.7	30652.2	29930.8	29262.2	25488.9
63°	12956.7	12881.8	14133.1	16888.1	21410.5	26182.5	30435.8	30724.3	29986.3	29362.0	25377.9
65°	9591.3	9816.0	10628.9	13317.4	17817.5	23793.7	29750.5	30261.0	29781.0	28920.9	24148.8
67.5°	5385.2	5374.1	6273.0	8714.6	12471.2	18663.7	26901.1	27980.4	27880.5	25952.2	20017.7
70°	2635.7	2677.3	3046.3	4516.8	7233.0	12876.2	22353.8	23519.0	23555.1	20383.9	13841.7
72.5°	1193.0	1212.4	1476.0	2200.1	3717.8	6855.7	15403.8	16516.3	16311.0	12990.0	7643.6
75°	629.8	671.4	812.9	1107.0	1792.3	2827.2	8378.8	9455.3	9025.3	5934.6	2813.3
77.5°	466.1	480.0	552.1	704.7	960.0	1101.5	3615.1	4300.4	4028.5	2147.4	932.2
80°	341.3	352.4	410.6	499.4	604.8	560.4	1362.3	1562.0	1401.1	729.7	285.8
82.5°	208.1	210.9	299.6	371.8	380.1	313.5	449.5	482.8	505.0	410.6	155.4
85°	74.9	94.3	202.5	269.1	224.7	158.1	188.7	208.1	227.5	260.8	91.6
87.5°	8.3	11.1	97.1	130.4	63.8	58.3	69.4	77.7	83.2	97.1	44.4
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°	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6	4125.6
2.5°	4150.6	4161.7	4153.4	4139.5	4136.7	4128.4	4111.7	4111.7	4111.7	4117.3	4111.7
5°	4211.6	4219.9	4200.5	4172.8	4142.3	4103.4	4061.8	4036.8	4034.1	4028.5	4014.6
7.5°	4328.1	4339.2	4294.9	4228.3	4145.0	4050.7	3961.9	3878.7	3839.8	3809.3	3809.3
10°	4497.4	4508.5	4419.7	4300.4	4133.9	3942.5	3731.6	3540.2	3390.4	3321.0	3304.4
12.5°	4699.9	4705.5	4558.4	4350.3	4075.7	3706.7	3257.2	2838.3	2546.9	2413.8	2399.9
15°	4921.9	4883.0	4688.8	4369.8	3909.2	3221.1	2444.3	1931.0	1628.6	1539.8	1573.1
17.5°	5146.6	5074.5	4788.7	4339.2	3534.7	2444.3	1642.5	1317.9	1223.5	1198.6	1198.6
20°	5357.5	5257.6	4860.8	4206.1	2885.4	1684.1	1218.0	1140.3	1123.7	1107.0	1109.8
22.5°	5568.3	5415.7	4924.7	3909.2	2150.2	1204.1	1090.4	1065.4	1043.2	1021.0	1018.2
25°	5773.6	5562.8	4949.6	3359.9	1464.9	1034.9	996.0	962.7	918.3	893.4	887.8
27.5°	5987.3	5740.3	4933.0	2666.2	1068.2	926.7	887.8	840.7	787.9	743.6	743.6
30°	6397.9	6078.8	4874.7	1917.1	898.9	815.7	765.7	690.8	632.6	588.2	585.4
32.5°	6958.3	6520.0	4675.0	1348.4	799.0	718.6	643.7	560.4	499.4	466.1	466.1
35°	7457.7	6963.9	4300.4	993.3	718.6	624.3	532.7	452.2	405.1	382.9	374.6
37.5°	8217.9	7613.1	3784.4	807.4	640.9	541.0	446.7	371.8	332.9	316.3	316.3
40°	9358.2	8406.6	3151.8	707.5	566.0	460.6	371.8	313.5	283.0	263.6	263.6
42.5°	10773.2	9377.7	2510.9	635.3	496.6	396.7	310.7	266.3	238.6	224.7	222.0
45°	12554.4	10401.4	1933.8	568.8	441.1	338.5	263.6	224.7	197.0	188.7	191.4
47.5°	14413.3	11303.1	1498.2	510.5	382.9	285.8	224.7	194.2	174.8	163.7	163.7
50°	16000.3	11924.6	1137.5	443.9	338.5	241.4	197.0	174.8	158.1	152.6	149.8
52.5°	17326.5	12104.9	871.2	385.6	296.9	208.1	174.8	158.1	144.3	135.9	135.9
55°	18455.7	11946.8	682.5	324.6	249.7	180.3	155.4	141.5	124.9	116.5	113.8
57.5°	19116.0	11439.1	521.6	269.1	202.5	149.8	135.9	119.3	99.9	86.0	86.0
60°	19448.9	10701.1	399.5	222.0	155.4	119.3	111.0	88.8	69.4	58.3	55.5
62.5°	19049.4	9721.7	302.4	174.8	116.5	88.8	74.9	63.8	44.4	33.3	33.3
63°	18802.5	9438.7	291.3	166.5	108.2	83.2	69.4	58.3	38.8	30.5	27.7
65°	17140.6	8204.1	238.6	133.2	86.0	58.3	47.2	41.6	27.7	13.9	11.1
67.5°	13611.5	6275.8	188.7	99.9	61.0	41.6	27.7	25.0	8.3	0.0	0.0
70°	9202.9	4053.5	147.0	72.1	41.6	25.0	13.9	11.1	2.8	0.0	0.0
72.5°	4799.8	2078.1	113.8	52.7	25.0	16.6	8.3	2.8	0.0	0.0	0.0
75°	1698.0	707.5	83.2	33.3	16.6	8.3	2.8	0.0	0.0	0.0	0.0
77.5°	513.3	263.6	52.7	25.0	11.1	5.5	0.0	0.0	0.0	0.0	0.0
80°	180.3	97.1	30.5	16.6	8.3	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	88.8	47.2	19.4	13.9	8.3	2.8	0.0	0.0	0.0	0.0	0.0
85°	49.9	30.5	16.6	13.9	8.3	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	36.1	22.2	16.6	13.9	11.1	5.5	2.8	0.0	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)