

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: P455605

Luminaire Tested: **GALN-SA6D-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455605  
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-SA6D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 33679 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

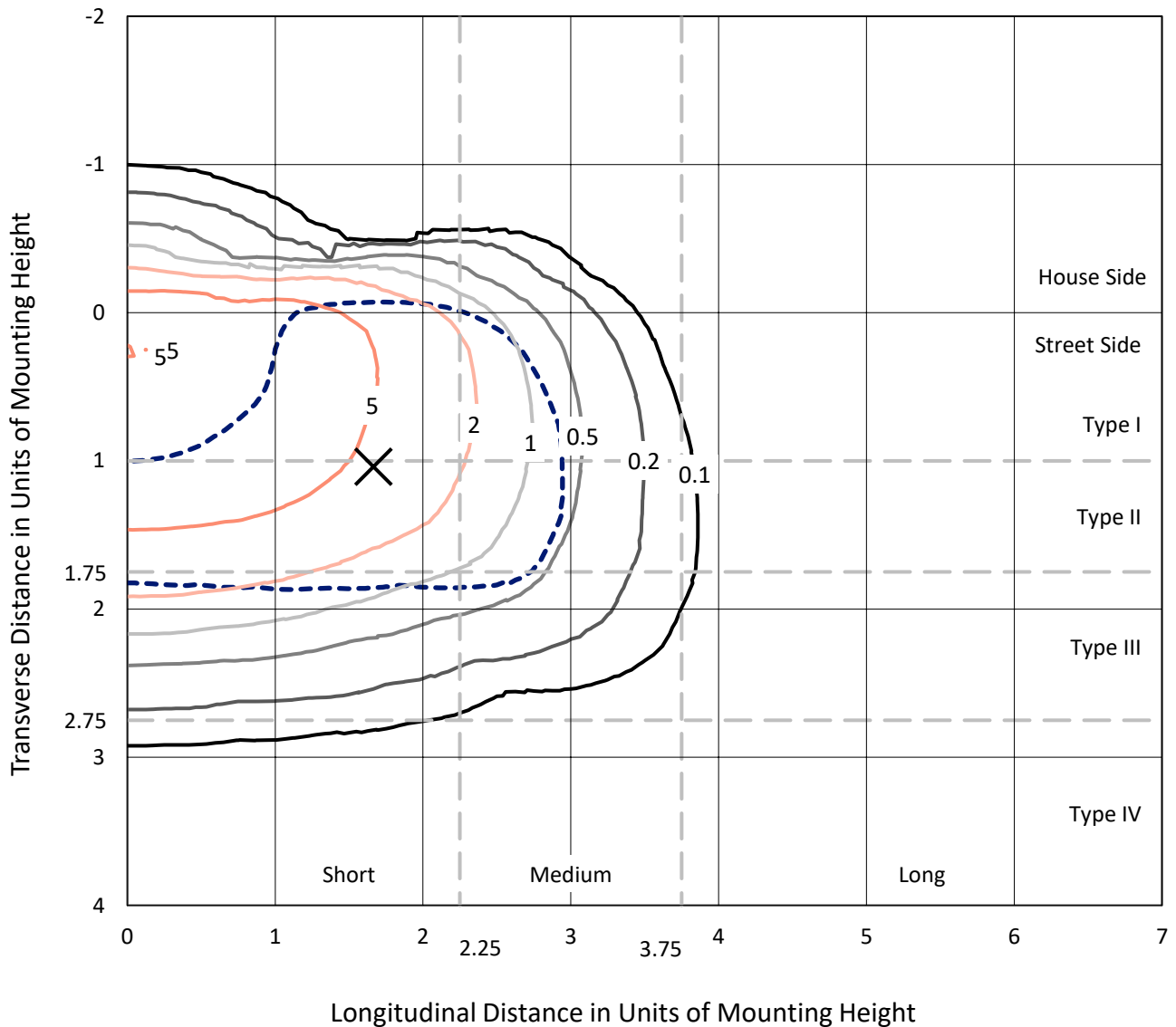
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

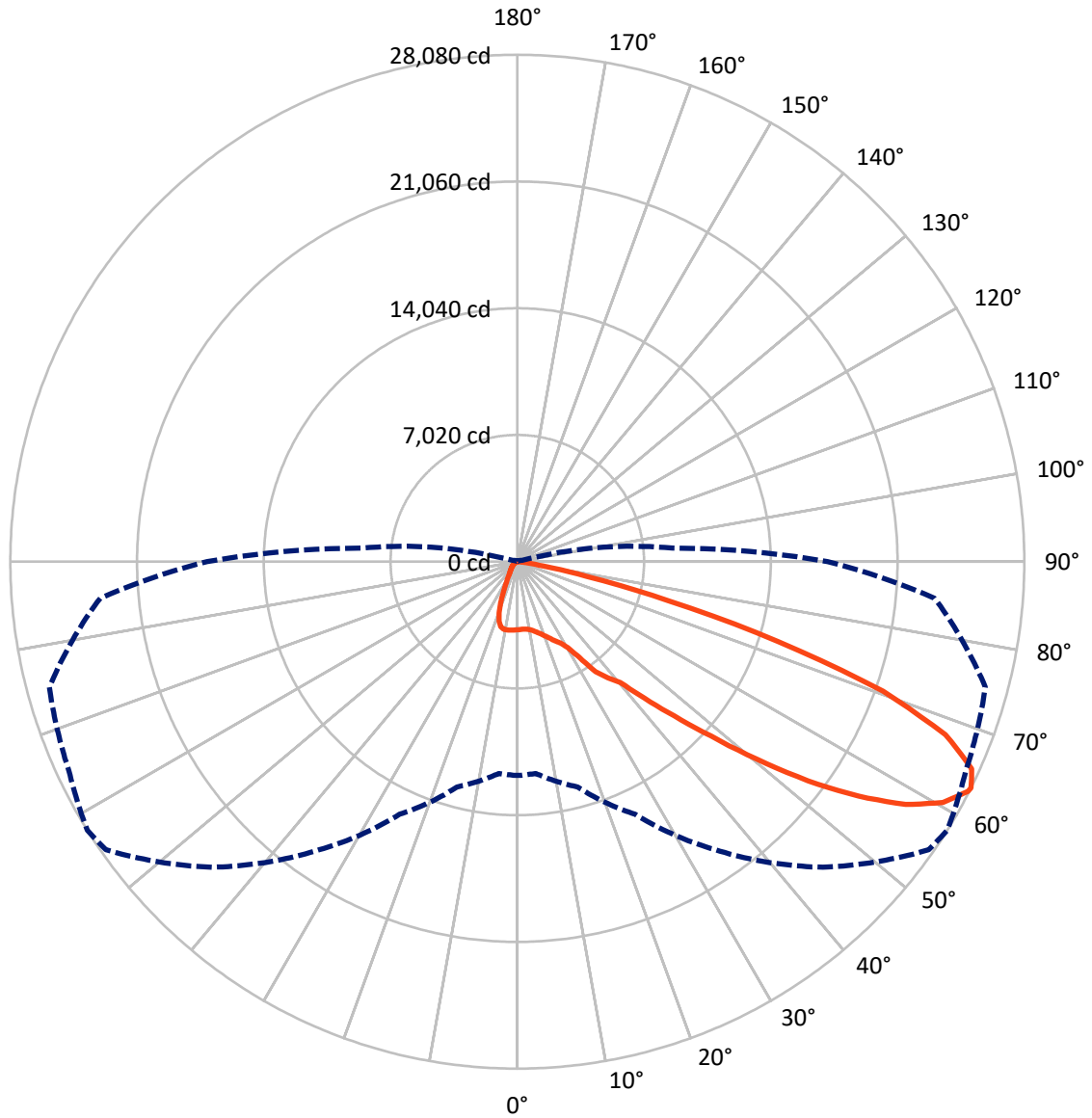
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3487.2	0.0	3487.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	30191.8	0.0	30191.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	33679.0	0.0	33679.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.0	1.0
10°-20°	961.4	2.9
20°-30°	1668.5	5.0
30°-40°	3066.0	9.1
40°-50°	5771.8	17.1
50°-60°	9872.1	29.3
60°-70°	9452.6	28.1
70°-80°	2410.4	7.2
80°-90°	123.2	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°	33679.0	100.0
0°-180°	33679.0	100.0

**Coefficient of Utilization**



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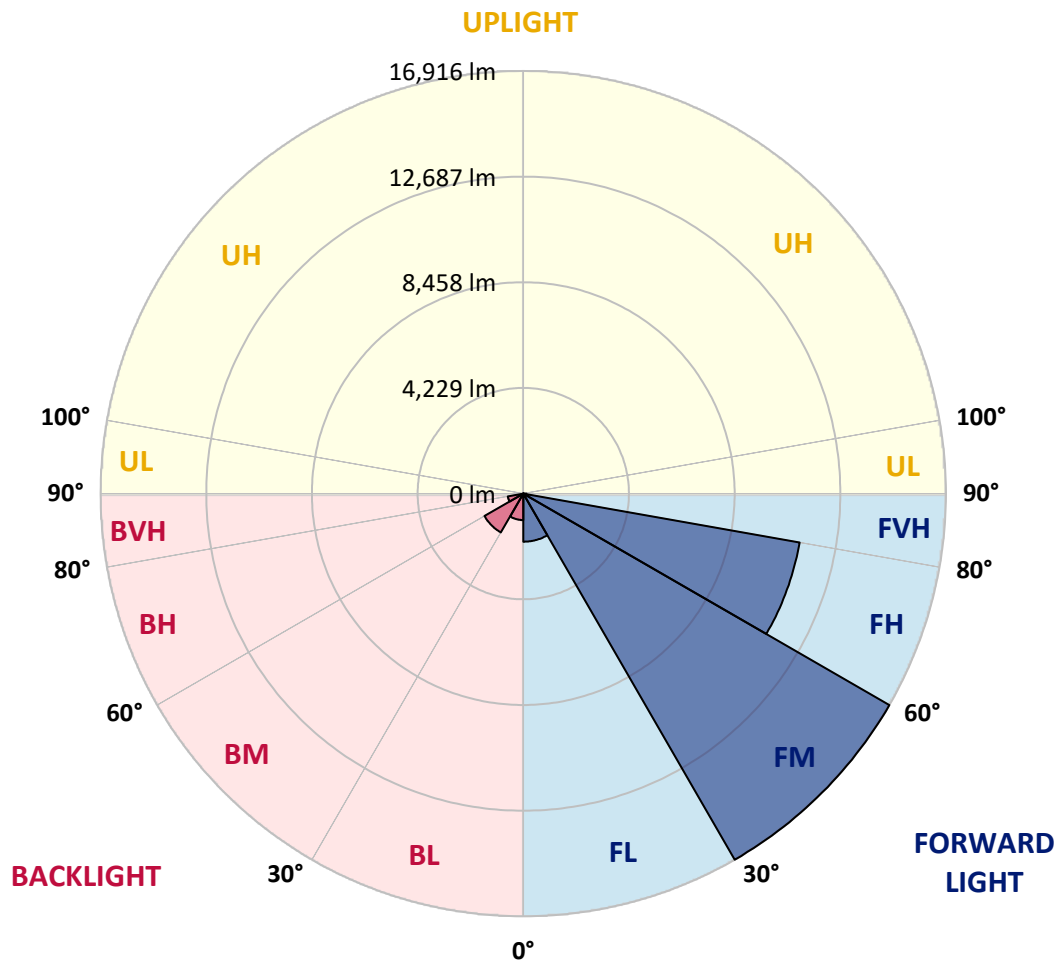
CATALOG NUMBER: GALN-SA6D-740-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1925.2	5.7			
FM (30°-60°)	16916.3	50.2			
FH (60°-80°)	11231.8	33.3			G4/12000
FVH (80°-90°)	118.5	0.4			G2/225
BL (0°-30°)	1057.6	3.1	B3/2500		
BM (30°-60°)	1793.6	5.3	B2/2500		
BH (60°-80°)	631.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.8	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
2.5°	3676.7	3689.4	3702.0	3707.1	3724.9	3742.6	3755.3	3752.7	3773.0	3783.2	3783.2
5°	3529.6	3529.6	3562.6	3593.0	3643.7	3694.4	3742.6	3752.7	3790.8	3826.3	3839.0
7.5°	3405.4	3413.0	3438.3	3494.1	3562.6	3651.3	3747.7	3770.5	3836.4	3915.0	3948.0
10°	3347.0	3352.1	3385.1	3443.4	3529.6	3651.3	3785.7	3828.8	3930.2	4054.5	4100.1
12.5°	3334.4	3342.0	3374.9	3440.9	3539.8	3686.8	3869.4	3915.0	4062.1	4221.8	4290.3
15°	3357.2	3362.3	3395.2	3466.2	3575.3	3750.2	3981.0	4044.3	4219.3	4404.4	4493.2
17.5°	3438.3	3433.3	3456.1	3514.4	3636.1	3828.8	4115.3	4191.4	4396.8	4650.4	4708.7
20°	3783.2	3750.2	3729.9	3679.2	3727.4	3940.4	4277.6	4389.2	4642.8	4901.4	4942.0
22.5°	4526.1	4452.6	4308.0	4110.3	3958.1	4092.5	4472.9	4602.2	4929.3	5182.8	5182.8
25°	5471.9	5378.1	5233.6	4802.5	4429.8	4343.5	4693.5	4855.7	5241.2	5497.3	5413.6
27.5°	6656.1	6582.5	6301.1	5799.0	5228.5	4782.2	4949.6	5099.2	5517.5	5826.9	5651.9
30°	7619.6	7584.1	7353.4	6904.5	6275.7	5624.0	5426.3	5525.2	5885.2	6242.7	6062.7
32.5°	8433.5	8433.5	8197.7	7779.3	7191.1	6612.9	6235.1	6306.1	6651.0	7064.3	6729.6
35°	9328.6	9298.2	9108.0	8709.9	8050.7	7541.0	7386.3	7482.7	7794.6	8101.4	7277.3
37.5°	10269.3	10259.2	10061.4	9676.0	9138.4	8496.9	8134.3	8159.7	8319.4	8507.1	7918.8
40°	11291.2	11306.4	11047.8	10809.4	10302.3	9645.6	8950.8	8791.1	8940.7	9470.6	9102.9
42.5°	12498.2	12462.7	12351.1	12026.5	11618.3	11225.3	10391.0	10332.7	10464.6	11032.6	10634.5
45°	13900.4	13951.1	13758.4	13578.3	13304.5	12977.4	12280.1	12178.7	12323.2	13205.6	12640.2
47.5°	15305.1	15256.9	15381.2	15348.2	15495.3	15251.9	14635.7	14427.8	14775.2	15611.9	14780.2
50°	16375.2	16428.4	16687.0	17064.8	17696.2	17833.1	17242.3	17171.3	17326.0	17863.6	16694.6
52.5°	17069.9	17247.4	17653.1	18624.3	19762.8	20647.7	20198.9	20160.9	20097.5	20242.0	18525.4
55°	17523.8	17703.8	18233.8	19663.9	21623.9	23061.6	23084.5	22922.2	22503.8	22399.8	20236.9
57.5°	17244.9	17280.4	18036.0	19947.9	22655.9	24783.3	25528.8	25366.5	24593.2	24200.1	21748.2
60°	15500.4	15573.9	16626.2	18872.8	22207.1	25346.2	27149.1	27075.5	26228.6	25784.9	22924.7
62.5°	12409.4	12622.4	13705.1	16210.3	20120.3	24397.9	27805.8	28013.7	27354.5	26743.4	23294.9
63°	11841.4	11773.0	12916.5	15434.4	19567.5	23928.8	27816.0	28079.7	27405.2	26834.7	23193.5
65°	8765.7	8971.1	9714.0	12171.1	16283.9	21745.6	27189.7	27656.2	27217.5	26431.5	22070.2
67.5°	4921.7	4911.5	5733.1	7964.4	11397.7	17057.2	24585.6	25571.9	25480.6	23718.4	18294.6
70°	2408.9	2446.9	2784.1	4128.0	6610.4	11767.9	20429.6	21494.6	21527.6	18629.3	12650.3
72.5°	1090.3	1108.1	1349.0	2010.8	3397.8	6265.6	14077.9	15094.7	14907.0	11871.9	6985.7
75°	575.6	613.6	742.9	1011.7	1638.0	2583.8	7657.6	8641.5	8248.4	5423.7	2571.1
77.5°	426.0	438.7	504.6	644.1	877.3	1006.6	3303.9	3930.2	3681.7	1962.6	852.0
80°	311.9	322.0	375.3	456.4	552.8	512.2	1245.0	1427.6	1280.5	666.9	261.2
82.5°	190.2	192.7	273.8	339.8	347.4	286.5	410.8	441.2	461.5	375.3	142.0
85°	68.5	86.2	185.1	246.0	205.4	144.5	172.4	190.2	207.9	238.4	83.7
87.5°	7.6	10.1	88.7	119.2	58.3	53.2	63.4	71.0	76.1	88.7	40.6
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°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
2.5°	3793.3	3803.5	3795.9	3783.2	3780.6	3773.0	3757.8	3757.8	3757.8	3762.9	3757.8
5°	3849.1	3856.7	3839.0	3813.6	3785.7	3750.2	3712.2	3689.4	3686.8	3681.7	3669.1
7.5°	3955.6	3965.7	3925.2	3864.3	3788.2	3702.0	3620.9	3544.8	3509.3	3481.4	3481.4
10°	4110.3	4120.4	4039.3	3930.2	3778.1	3603.1	3410.4	3235.5	3098.6	3035.2	3019.9
12.5°	4295.4	4300.4	4166.1	3975.9	3724.9	3387.6	2976.8	2594.0	2327.7	2206.0	2193.3
15°	4498.2	4462.7	4285.2	3993.6	3572.7	2943.9	2233.9	1764.8	1488.4	1407.3	1437.7
17.5°	4703.6	4637.7	4376.5	3965.7	3230.4	2233.9	1501.1	1204.4	1118.2	1095.4	1095.4
20°	4896.3	4805.0	4442.4	3844.0	2637.1	1539.1	1113.1	1042.1	1026.9	1011.7	1014.3
22.5°	5089.0	4949.6	4500.8	3572.7	1965.1	1100.5	996.5	973.7	953.4	933.1	930.6
25°	5276.7	5084.0	4523.6	3070.7	1338.8	945.8	910.3	879.9	839.3	816.5	811.4
27.5°	5471.9	5246.2	4508.4	2436.7	976.2	846.9	811.4	768.3	720.1	679.6	679.6
30°	5847.2	5555.6	4455.1	1752.1	821.5	745.5	699.8	631.4	578.1	537.6	535.0
32.5°	6359.4	5958.8	4272.6	1232.3	730.3	656.7	588.3	512.2	456.4	426.0	426.0
35°	6815.8	6364.5	3930.2	907.8	656.7	570.5	486.8	413.3	370.2	349.9	342.3
37.5°	7510.6	6957.8	3458.6	737.9	585.7	494.4	408.2	339.8	304.3	289.1	289.1
40°	8552.7	7683.0	2880.5	646.6	517.3	420.9	339.8	286.5	258.6	240.9	240.9
42.5°	9845.9	8570.5	2294.8	580.7	453.9	362.6	284.0	243.4	218.1	205.4	202.9
45°	11473.8	9506.1	1767.3	519.8	403.2	309.3	240.9	205.4	180.0	172.4	175.0
47.5°	13172.6	10330.2	1369.2	466.6	349.9	261.2	205.4	177.5	159.7	149.6	149.6
50°	14623.0	10898.2	1039.6	405.7	309.3	220.6	180.0	159.7	144.5	139.5	136.9
52.5°	15835.1	11063.0	796.2	352.5	271.3	190.2	159.7	144.5	131.9	124.2	124.2
55°	16867.1	10918.5	623.8	296.7	228.2	164.8	142.0	129.3	114.1	106.5	104.0
57.5°	17470.5	10454.4	476.7	246.0	185.1	136.9	124.2	109.0	91.3	78.6	78.6
60°	17774.8	9780.0	365.1	202.9	142.0	109.0	101.4	81.1	63.4	53.2	50.7
62.5°	17409.7	8884.9	276.4	159.7	106.5	81.1	68.5	58.3	40.6	30.4	30.4
63°	17184.0	8626.2	266.2	152.1	98.9	76.1	63.4	53.2	35.5	27.9	25.4
65°	15665.2	7497.9	218.1	121.7	78.6	53.2	43.1	38.0	25.4	12.7	10.1
67.5°	12439.8	5735.6	172.4	91.3	55.8	38.0	25.4	22.8	7.6	0.0	0.0
70°	8410.7	3704.6	134.4	65.9	38.0	22.8	12.7	10.1	2.5	0.0	0.0
72.5°	4386.7	1899.2	104.0	48.2	22.8	15.2	7.6	2.5	0.0	0.0	0.0
75°	1551.8	646.6	76.1	30.4	15.2	7.6	2.5	0.0	0.0	0.0	0.0
77.5°	469.1	240.9	48.2	22.8	10.1	5.1	0.0	0.0	0.0	0.0	0.0
80°	164.8	88.7	27.9	15.2	7.6	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	81.1	43.1	17.7	12.7	7.6	2.5	0.0	0.0	0.0	0.0	0.0
85°	45.6	27.9	15.2	12.7	7.6	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	33.0	20.3	15.2	12.7	10.1	5.1	2.5	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)