

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: P459207

Luminaire Tested: **GALN-SA6D-735-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30913 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

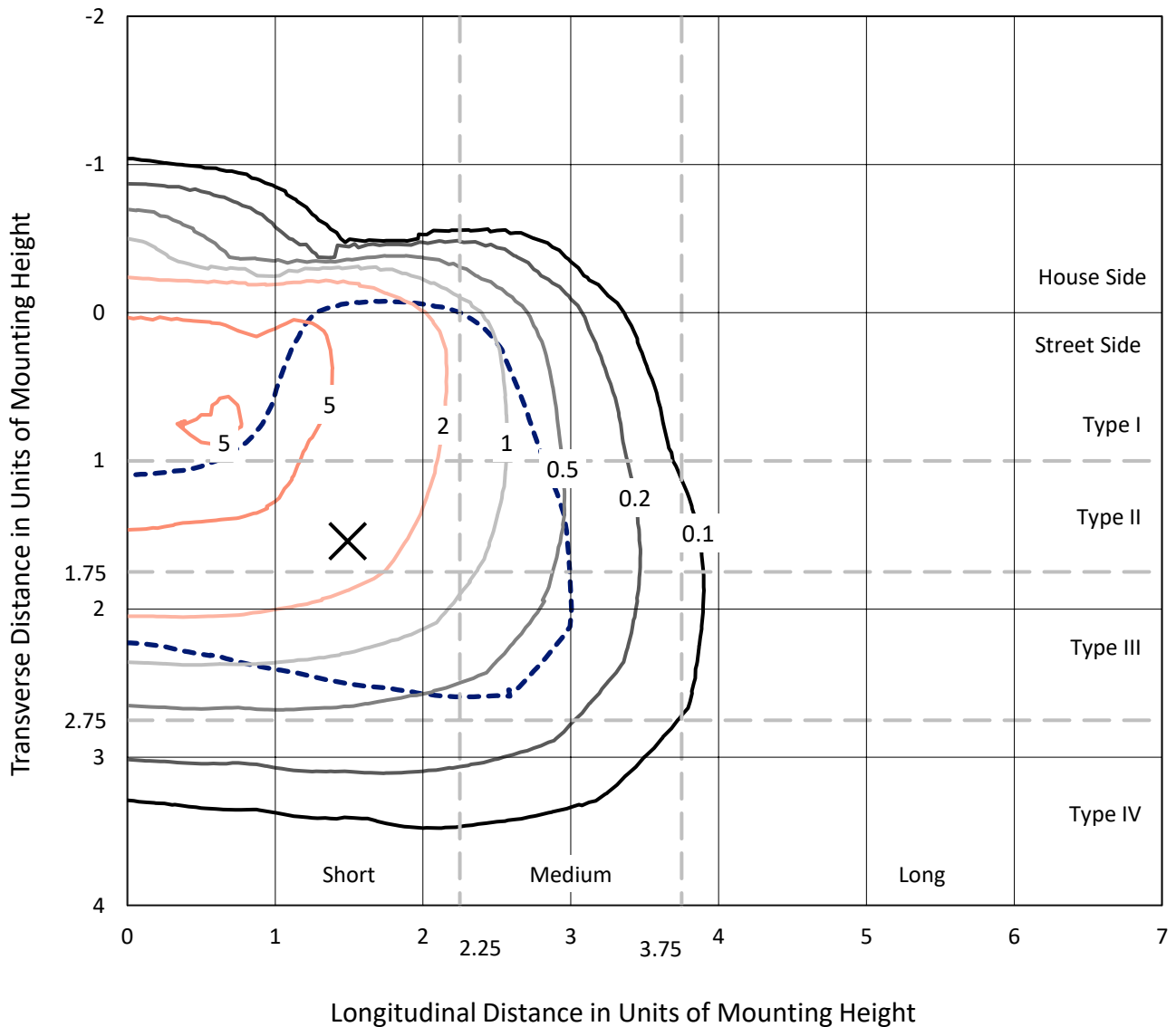
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

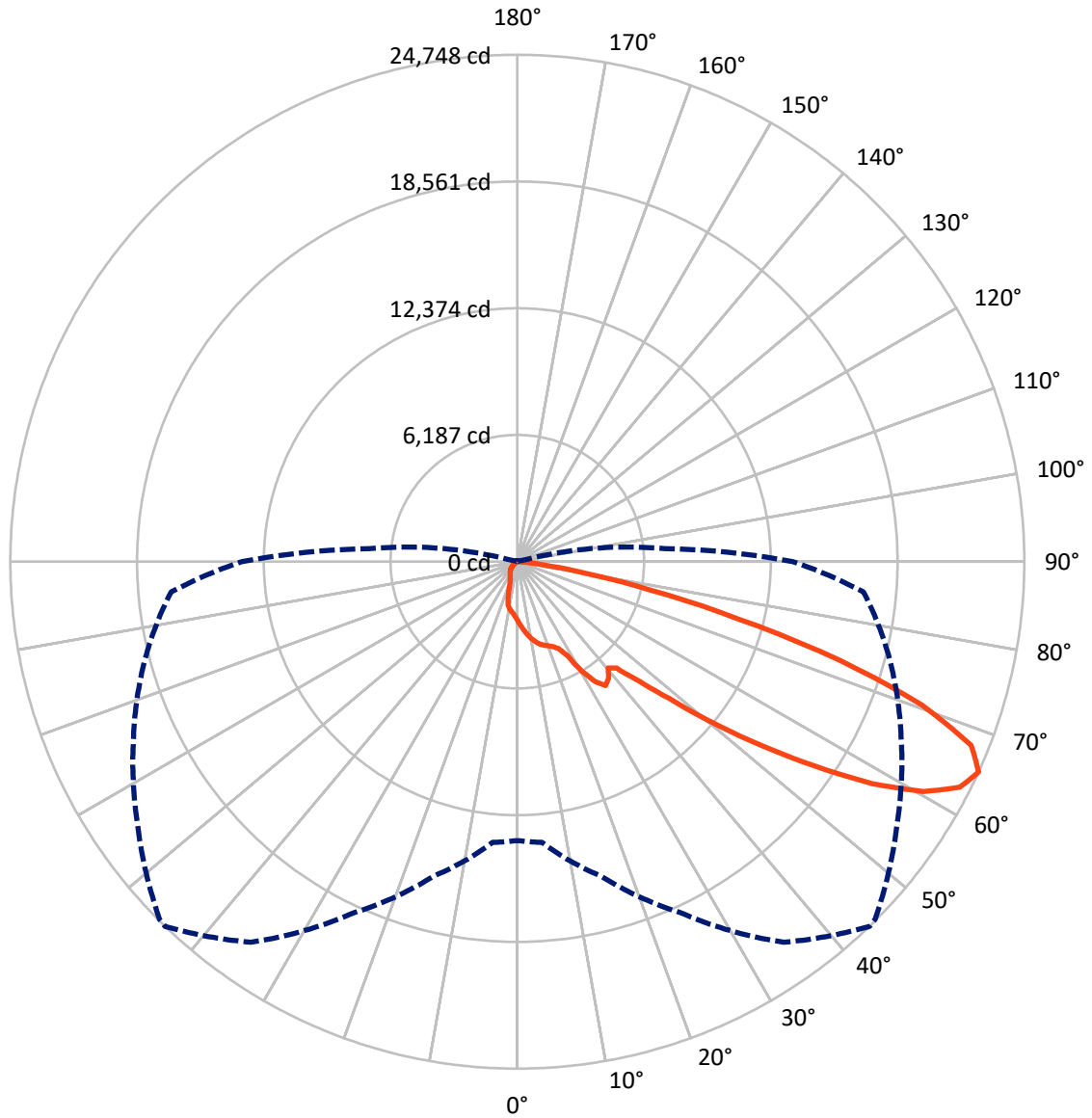
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2848.2	0.0	2848.2
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	28064.8	0.0	28064.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	30913.0	0.0	30913.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.1	0.9
10°-20°	861.2	2.8
20°-30°	1460.3	4.7
30°-40°	2428.1	7.9
40°-50°	4239.5	13.7
50°-60°	8282.4	26.8
60°-70°	9609.5	31.1
70°-80°	3499.3	11.3
80°-90°	246.6	0.8
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°	30913.0	100.0
0°-180°	30913.0	100.0

**Coefficient of Utilization**



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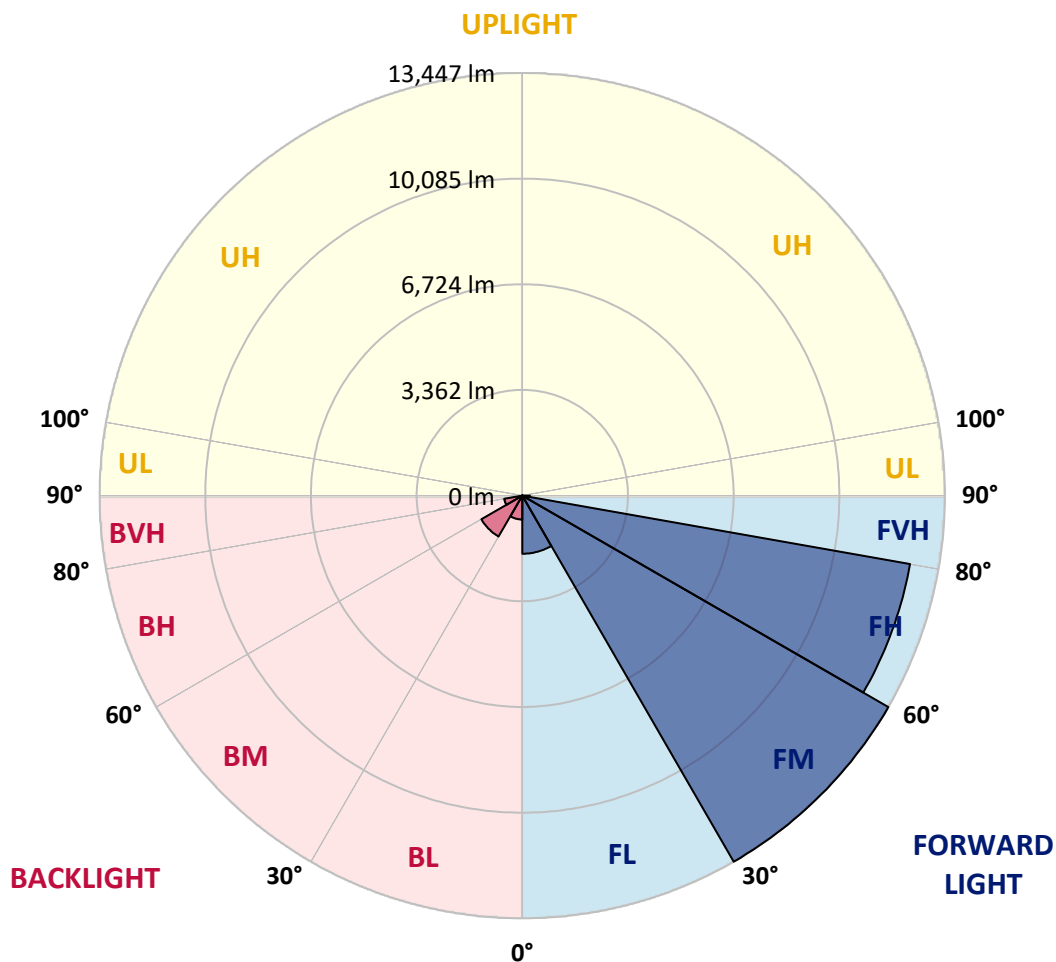
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1848.9	6.0			
FM	(30°-60°)	13447.2	43.5			
FH	(60°-80°)	12525.5	40.5			G5
FVH	(80°-90°)	243.2	0.8			G3/500
BL	(0°-30°)	758.8	2.5	B2/1000		
BM	(30°-60°)	1502.7	4.9	B2/2500		
BH	(60°-80°)	583.3	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.4	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1
2.5°	3238.5	3224.3	3217.2	3179.4	3151.1	3115.7	3115.7	3070.8	3018.8	2962.1	2910.1
5°	3599.9	3576.3	3545.6	3512.5	3446.4	3351.9	3351.9	3257.4	3148.7	3051.9	2945.6
7.5°	3947.1	3925.9	3873.9	3810.1	3701.5	3602.3	3595.2	3458.2	3328.2	3181.8	3030.6
10°	4251.8	4235.3	4190.4	4067.6	3954.2	3824.3	3821.9	3668.4	3517.2	3337.7	3151.1
12.5°	4464.4	4466.8	4407.7	4289.6	4143.2	4020.4	4010.9	3859.7	3701.5	3507.8	3278.6
15°	4615.6	4615.6	4554.2	4421.9	4289.6	4181.0	4171.5	4039.2	3876.3	3666.0	3418.0
17.5°	4658.1	4672.3	4606.2	4488.1	4381.8	4287.3	4284.9	4173.9	4044.0	3840.8	3559.7
20°	4641.6	4655.8	4603.8	4511.7	4438.4	4384.1	4377.0	4332.2	4211.7	4020.4	3710.9
22.5°	4606.2	4620.3	4582.5	4528.2	4492.8	4509.3	4497.5	4535.3	4471.5	4240.0	3890.4
25°	4613.2	4627.4	4599.1	4568.4	4599.1	4700.6	4731.4	4894.3	4837.6	4518.8	4084.1
27.5°	4835.3	4863.6	4823.5	4837.6	4946.3	5182.5	5241.6	5522.7	5272.3	4873.1	4386.5
30°	5329.0	5310.1	5234.5	5303.0	5680.9	6181.7	6165.2	6120.3	5728.2	5281.7	4745.5
32.5°	5777.8	5761.2	5756.5	6051.8	6736.8	6980.1	6968.3	6533.7	6136.8	5749.4	5099.8
35°	5959.7	5895.9	5881.7	6597.4	7743.1	7421.8	7348.6	6703.7	6632.9	6259.7	5461.3
37.5°	6507.7	6462.8	6243.1	6687.2	7341.5	7235.2	7178.5	6996.6	7162.0	6710.8	5869.9
40°	7636.8	7511.6	7313.2	6878.5	6772.2	6817.1	6873.8	7372.2	7788.0	7327.3	6415.6
42.5°	9039.9	9011.5	8643.0	7832.8	7036.8	7098.2	7171.4	8156.4	8687.9	8255.7	7306.1
45°	10724.1	10764.2	10232.8	9276.1	8232.0	8284.0	8390.3	9313.9	9906.8	9698.9	8706.8
47.5°	12254.7	12224.0	12044.5	11050.1	10086.3	9970.6	10143.0	10799.7	11593.4	11626.4	10445.4
50°	13794.9	13957.8	13690.9	13301.2	12585.4	12342.1	12278.4	12599.6	13809.0	13650.8	12533.5
52.5°	16008.2	16093.2	15592.4	15493.2	15656.2	14867.3	14803.5	14881.4	15963.3	15420.0	14097.2
55°	17399.5	17349.9	17163.3	17938.0	18582.9	17597.9	17517.6	17203.4	17751.4	16669.6	15601.9
57.5°	17838.8	17909.7	18344.3	19745.1	21271.0	20434.8	20288.4	19395.5	19041.2	17834.1	16986.1
60°	17642.8	17772.7	18710.5	20793.9	22910.3	22785.1	22659.9	21160.0	19967.1	18807.3	17956.9
62.5°	16246.8	16428.6	17928.6	20607.3	23465.4	24247.3	24091.4	22260.7	20583.6	19279.7	18127.0
65°	13615.3	13750.0	15904.2	18913.6	22676.5	24748.1	24691.4	22605.6	20680.5	18847.5	16962.5
67.5°	9706.0	10164.3	12160.3	15939.7	20342.7	23893.0	23989.8	22192.2	19771.1	16979.0	14047.6
70°	6101.4	6413.2	7844.6	11411.5	16308.2	20961.6	21280.5	20300.2	17158.5	13235.0	9403.7
72.5°	2910.1	3141.6	4162.1	7223.4	11510.7	16492.4	16745.2	16664.9	13268.1	8338.3	4851.8
75°	1296.8	1384.2	1986.6	3687.3	7431.3	11085.5	11739.8	11848.5	8291.1	4079.4	1887.3
77.5°	661.4	663.8	930.7	1785.8	3710.9	6614.0	6743.9	7124.2	4495.1	1797.6	656.7
80°	352.0	375.6	493.7	843.3	1925.1	3257.4	3240.8	3562.1	1993.6	881.1	219.7
82.5°	158.3	174.8	278.7	441.7	940.1	1235.4	1332.2	1457.4	855.1	562.2	96.8
85°	47.2	56.7	137.0	222.0	340.1	356.7	399.2	514.9	484.2	399.2	49.6
87.5°	7.1	7.1	56.7	61.4	49.6	63.8	66.1	73.2	155.9	146.5	26.0
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°	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1
2.5°	2881.8	2865.3	2806.2	2756.6	2714.1	2688.1	2657.4	2638.5	2629.1	2622.0	2624.3
5°	2893.6	2853.5	2751.9	2671.6	2610.2	2544.0	2499.1	2473.2	2461.3	2442.4	2442.4
7.5°	2959.8	2896.0	2754.2	2631.4	2525.1	2435.4	2350.3	2319.6	2298.4	2293.6	2288.9
10°	3054.2	2973.9	2780.2	2610.2	2459.0	2336.1	2215.7	2109.4	2026.7	1977.1	1970.0
12.5°	3172.3	3056.6	2820.4	2596.0	2402.3	2185.0	1866.1	1651.1	1507.0	1462.2	1469.2
15°	3281.0	3155.8	2860.5	2584.2	2298.4	1811.8	1450.3	1204.7	1131.5	1124.4	1126.7
17.5°	3410.9	3262.1	2907.8	2567.6	2012.5	1384.2	1077.1	1011.0	1025.2	1048.8	1046.4
20°	3545.6	3375.5	2964.5	2468.4	1606.3	1041.7	951.9	959.0	980.3	1001.5	1006.3
22.5°	3689.7	3505.4	3030.6	2229.9	1225.9	907.1	902.3	911.8	933.0	956.7	961.4
25°	3888.1	3668.4	3080.2	1918.1	928.3	838.6	848.0	864.5	883.4	909.4	914.1
27.5°	4143.2	3888.1	3106.2	1511.8	803.1	777.1	779.5	803.1	826.7	850.4	850.4
30°	4473.9	4150.3	3054.2	1143.3	741.7	718.1	708.6	722.8	753.5	777.1	779.5
32.5°	4769.1	4398.3	2917.2	874.0	696.8	663.8	640.1	642.5	654.3	668.5	670.8
35°	5064.4	4639.2	2683.4	734.6	649.6	611.8	576.4	557.5	548.0	540.9	548.0
37.5°	5442.4	4939.2	2371.6	668.5	609.4	562.2	512.6	472.4	439.4	418.1	422.8
40°	5929.0	5355.0	2003.1	626.0	571.6	514.9	448.8	396.8	340.1	321.3	311.8
42.5°	6732.1	5985.6	1615.7	590.5	533.8	465.3	382.7	311.8	259.8	240.9	245.7
45°	8000.5	6781.7	1244.8	552.7	496.0	411.0	321.3	245.7	203.1	193.7	198.4
47.5°	9682.4	7811.6	959.0	510.2	448.8	352.0	252.7	193.7	167.7	165.3	163.0
50°	11265.0	8770.6	800.8	463.0	392.1	292.9	207.9	163.0	146.5	144.1	144.1
52.5°	12696.5	9458.0	651.9	408.6	330.7	240.9	174.8	144.1	129.9	122.8	122.8
55°	13969.7	9906.8	529.1	342.5	259.8	191.3	151.2	129.9	113.4	103.9	101.6
57.5°	14931.0	9961.1	396.8	274.0	193.7	148.8	129.9	113.4	94.5	82.7	78.0
60°	15342.1	9491.1	292.9	207.9	144.1	118.1	103.9	92.1	70.9	59.1	56.7
62.5°	14928.7	8576.9	217.3	158.3	111.0	87.4	73.2	68.5	49.6	35.4	33.1
65°	13447.6	7256.5	172.4	120.5	82.7	63.8	47.2	44.9	30.7	16.5	14.2
67.5°	10773.7	5683.3	137.0	89.8	59.1	42.5	30.7	28.3	16.5	4.7	4.7
70°	7006.1	3633.0	111.0	66.1	37.8	28.3	18.9	14.2	9.4	2.4	0.0
72.5°	3465.2	1698.4	89.8	52.0	26.0	14.2	7.1	4.7	7.1	0.0	0.0
75°	1344.1	604.7	66.1	35.4	14.2	7.1	4.7	0.0	2.4	0.0	0.0
77.5°	446.4	200.8	40.2	18.9	9.4	4.7	0.0	0.0	0.0	0.0	0.0
80°	165.3	78.0	21.3	11.8	4.7	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	66.1	30.7	14.2	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.1	18.9	9.4	7.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.6	14.2	9.4	7.1	4.7	2.4	0.0	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)