

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: P647471

Luminaire Tested: **GALN-SA5D-835-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647471  
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-SA5D-835-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 21943.6 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

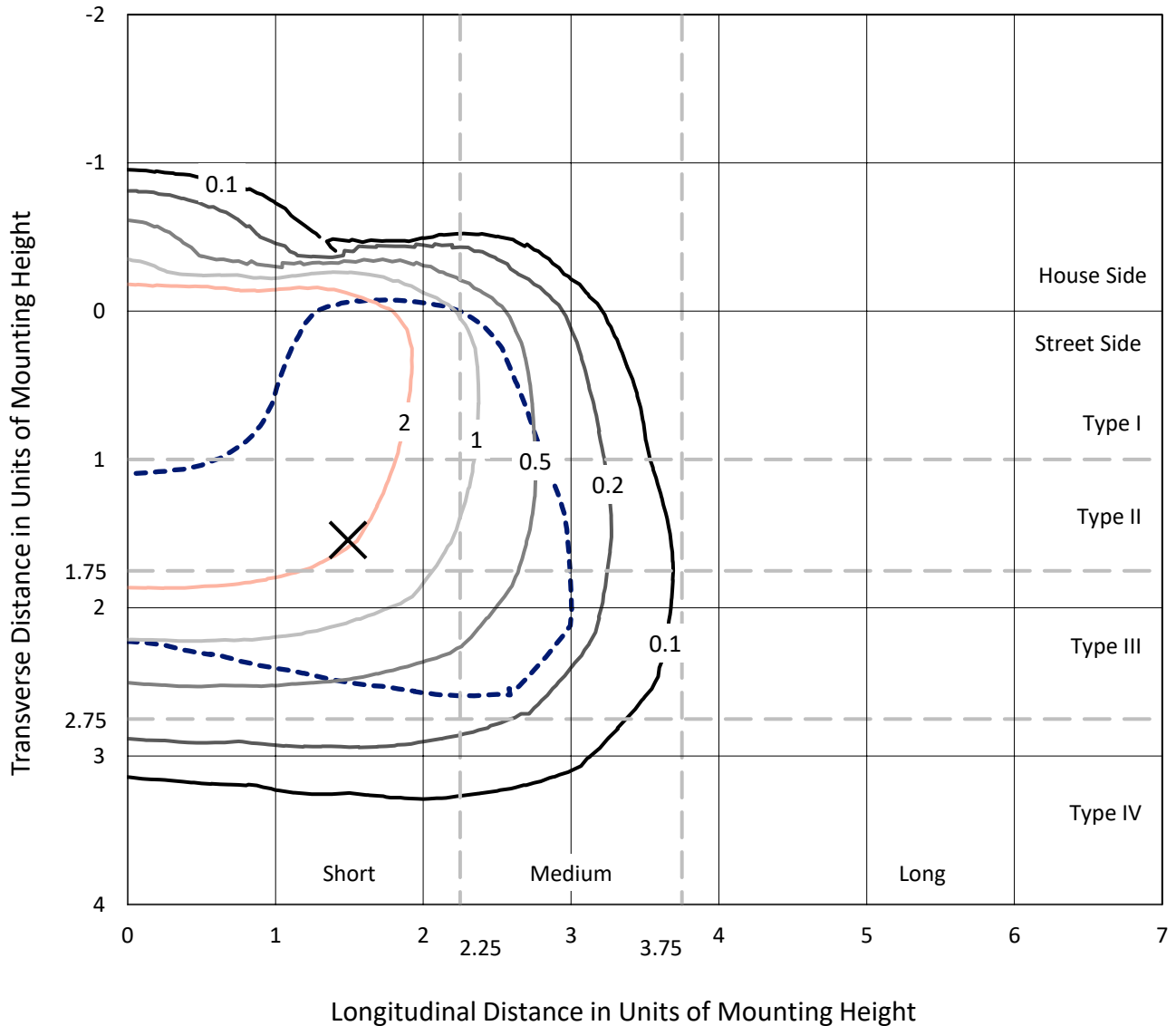
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

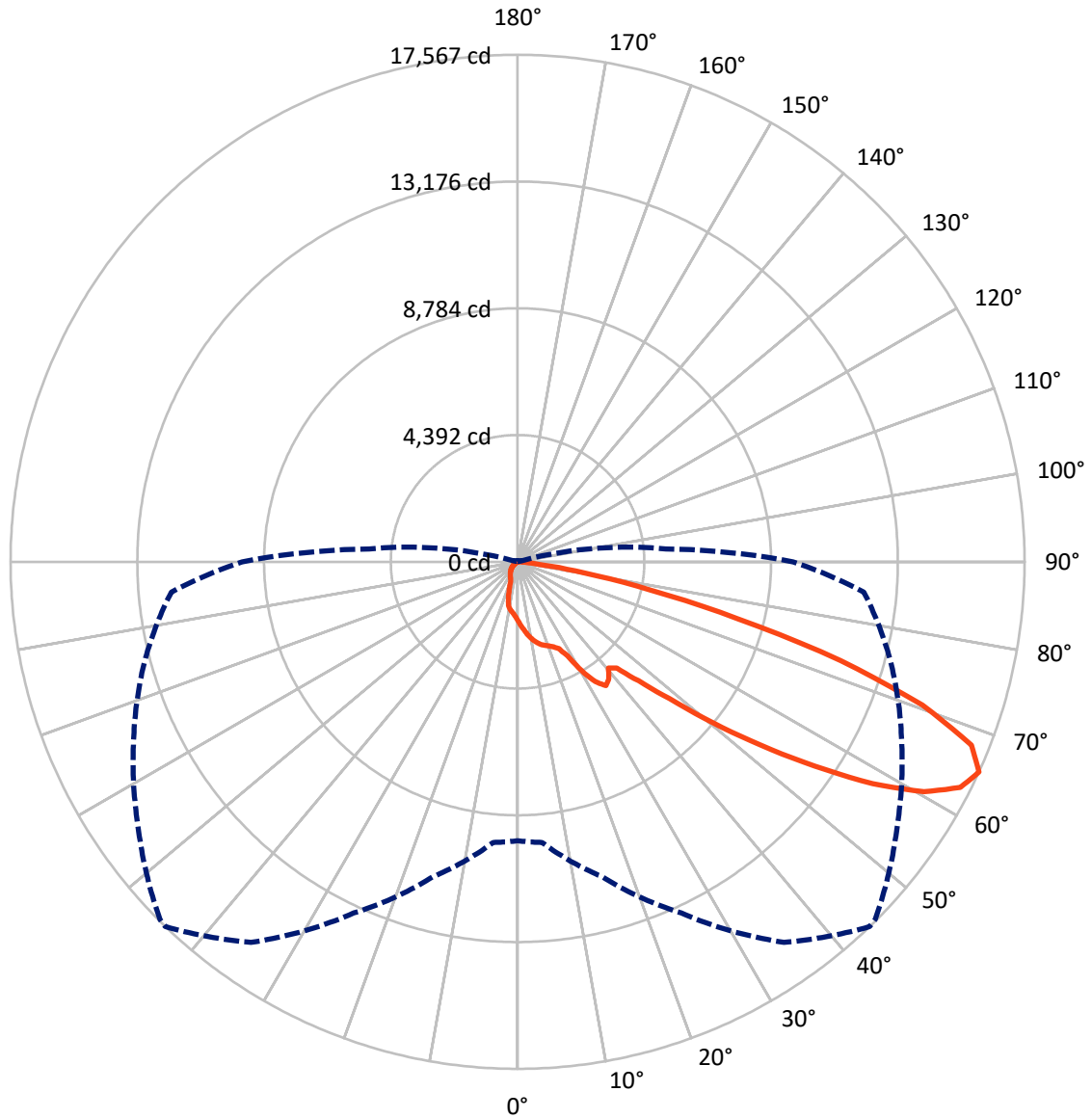
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2021.8	0.0	2021.8
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	19921.8	0.0	19921.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	21943.6	0.0	21943.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.1	0.9
10°-20°	611.3	2.8
20°-30°	1036.6	4.7
30°-40°	1723.6	7.9
40°-50°	3009.4	13.7
50°-60°	5879.3	26.8
60°-70°	6821.3	31.1
70°-80°	2484.0	11.3
80°-90°	175.0	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°	21943.6	100.0
0°-180°	21943.6	100.0

**Coefficient of Utilization**

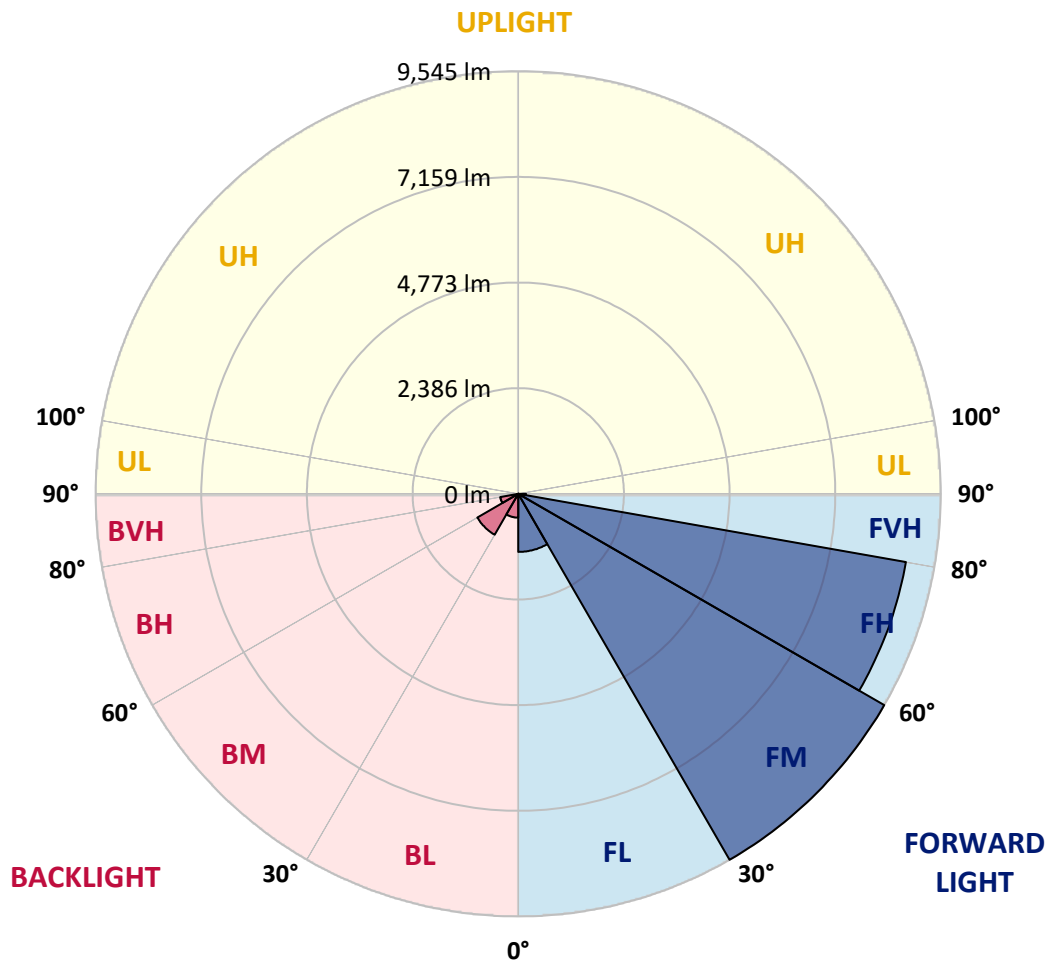


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.4	6.0			
FM (30°-60°)	9545.5	43.5			
FH (60°-80°)	8891.2	40.5			G4/12000
FVH (80°-90°)	172.6	0.8			G2/225
BL (0°-30°)	538.7	2.5	B2/1000		
BM (30°-60°)	1066.7	4.9	B2/2500		
BH (60°-80°)	414.0	1.9	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3
2.5°	2298.8	2288.8	2283.8	2256.9	2236.8	2211.7	2211.7	2179.8	2142.9	2102.7	2065.8
5°	2555.4	2538.6	2516.8	2493.3	2446.4	2379.3	2379.3	2312.3	2235.2	2166.4	2090.9
7.5°	2801.9	2786.8	2749.9	2704.6	2627.5	2557.0	2552.0	2454.8	2362.5	2258.6	2151.3
10°	3018.2	3006.4	2974.5	2887.4	2806.9	2714.7	2713.0	2604.0	2496.7	2369.3	2236.8
12.5°	3169.0	3170.8	3128.9	3045.0	2941.0	2853.9	2847.1	2739.8	2627.5	2490.0	2327.3
15°	3276.4	3276.4	3232.8	3138.9	3045.0	2967.9	2961.1	2867.3	2751.5	2602.3	2426.3
17.5°	3306.5	3316.6	3269.7	3185.9	3110.4	3043.3	3041.6	2962.9	2870.6	2726.4	2526.9
20°	3294.9	3304.9	3268.0	3202.6	3150.6	3112.0	3107.0	3075.2	2989.7	2853.9	2634.2
22.5°	3269.7	3279.8	3252.9	3214.4	3189.2	3200.9	3192.5	3219.4	3174.1	3009.8	2761.6
25°	3274.7	3284.8	3264.6	3242.9	3264.6	3336.8	3358.5	3474.2	3434.0	3207.6	2899.1
27.5°	3432.4	3452.5	3424.0	3434.0	3511.1	3678.8	3720.7	3920.2	3742.5	3459.1	3113.8
30°	3782.8	3769.4	3715.7	3764.4	4032.6	4388.1	4376.3	4344.5	4066.1	3749.2	3368.6
32.5°	4101.4	4089.6	4086.2	4295.9	4782.1	4954.8	4946.4	4637.9	4356.2	4081.2	3620.1
35°	4230.5	4185.2	4175.1	4683.2	5496.4	5268.4	5216.4	4758.6	4708.3	4443.4	3876.6
37.5°	4619.5	4587.6	4431.7	4746.9	5211.3	5135.9	5095.7	4966.6	5083.9	4763.7	4166.7
40°	5420.9	5332.1	5191.2	4882.7	4807.3	4839.1	4879.3	5233.2	5528.3	5201.3	4554.1
42.5°	6416.9	6396.8	6135.3	5560.2	4995.1	5038.7	5090.7	5789.8	6167.1	5860.3	5186.2
45°	7612.5	7641.0	7263.7	6584.6	5843.5	5880.4	5955.8	6611.5	7032.4	6884.8	6180.5
47.5°	8699.1	8677.2	8549.8	7843.9	7159.8	7077.6	7200.0	7666.1	8229.6	8253.0	7414.6
50°	9792.3	9908.0	9718.5	9441.8	8933.8	8761.1	8715.8	8943.8	9802.3	9690.0	8896.9
52.5°	11363.4	11423.7	11068.3	10997.9	11113.6	10553.5	10508.3	10563.6	11331.6	10945.9	10006.9
55°	12351.0	12315.8	12183.3	12733.3	13191.0	12491.8	12434.8	12211.8	12600.8	11832.9	11075.0
57.5°	12662.9	12713.2	13021.7	14016.0	15099.2	14505.6	14401.7	13767.9	13516.4	12659.5	12057.6
60°	12523.7	12615.9	13281.6	14760.5	16262.9	16174.0	16085.2	15020.4	14173.6	13350.4	12746.7
62.5°	11532.7	11661.8	12726.6	14628.1	16656.9	17211.9	17101.3	15801.8	14611.2	13685.7	12867.4
65°	9664.8	9760.4	11289.6	13425.8	16096.9	17567.4	17527.1	16046.6	14680.0	13378.9	12040.8
67.5°	6889.8	7215.1	8631.9	11314.7	14440.2	16960.4	17029.2	15753.2	14034.5	12052.6	9971.7
70°	4331.1	4552.4	5568.5	8100.4	11576.3	14879.6	15105.9	14410.1	12180.0	9394.9	6675.2
72.5°	2065.8	2230.1	2954.4	5127.6	8170.8	11707.1	11886.6	11829.6	9418.4	5918.9	3444.0
75°	920.6	982.6	1410.2	2617.4	5275.1	7869.0	8333.5	8410.6	5885.4	2895.8	1339.7
77.5°	469.5	471.1	660.6	1267.6	2634.2	4694.9	4787.2	5057.1	3190.9	1276.0	466.1
80°	249.9	266.6	350.5	598.6	1366.6	2312.3	2300.5	2528.5	1415.2	625.5	156.0
82.5°	112.4	124.1	197.9	313.6	667.4	877.0	945.7	1034.6	607.0	399.1	68.7
85°	33.5	40.2	97.2	157.6	241.5	253.2	283.4	365.5	343.7	283.4	35.2
87.5°	5.0	5.0	40.2	43.6	35.2	45.3	47.0	52.0	110.6	104.0	18.5
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°	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3	2042.3
2.5°	2045.7	2033.9	1992.0	1956.8	1926.6	1908.2	1886.3	1872.9	1866.2	1861.2	1862.9
5°	2054.0	2025.5	1953.4	1896.4	1852.8	1805.8	1774.0	1755.6	1747.2	1733.8	1733.8
7.5°	2100.9	2055.7	1955.1	1867.9	1792.4	1728.7	1668.3	1646.6	1631.5	1628.2	1624.8
10°	2168.0	2111.0	1973.6	1852.8	1745.5	1658.3	1572.8	1497.3	1438.7	1403.4	1398.4
12.5°	2251.9	2169.7	2002.1	1842.8	1705.3	1551.0	1324.6	1172.1	1069.7	1037.9	1043.0
15°	2329.0	2240.2	2030.6	1834.4	1631.5	1286.1	1029.6	855.1	803.2	798.1	799.8
17.5°	2421.3	2315.6	2064.1	1822.7	1428.6	982.6	764.6	717.6	727.7	744.5	742.8
20°	2516.8	2396.1	2104.3	1752.2	1140.2	739.5	675.7	680.7	695.9	711.0	714.3
22.5°	2619.1	2488.3	2151.3	1582.8	870.2	643.9	640.5	647.2	662.3	679.1	682.5
25°	2759.9	2604.0	2186.5	1361.6	659.0	595.2	602.0	613.7	627.1	645.6	648.9
27.5°	2941.0	2759.9	2204.9	1073.1	570.1	551.6	553.3	570.1	586.9	603.6	603.6
30°	3175.8	2946.0	2168.0	811.6	526.5	509.7	503.0	513.1	534.9	551.6	553.3
32.5°	3385.4	3122.1	2070.8	620.4	494.6	471.1	454.4	456.1	464.5	474.5	476.2
35°	3595.0	3293.1	1904.8	521.5	461.1	434.3	409.1	395.7	389.0	384.0	389.0
37.5°	3863.2	3506.1	1683.4	474.5	432.6	399.1	363.9	335.4	311.9	296.8	300.1
40°	4208.7	3801.2	1421.9	444.4	405.8	365.5	318.6	281.7	241.5	228.0	221.4
42.5°	4778.7	4248.9	1146.9	419.2	379.0	330.3	271.6	221.4	184.5	171.0	174.4
45°	5679.2	4814.0	883.6	392.4	352.1	291.7	228.0	174.4	144.2	137.5	140.9
47.5°	6873.0	5545.0	680.7	362.2	318.6	249.9	179.4	137.5	119.0	117.4	115.7
50°	7996.5	6225.8	568.5	328.6	278.4	207.9	147.5	115.7	104.0	102.3	102.3
52.5°	9012.6	6713.8	462.8	290.1	234.7	171.0	124.1	102.3	92.2	87.2	87.2
55°	9916.4	7032.4	375.6	243.1	184.5	135.9	107.3	92.2	80.5	73.8	72.1
57.5°	10598.8	7070.9	281.7	194.5	137.5	105.6	92.2	80.5	67.1	58.7	55.4
60°	10890.5	6737.2	207.9	147.5	102.3	83.9	73.8	65.4	50.3	41.9	40.2
62.5°	10597.1	6088.3	154.3	112.4	78.8	62.0	52.0	48.6	35.2	25.1	23.5
65°	9545.8	5151.0	122.4	85.5	58.7	45.3	33.5	31.9	21.8	11.7	10.0
67.5°	7647.7	4034.3	97.2	63.7	41.9	30.1	21.8	20.1	11.7	3.4	3.4
70°	4973.3	2578.9	78.8	47.0	26.9	20.1	13.4	10.0	6.7	1.6	0.0
72.5°	2459.8	1205.6	63.7	36.9	18.5	10.0	5.0	3.4	5.0	0.0	0.0
75°	954.1	429.2	47.0	25.1	10.0	5.0	3.4	0.0	1.6	0.0	0.0
77.5°	316.9	142.5	28.5	13.4	6.7	3.4	0.0	0.0	0.0	0.0	0.0
80°	117.4	55.4	15.1	8.4	3.4	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	47.0	21.8	10.0	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.5	13.4	6.7	5.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	10.0	6.7	5.0	3.4	1.6	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)