

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: P459230

Luminaire Tested: **GALN-SA7A-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459230
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-SA7A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 21785 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

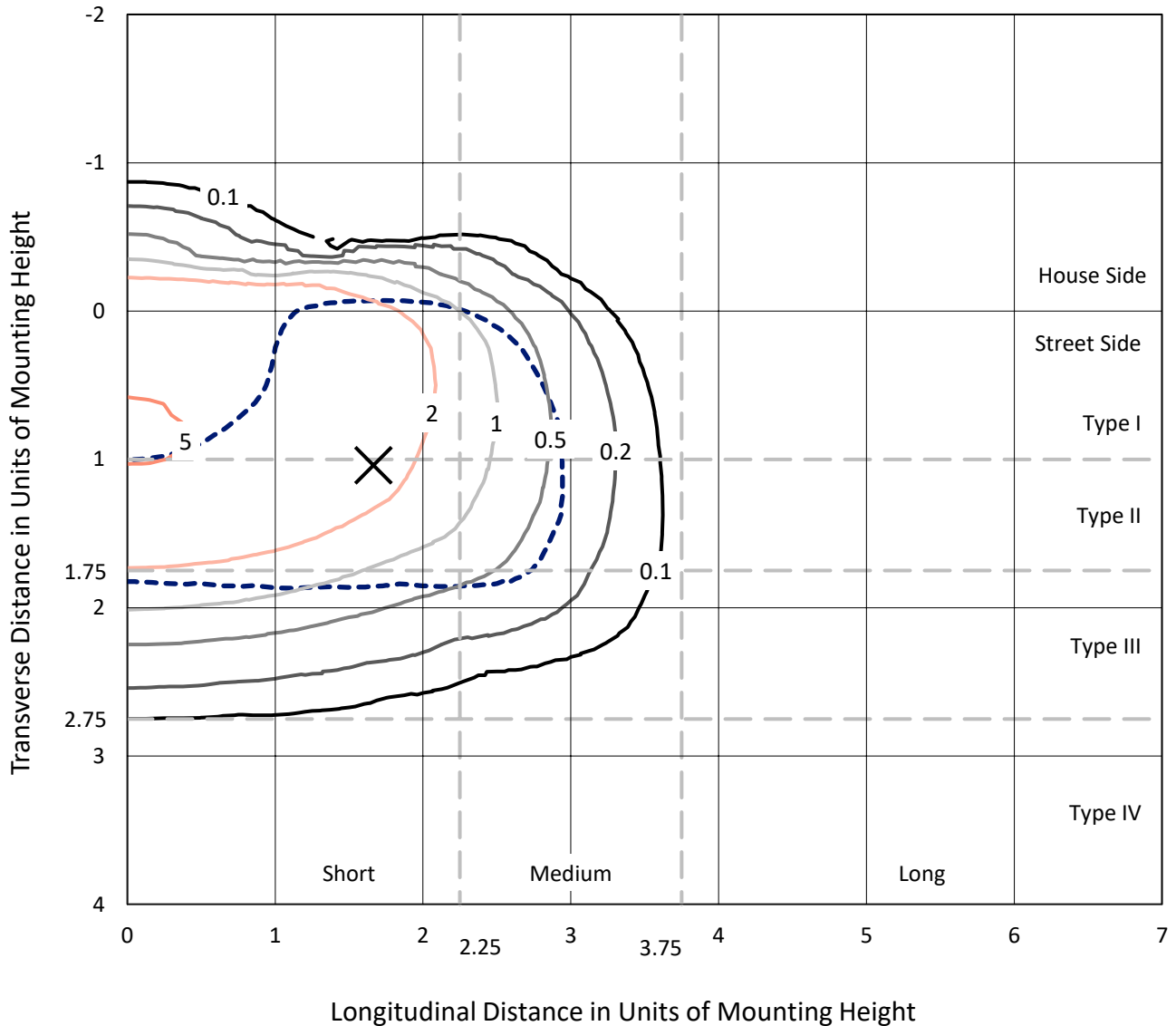
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

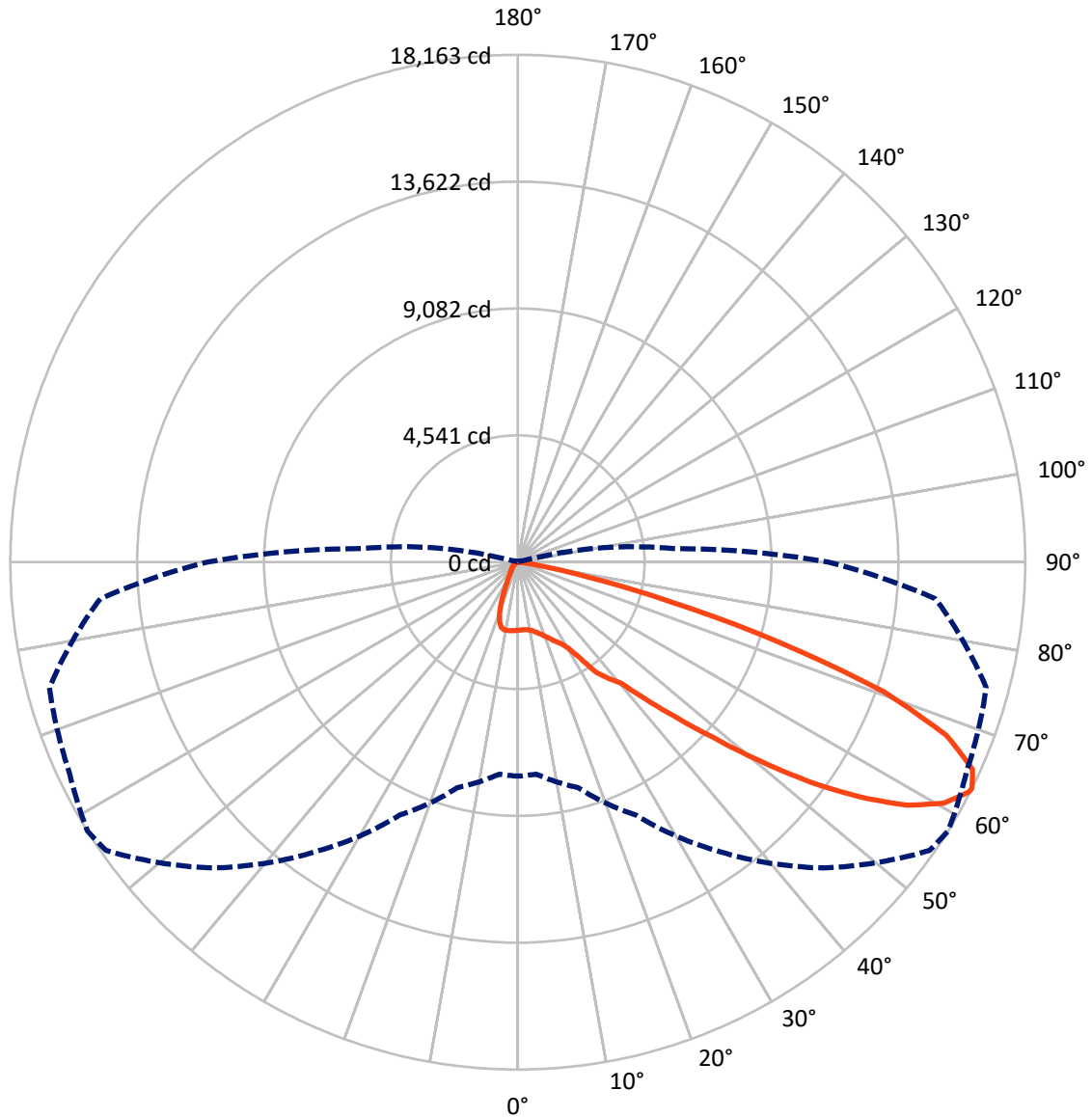
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	2255.7	0.0	2255.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19529.3	0.0	19529.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	21785.0	0.0	21785.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	1.0
10°-20°	621.9	2.9
20°-30°	1079.2	5.0
30°-40°	1983.2	9.1
40°-50°	3733.4	17.1
50°-60°	6385.7	29.3
60°-70°	6114.3	28.1
70°-80°	1559.2	7.2
80°-90°	79.7	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°	21785.0	100.0
0°-180°	21785.0	100.0



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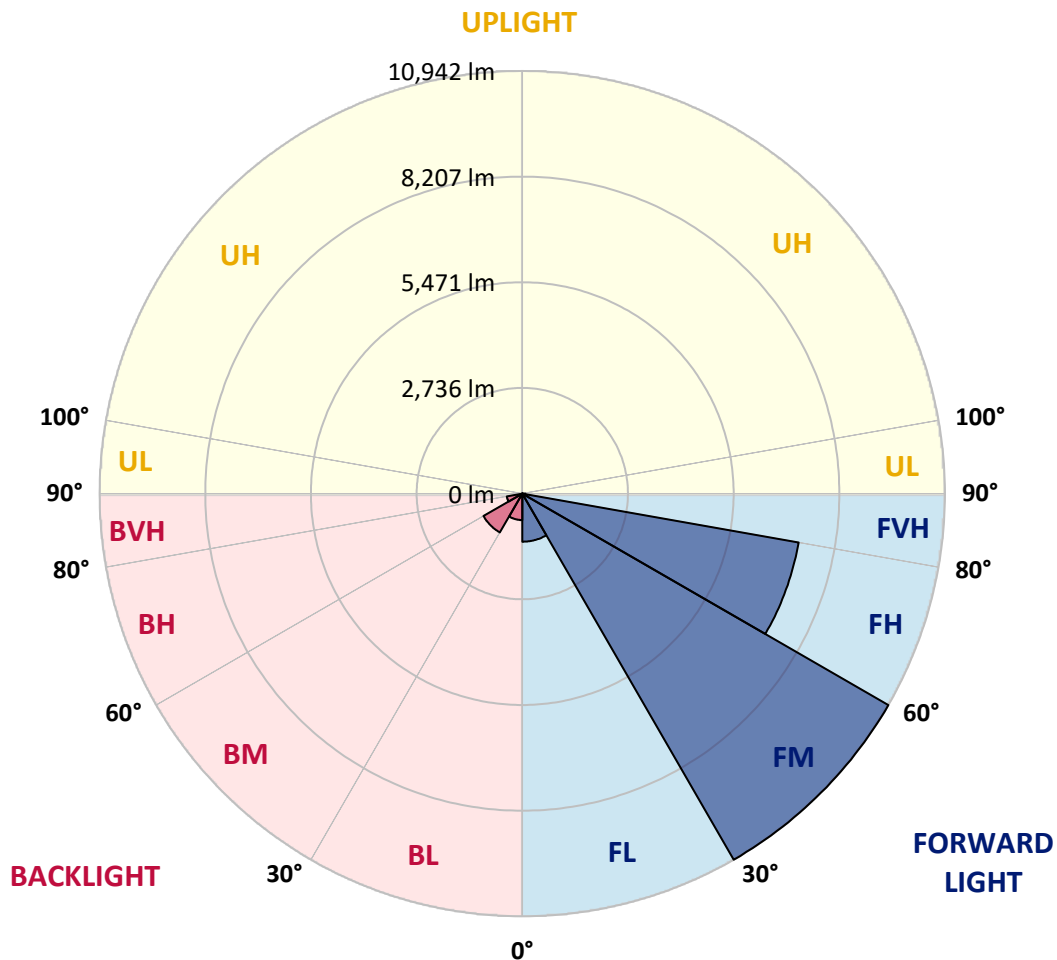
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.3	5.7			
FM (30°-60°)	10942.2	50.2			
FH (60°-80°)	7265.2	33.3			G3/7500
FVH (80°-90°)	76.6	0.4			G1/100
BL (0°-30°)	684.1	3.1	B2/1000		
BM (30°-60°)	1160.2	5.3	B2/2500		
BH (60°-80°)	408.3	1.9	B1/500		G1/500
BVH (80°-90°)	3.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9
2.5°	2378.2	2386.4	2394.6	2397.9	2409.4	2420.9	2429.1	2427.4	2440.6	2447.1	2447.1
5°	2283.1	2283.1	2304.4	2324.1	2356.9	2389.7	2420.9	2427.4	2452.0	2475.0	2483.2
7.5°	2202.7	2207.7	2224.1	2260.1	2304.4	2361.8	2424.2	2438.9	2481.6	2532.4	2553.7
10°	2165.0	2168.3	2189.6	2227.3	2283.1	2361.8	2448.8	2476.6	2542.2	2622.6	2652.1
12.5°	2156.8	2161.7	2183.1	2225.7	2289.7	2384.8	2502.9	2532.4	2627.5	2730.9	2775.1
15°	2171.6	2174.8	2196.2	2242.1	2312.6	2425.8	2575.0	2616.1	2729.2	2849.0	2906.4
17.5°	2224.1	2220.8	2235.5	2273.3	2352.0	2476.6	2662.0	2711.2	2844.0	3008.0	3045.8
20°	2447.1	2425.8	2412.7	2379.9	2411.0	2548.8	2766.9	2839.1	3003.1	3170.4	3196.7
22.5°	2927.7	2880.1	2786.6	2658.7	2560.3	2647.2	2893.2	2976.9	3188.5	3352.5	3352.5
25°	3539.5	3478.8	3385.3	3106.5	2865.4	2809.6	3035.9	3140.9	3390.2	3555.9	3501.7
27.5°	4305.4	4257.9	4075.8	3751.0	3382.0	3093.3	3201.6	3298.4	3569.0	3769.1	3655.9
30°	4928.7	4905.7	4756.5	4466.2	4059.4	3637.9	3509.9	3573.9	3806.8	4038.1	3921.6
32.5°	5455.2	5455.2	5302.6	5032.0	4651.5	4277.5	4033.1	4079.1	4302.1	4569.5	4353.0
35°	6034.1	6014.5	5891.4	5633.9	5207.5	4877.8	4777.8	4840.1	5041.8	5240.3	4707.3
37.5°	6642.6	6636.1	6508.1	6258.8	5911.1	5496.2	5261.6	5278.0	5381.4	5502.7	5122.2
40°	7303.6	7313.5	7146.2	6992.0	6664.0	6239.2	5789.8	5686.4	5783.2	6126.0	5888.2
42.5°	8084.3	8061.4	7989.2	7779.3	7515.2	7261.0	6721.4	6683.6	6768.9	7136.3	6878.8
45°	8991.3	9024.1	8899.5	8783.0	8605.9	8394.3	7943.3	7877.7	7971.2	8541.9	8176.2
47.5°	9900.0	9868.8	9949.2	9927.9	10023.0	9865.6	9467.0	9332.5	9557.2	10098.5	9560.5
50°	10592.1	10626.6	10793.9	11038.3	11446.7	11535.2	11153.1	11107.2	11207.2	11554.9	10798.8
52.5°	11041.5	11156.4	11418.8	12047.0	12783.4	13355.8	13065.5	13040.9	12999.9	13093.4	11983.0
55°	11335.1	11451.6	11794.4	12719.4	13987.3	14917.2	14932.0	14827.0	14556.4	14489.2	13090.1
57.5°	11154.7	11177.7	11666.4	12903.1	14654.8	16030.9	16513.1	16408.1	15907.9	15653.7	14067.6
60°	10026.3	10073.9	10754.5	12207.7	14364.5	16395.0	17561.2	17513.6	16965.8	16678.8	14828.7
62.5°	8026.9	8164.7	8865.1	10485.5	13014.7	15781.6	17986.0	18120.5	17694.0	17298.7	15068.1
63°	7659.5	7615.3	8355.0	9983.6	12657.1	15478.2	17992.5	18163.1	17726.8	17357.8	15002.5
65°	5670.0	5802.9	6283.4	7872.8	10533.1	14066.0	17587.4	17889.2	17605.5	17097.0	14275.9
67.5°	3183.5	3177.0	3708.4	5151.7	7372.5	11033.3	15903.0	16541.0	16481.9	15342.0	11833.7
70°	1558.2	1582.8	1800.9	2670.2	4275.9	7612.0	13214.8	13903.6	13924.9	12050.2	8182.7
72.5°	705.3	716.7	872.6	1300.6	2197.8	4052.8	9106.2	9763.9	9642.5	7679.2	4518.6
75°	372.3	396.9	480.6	654.4	1059.5	1671.3	4953.3	5589.7	5335.4	3508.3	1663.1
77.5°	275.5	283.7	326.4	416.6	567.5	651.1	2137.1	2542.2	2381.5	1269.5	551.1
80°	201.7	208.3	242.7	295.2	357.6	331.3	805.3	923.4	828.3	431.4	168.9
82.5°	123.0	124.7	177.1	219.8	224.7	185.3	265.7	285.4	298.5	242.7	91.8
85°	44.3	55.8	119.7	159.1	132.9	93.5	111.5	123.0	134.5	154.2	54.1
87.5°	4.9	6.6	57.4	77.1	37.7	34.4	41.0	45.9	49.2	57.4	26.2
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°	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9	2438.9
2.5°	2453.7	2460.2	2455.3	2447.1	2445.5	2440.6	2430.7	2430.7	2430.7	2434.0	2430.7
5°	2489.8	2494.7	2483.2	2466.8	2448.8	2425.8	2401.2	2386.4	2384.8	2381.5	2373.3
7.5°	2558.6	2565.2	2539.0	2499.6	2450.4	2394.6	2342.1	2292.9	2270.0	2251.9	2251.9
10°	2658.7	2665.3	2612.8	2542.2	2443.8	2330.7	2206.0	2092.8	2004.3	1963.3	1953.4
12.5°	2778.4	2781.7	2694.8	2571.8	2409.4	2191.3	1925.5	1677.9	1505.7	1426.9	1418.7
15°	2909.6	2886.7	2771.9	2583.2	2311.0	1904.2	1445.0	1141.5	962.8	910.3	930.0
17.5°	3042.5	2999.8	2830.9	2565.2	2089.6	1445.0	971.0	779.1	723.3	708.5	708.5
20°	3167.1	3108.1	2873.6	2486.5	1705.8	995.6	720.0	674.1	664.3	654.4	656.1
22.5°	3291.8	3201.6	2911.3	2311.0	1271.1	711.8	644.6	629.8	616.7	603.6	601.9
25°	3413.2	3288.5	2926.0	1986.2	866.0	611.8	588.8	569.1	542.9	528.1	524.9
27.5°	3539.5	3393.5	2916.2	1576.2	631.5	547.8	524.9	497.0	465.8	439.6	439.6
30°	3782.2	3593.6	2881.8	1133.3	531.4	482.2	452.7	408.4	374.0	347.7	346.1
32.5°	4113.5	3854.4	2763.7	797.1	472.4	424.8	380.5	331.3	295.2	275.5	275.5
35°	4408.7	4116.8	2542.2	587.2	424.8	369.0	314.9	267.3	239.5	226.3	221.4
37.5°	4858.1	4500.6	2237.2	477.3	378.9	319.8	264.1	219.8	196.8	187.0	187.0
40°	5532.3	4969.7	1863.2	418.2	334.6	272.3	219.8	185.3	167.3	155.8	155.8
42.5°	6368.7	5543.7	1484.3	375.6	293.6	234.5	183.7	157.5	141.1	132.9	131.2
45°	7421.7	6149.0	1143.2	336.2	260.8	200.1	155.8	132.9	116.5	111.5	113.2
47.5°	8520.6	6682.0	885.7	301.8	226.3	168.9	132.9	114.8	103.3	96.8	96.8
50°	9458.8	7049.4	672.5	262.4	200.1	142.7	116.5	103.3	93.5	90.2	88.6
52.5°	10242.8	7156.0	515.0	228.0	175.5	123.0	103.3	93.5	85.3	80.4	80.4
55°	10910.3	7062.5	403.5	191.9	147.6	106.6	91.8	83.6	73.8	68.9	67.2
57.5°	11300.7	6762.4	308.3	159.1	119.7	88.6	80.4	70.5	59.0	50.8	50.8
60°	11497.5	6326.1	236.2	131.2	91.8	70.5	65.6	52.5	41.0	34.4	32.8
62.5°	11261.3	5747.1	178.8	103.3	68.9	52.5	44.3	37.7	26.2	19.7	19.7
63°	11115.4	5579.8	172.2	98.4	64.0	49.2	41.0	34.4	23.0	18.0	16.4
65°	10132.9	4849.9	141.1	78.7	50.8	34.4	27.9	24.6	16.4	8.2	6.6
67.5°	8046.6	3710.0	111.5	59.0	36.1	24.6	16.4	14.8	4.9	0.0	0.0
70°	5440.4	2396.3	86.9	42.6	24.6	14.8	8.2	6.6	1.6	0.0	0.0
72.5°	2837.5	1228.5	67.2	31.2	14.8	9.8	4.9	1.6	0.0	0.0	0.0
75°	1003.8	418.2	49.2	19.7	9.8	4.9	1.6	0.0	0.0	0.0	0.0
77.5°	303.4	155.8	31.2	14.8	6.6	3.3	0.0	0.0	0.0	0.0	0.0
80°	106.6	57.4	18.0	9.8	4.9	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	52.5	27.9	11.5	8.2	4.9	1.6	0.0	0.0	0.0	0.0	0.0
85°	29.5	18.0	9.8	8.2	4.9	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	13.1	9.8	8.2	6.6	3.3	1.6	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)