

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: P646919

Luminaire Tested: **GALN-SA4C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15681.2 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

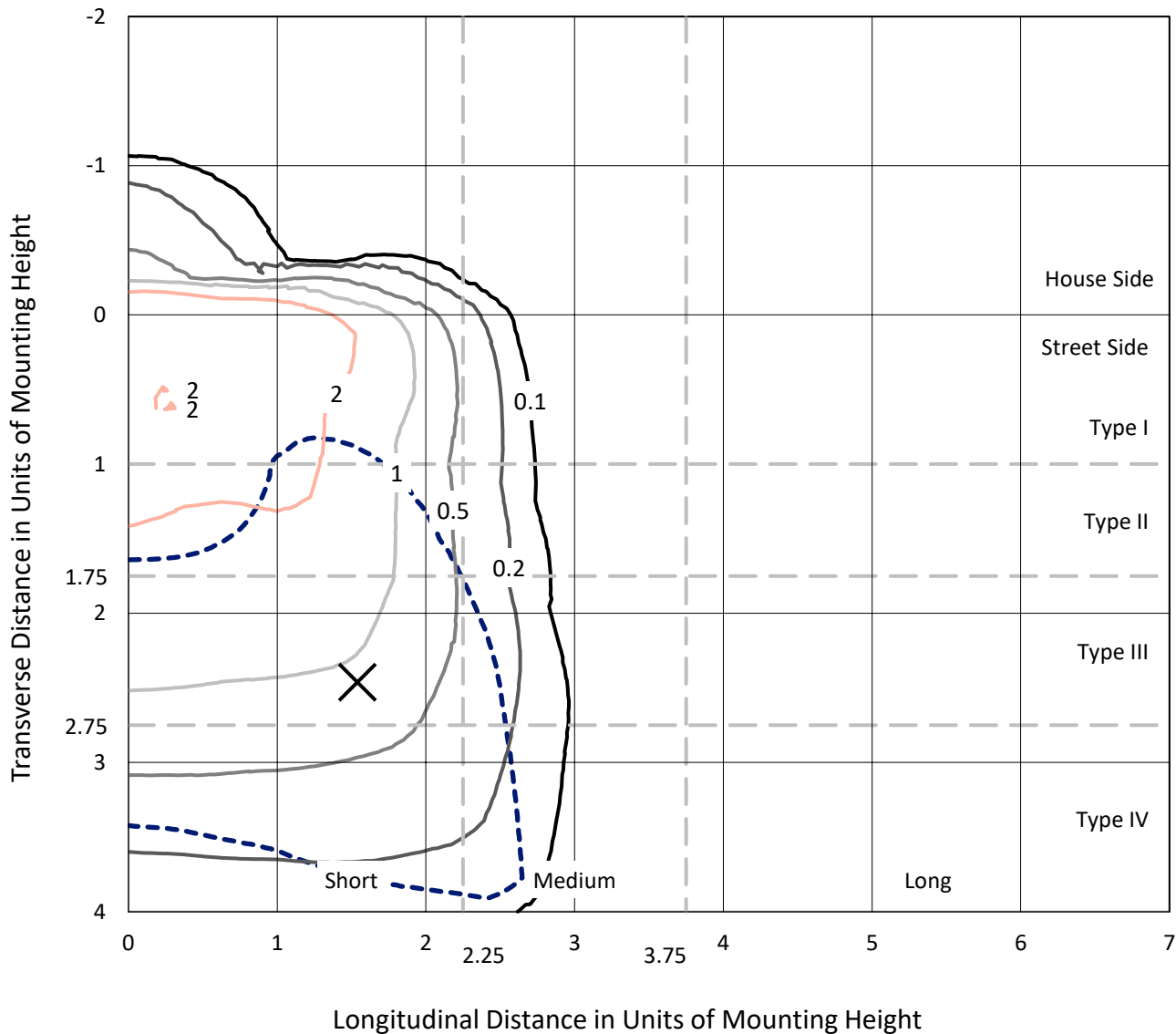
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

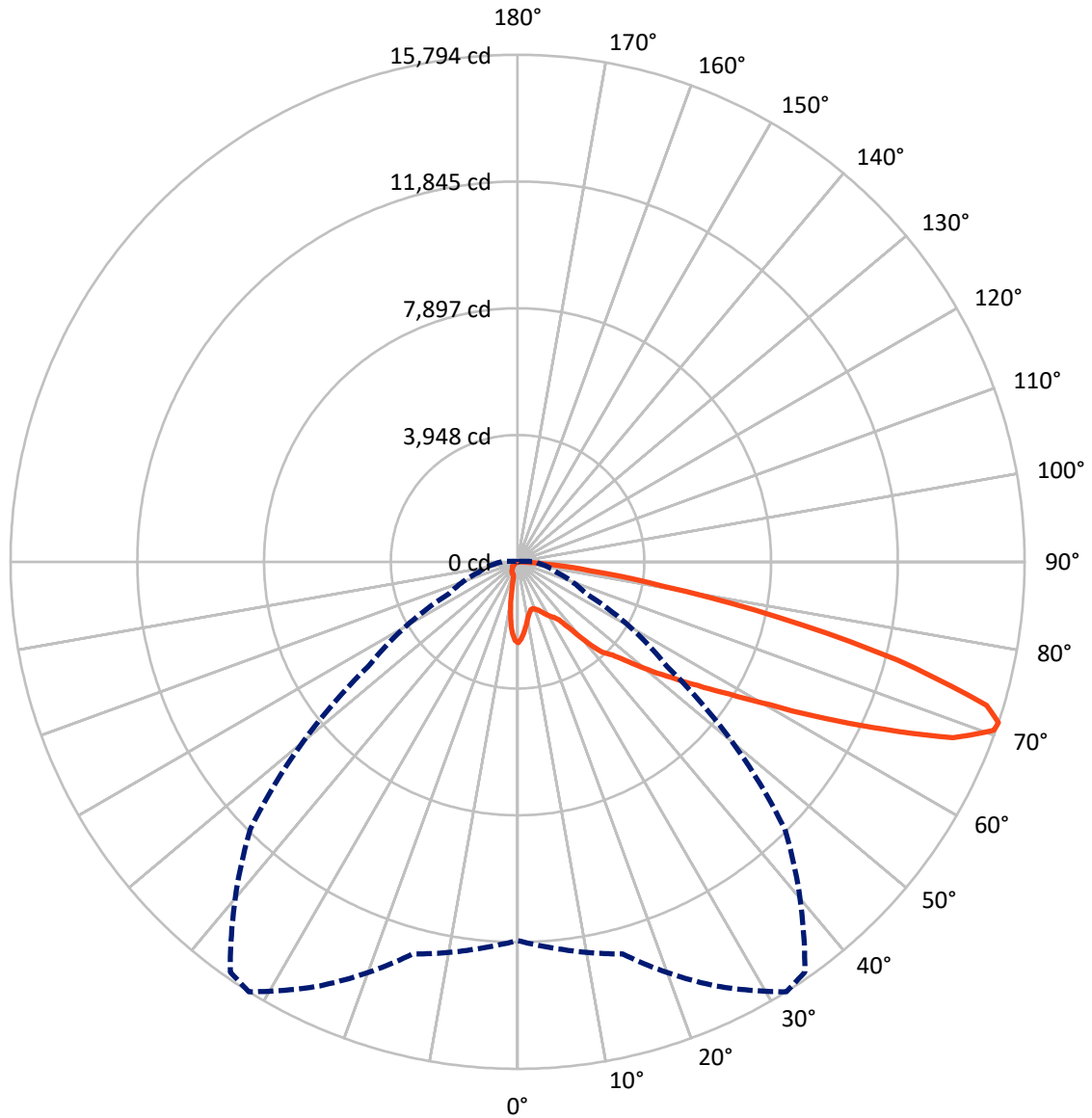
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1313.5	0.0	1313.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	14367.7	0.0	14367.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	15681.2	0.0	15681.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.1	1.3
10°-20°	445.0	2.8
20°-30°	692.3	4.4
30°-40°	1153.4	7.4
40°-50°	2145.6	13.7
50°-60°	3444.8	22.0
60°-70°	4633.4	29.5
70°-80°	2749.1	17.5
80°-90°	212.5	1.4
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°	15681.2	100.0
0°-180°	15681.2	100.0

**Coefficient of Utilization**

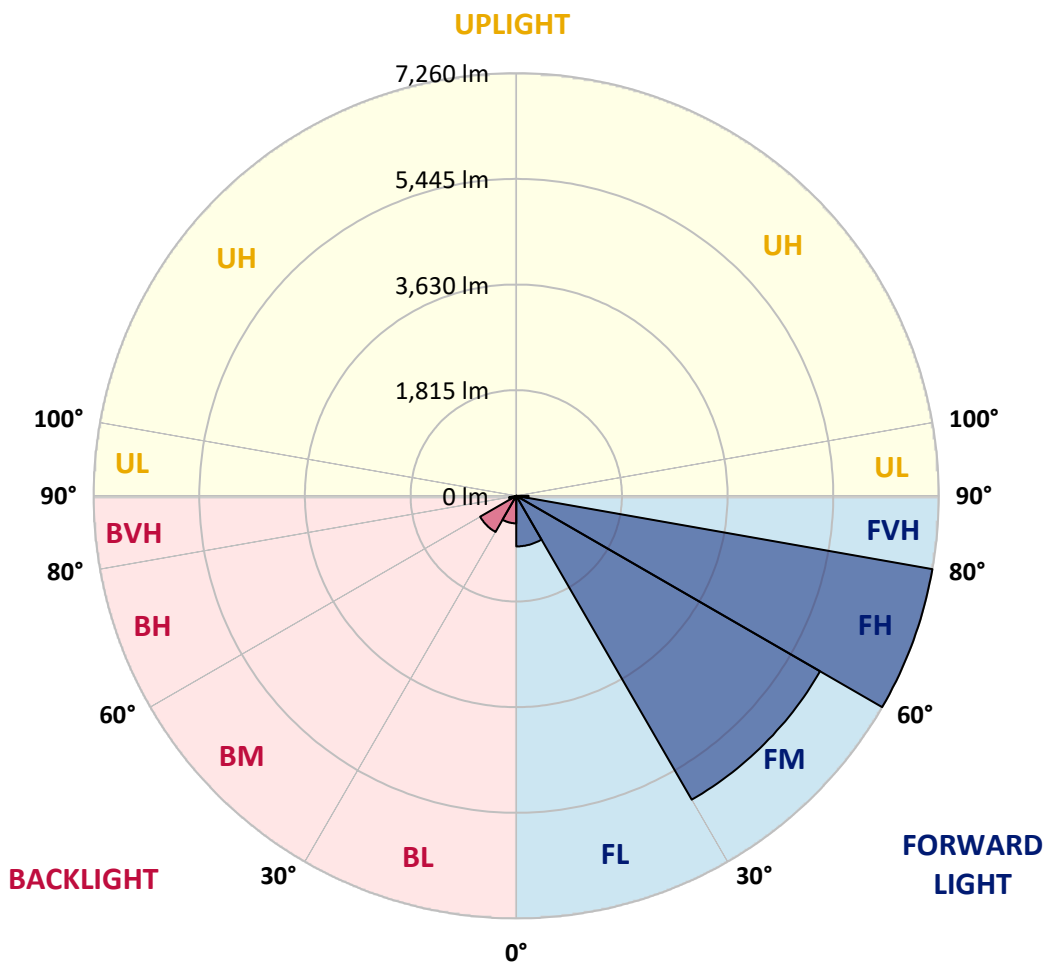


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.2	5.5			
FM (30°-60°)	6027.2	38.4			
FH (60°-80°)	7259.6	46.3			G3/7500
FVH (80°-90°)	211.7	1.3			G2/225
BL (0°-30°)	473.3	3.0	B1/500		
BM (30°-60°)	716.5	4.6	B1/1000		
BH (60°-80°)	122.9	0.8	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8
2.5°	2338.8	2362.9	2359.3	2367.7	2388.2	2396.6	2419.5	2444.8	2479.6	2503.7	2519.4
5°	2094.4	2112.5	2114.9	2157.1	2177.5	2200.4	2267.8	2341.2	2423.1	2488.1	2531.4
7.5°	1833.2	1842.9	1862.1	1917.5	1969.2	1992.1	2094.4	2222.1	2350.9	2472.4	2550.6
10°	1617.8	1628.6	1663.6	1722.5	1770.7	1800.7	1942.8	2102.9	2283.5	2464.0	2578.3
12.5°	1495.0	1501.0	1514.2	1567.3	1628.6	1661.1	1814.0	1997.0	2229.3	2467.6	2625.3
15°	1486.6	1484.2	1468.5	1490.2	1545.6	1579.2	1728.6	1924.8	2181.1	2479.6	2680.7
17.5°	1531.2	1525.1	1487.8	1487.8	1533.5	1561.2	1692.5	1886.2	2157.1	2507.3	2758.9
20°	1599.7	1590.1	1528.7	1523.9	1568.4	1597.3	1714.1	1888.6	2161.9	2559.1	2863.6
22.5°	1686.4	1675.5	1582.9	1585.3	1633.4	1662.3	1776.7	1932.0	2191.9	2622.9	2975.6
25°	1799.6	1787.5	1678.0	1673.2	1723.7	1749.0	1869.3	2009.0	2234.1	2702.4	3122.4
27.5°	1950.0	1924.8	1793.5	1786.3	1840.4	1872.9	1981.3	2112.5	2308.8	2811.8	3319.8
30°	2074.0	2046.3	1921.1	1901.8	1959.6	1984.9	2096.9	2252.1	2455.6	3003.3	3593.1
32.5°	2236.5	2195.5	2048.7	1998.1	2059.5	2092.0	2264.2	2512.2	2673.5	3205.4	3918.1
35°	2602.5	2577.2	2397.8	2220.8	2217.2	2258.2	2510.9	2774.6	2897.3	3520.8	4361.1
37.5°	3126.0	3108.0	2917.8	2680.7	2612.1	2592.8	2810.7	3063.4	3254.9	3954.2	4876.2
40°	3733.9	3691.8	3517.2	3316.2	3227.1	3170.6	3164.6	3493.2	3721.8	4542.8	5413.1
42.5°	4169.6	4092.6	3880.8	3866.3	3847.0	3788.1	3617.1	4121.5	4324.9	5175.9	5987.3
45°	4627.1	4510.3	4194.9	4140.7	4133.5	4129.9	4300.9	4865.4	4982.2	5862.1	6577.0
47.5°	4982.2	4889.4	4630.7	4606.6	4636.7	4718.5	5204.8	5655.1	5630.9	6473.5	7071.8
50°	5455.2	5385.4	5097.7	5143.4	5298.7	5432.4	6224.4	6515.7	6164.2	6955.0	7431.7
52.5°	6013.8	5884.9	5617.7	5741.7	5980.0	6202.7	7306.5	7269.2	6538.5	7317.4	7700.1
55°	6497.6	6406.1	6314.7	6443.5	6799.7	7077.9	8283.9	7833.8	6810.6	7608.6	7818.1
57.5°	7316.1	7294.5	7200.6	7331.8	7763.9	8052.8	9159.1	8271.9	6985.1	7760.3	7679.7
60°	8527.1	8492.2	8317.7	8485.0	9048.3	9502.1	9965.5	8665.5	7024.8	7701.4	7281.3
62.5°	9983.6	9864.4	9715.2	9961.9	10734.7	10934.5	10725.1	8899.0	6876.8	7231.9	6320.7
65°	11343.8	11221.0	11224.6	11744.6	12586.0	12722.0	11611.0	8864.1	6443.5	6055.9	4662.0
67.5°	12384.9	12364.5	12511.4	13526.1	14626.3	14532.4	12403.0	8341.7	5159.1	3925.3	2477.3
70°	12438.0	12477.7	12899.0	14611.8	15728.9	15579.6	12335.6	6780.5	3216.3	1805.6	976.2
71°	11797.5	12064.8	12647.4	14578.1	15793.9	15600.1	11767.5	5679.1	2359.3	1259.1	704.2
72.5°	10053.4	10194.2	11453.3	13719.9	15279.9	14865.8	10326.6	3980.7	1510.6	770.4	404.4
75°	5537.1	5883.7	7670.0	10763.6	12221.3	11857.8	6730.0	1891.0	753.6	421.3	167.3
77.5°	2636.1	2568.7	3742.3	6401.3	8286.3	8267.1	3390.9	840.2	439.3	285.2	84.3
80°	753.6	847.4	1432.4	3043.0	4600.6	4651.1	1302.4	405.7	304.5	222.7	43.3
82.5°	227.5	232.3	526.0	1345.7	2288.2	2157.1	488.7	207.0	219.1	177.0	25.3
85°	39.7	49.3	155.3	474.3	872.7	662.0	122.8	98.7	144.5	116.7	14.4
87.5°	2.4	3.6	51.8	54.2	77.0	44.6	21.7	14.4	31.3	31.3	8.5
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°	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8
2.5°	2530.2	2537.4	2532.6	2521.8	2503.7	2482.0	2453.1	2429.1	2408.6	2397.8	2411.0
5°	2545.8	2555.5	2531.4	2477.3	2395.4	2306.3	2205.2	2126.9	2065.6	2046.3	2039.1
7.5°	2569.9	2575.9	2510.9	2390.6	2217.2	2006.6	1822.4	1667.2	1546.7	1510.6	1457.7
10°	2601.2	2597.6	2474.8	2251.0	1946.4	1629.8	1344.6	1132.7	972.6	914.9	910.0
12.5°	2649.4	2630.1	2429.1	2060.8	1623.8	1209.7	857.1	670.5	569.3	535.7	528.4
15°	2709.6	2663.8	2356.8	1838.1	1243.4	781.2	528.4	471.8	458.6	456.2	453.8
17.5°	2780.6	2708.3	2261.8	1564.8	873.9	506.8	441.8	440.6	441.8	439.3	438.2
20°	2876.9	2755.3	2148.6	1241.1	577.8	427.3	421.3	421.3	422.5	421.3	421.3
22.5°	2979.2	2810.7	2009.0	947.4	435.7	405.7	404.4	406.8	409.3	408.0	408.0
25°	3105.5	2882.8	1824.9	648.8	390.0	387.6	388.8	393.6	398.4	399.6	398.4
27.5°	3288.5	2972.0	1627.4	446.5	357.5	359.9	371.9	384.0	391.2	392.4	392.4
30°	3494.4	3070.7	1369.9	362.3	331.1	331.1	345.5	368.3	384.0	386.4	387.6
32.5°	3759.2	3185.0	1084.5	326.2	305.8	303.3	316.6	344.3	373.2	381.6	381.6
35°	4086.6	3319.8	806.5	303.3	287.7	281.6	288.9	311.8	349.1	373.2	375.5
37.5°	4470.6	3447.4	589.8	282.9	270.8	262.4	267.2	285.2	315.4	351.5	361.1
40°	4825.7	3560.5	440.6	266.0	254.0	248.0	251.6	260.0	285.2	319.0	325.0
42.5°	5213.3	3648.5	350.3	248.0	237.1	234.7	234.7	238.3	255.2	274.4	275.6
45°	5599.6	3679.7	293.7	226.3	219.1	221.5	220.3	217.9	225.1	222.7	222.7
47.5°	5875.3	3642.4	243.1	205.9	205.9	209.5	203.4	195.0	191.4	177.0	178.1
50°	6064.3	3506.4	199.8	181.7	191.4	196.2	184.2	170.9	157.7	142.0	138.4
52.5°	6142.6	3264.5	163.7	150.5	169.8	175.7	161.3	145.6	125.2	112.0	108.4
55°	6092.0	2965.9	136.0	122.8	143.2	150.5	136.0	118.0	95.1	80.6	78.2
57.5°	5869.3	2609.7	115.6	97.5	114.3	119.2	109.5	90.3	67.4	52.9	52.9
60°	5484.1	2241.3	93.9	77.0	85.4	92.7	83.1	65.0	45.7	32.5	30.1
62.5°	4702.9	1820.0	75.9	60.2	60.2	66.2	57.8	47.0	28.9	16.8	15.7
65°	3395.6	1248.3	60.2	44.6	43.3	43.3	36.1	31.3	16.8	7.2	4.8
67.5°	1845.3	704.2	48.2	33.7	30.1	28.9	22.9	18.1	7.2	1.2	0.0
70°	725.8	270.8	37.3	22.9	19.3	18.1	12.1	8.5	4.8	0.0	0.0
71°	492.4	186.6	32.5	19.3	15.7	13.2	9.6	7.2	3.6	0.0	0.0
72.5°	281.6	115.6	25.3	14.4	12.1	9.6	7.2	4.8	3.6	0.0	0.0
75°	122.8	59.0	15.7	10.8	8.5	6.0	4.8	3.6	1.2	0.0	0.0
77.5°	62.6	32.5	10.8	8.5	4.8	3.6	2.4	1.2	0.0	0.0	0.0
80°	34.9	16.8	7.2	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	19.3	9.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.1	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	2.4	0.0	0.0	0.0	0.0	1.2	1.2	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)