

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: P650816

Luminaire Tested: **GALN-SA3C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-840-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10540.2 lumens  
Efficiency: N/A  
Efficacy: 65.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

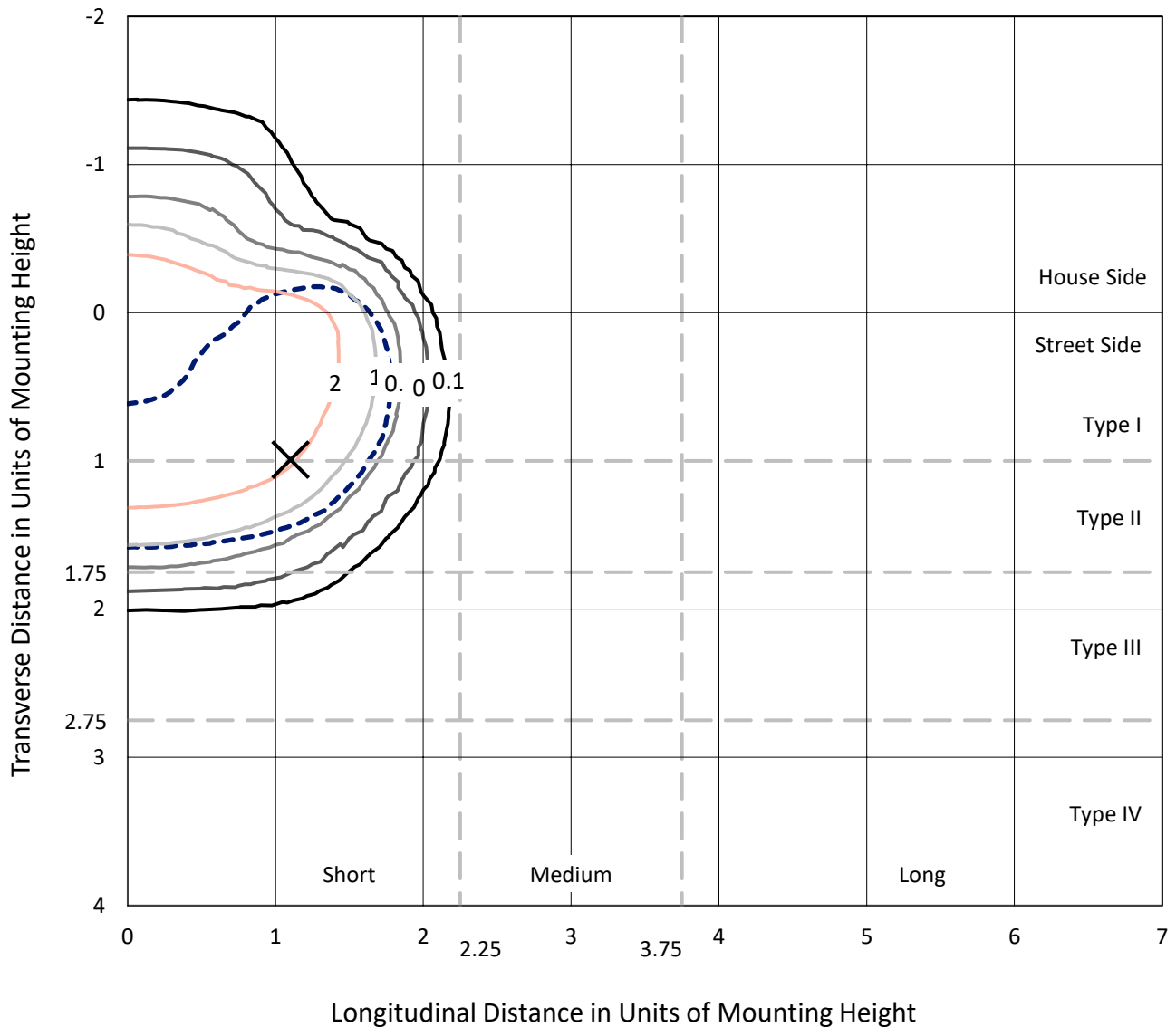
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

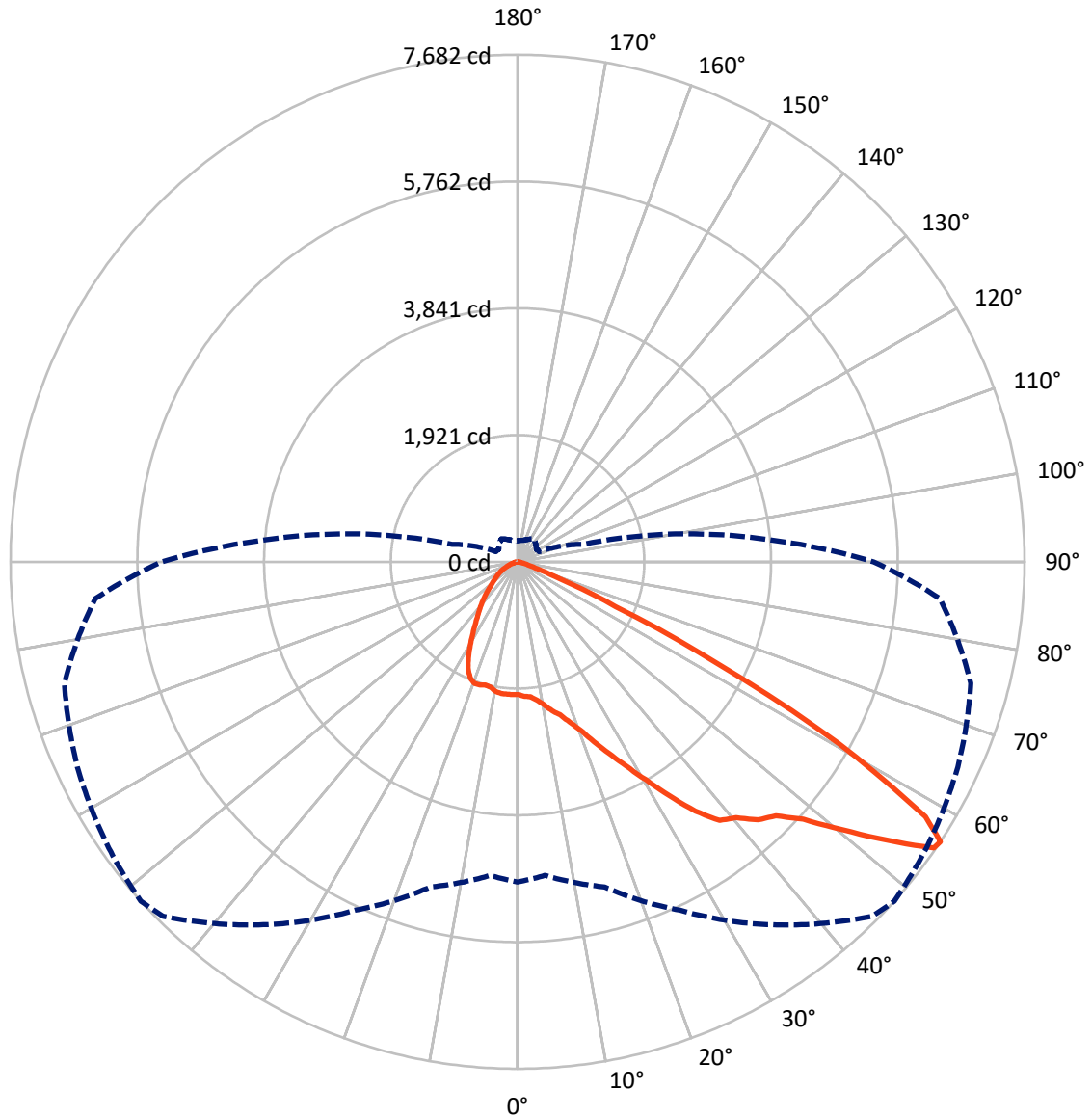
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2292.3	0.0	2292.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	8247.9	0.0	8247.9
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	10540.2	0.0	10540.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.1	1.9
10°-20°	626.7	5.9
20°-30°	1136.8	10.8
30°-40°	1785.6	16.9
40°-50°	2604.9	24.7
50°-60°	3138.4	29.8
60°-70°	918.9	8.7
70°-80°	116.6	1.1
80°-90°	16.3	0.2
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°	10540.2	100.0
0°-180°	10540.2	100.0

**Coefficient of Utilization**

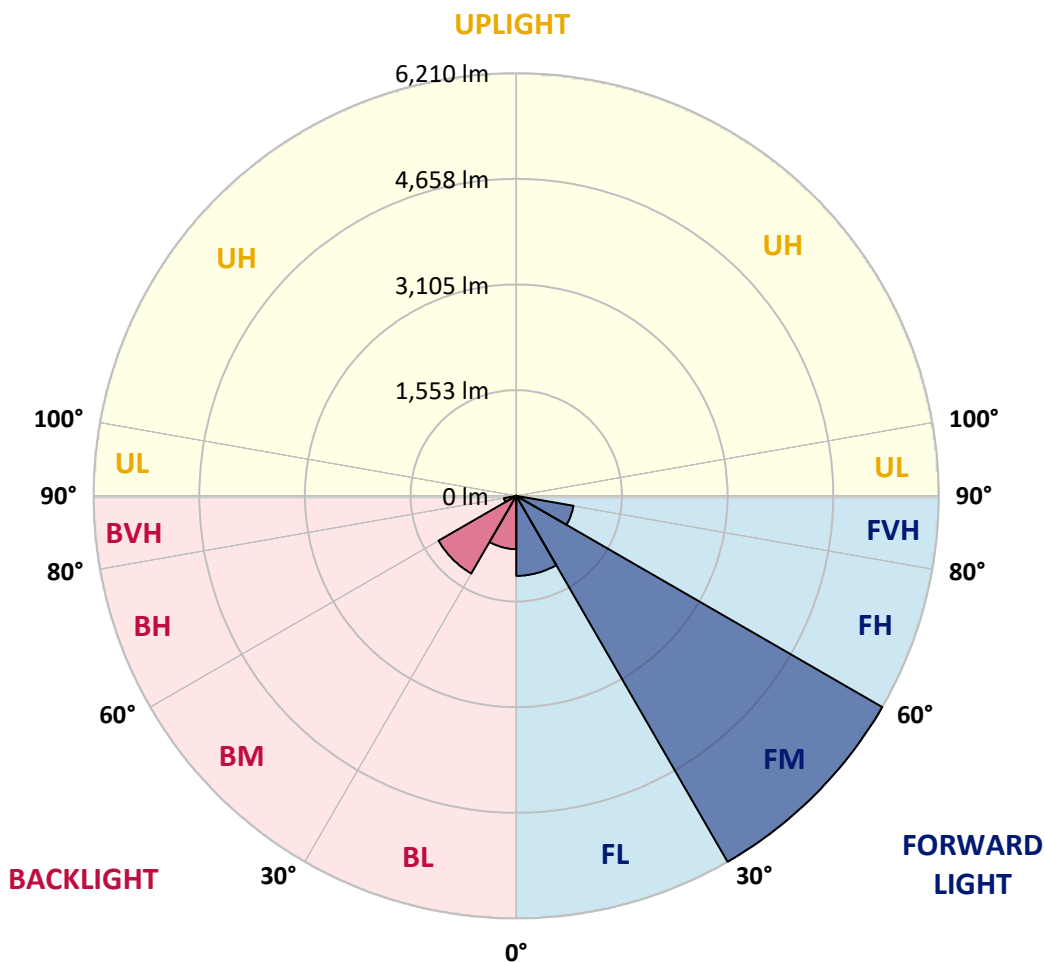


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.1	11.2			
FM (30°-60°)	6210.3	58.9			
FH (60°-80°)	853.3	8.1			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	783.5	7.4	B2/1000		
BM (30°-60°)	1318.5	12.5	B2/2500		
BH (60°-80°)	182.1	1.7	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2
2.5°	2049.7	2040.1	2040.1	2024.7	2041.9	2034.3	2040.1	2020.8	2040.1	2011.3	2034.3
5°	2059.3	2061.2	2053.5	2063.1	2063.1	2074.6	2055.4	2072.7	2082.3	2061.2	2051.5
7.5°	2109.1	2113.0	2111.1	2103.4	2118.7	2116.8	2114.9	2101.5	2105.3	2097.6	2086.1
10°	2207.0	2205.1	2214.7	2195.5	2184.0	2197.4	2201.2	2180.1	2164.8	2159.0	2122.6
12.5°	2349.1	2326.0	2312.6	2293.4	2299.1	2280.0	2314.5	2278.0	2270.4	2235.8	2199.4
15°	2464.2	2460.3	2462.3	2431.6	2397.0	2404.7	2404.7	2385.5	2374.0	2331.8	2280.0
17.5°	2700.3	2619.6	2637.0	2598.5	2569.8	2567.8	2550.6	2554.4	2523.7	2435.4	2356.7
20°	2884.5	2850.0	2823.1	2757.8	2713.7	2727.1	2719.5	2700.3	2690.7	2575.5	2464.2
22.5°	3049.6	3061.1	3016.9	2999.7	2938.2	2944.0	2959.3	2942.1	2869.2	2750.2	2585.1
25°	3281.8	3268.3	3208.8	3187.7	3130.1	3151.2	3210.8	3197.3	3151.2	2936.3	2679.2
27.5°	3556.2	3510.2	3521.7	3425.7	3370.1	3429.5	3500.6	3567.7	3437.2	3155.1	2790.4
30°	3750.0	3702.1	3698.2	3694.3	3681.0	3750.0	3832.5	3894.0	3788.4	3373.8	2974.7
32.5°	3846.0	3857.5	3890.1	3878.6	3995.7	4137.7	4224.1	4312.3	4179.9	3730.8	3218.4
35°	4101.2	4028.3	4101.2	4108.9	4229.8	4531.1	4640.6	4851.6	4819.0	4235.6	3515.9
37.5°	4250.9	4245.2	4254.8	4327.7	4444.8	4817.1	4972.5	5135.7	5074.3	4538.8	3886.3
40°	4498.5	4513.8	4512.0	4567.6	4696.1	5032.0	5095.4	5227.7	5233.5	4959.1	4431.3
42.5°	4895.8	4834.3	4794.0	4851.6	5032.0	5218.2	5344.8	5318.0	5508.0	5469.6	5131.8
45°	5252.7	5289.2	5229.7	5325.6	5390.9	5490.7	5486.9	5544.5	5786.2	5968.6	5659.6
47.5°	5586.7	5609.7	5638.5	5703.7	5845.7	5861.1	5828.5	5803.5	6137.4	6325.5	6068.4
50°	5786.2	5807.4	5941.7	6058.7	6323.6	6358.1	6377.4	6314.0	6540.5	6561.6	6454.1
52.5°	5732.5	5755.6	5943.6	6329.4	6751.5	7068.3	7010.7	6903.2	6889.7	6972.3	6811.1
55°	5256.6	5235.5	5494.5	6095.2	6885.9	7646.0	7653.6	7540.3	7323.5	7267.8	6757.4
56°	4851.6	4769.1	5099.2	5824.6	6713.2	7596.0	7682.4	7561.4	7358.1	7108.6	6425.3
57.5°	3974.6	4053.3	4381.4	4982.1	6116.3	7237.1	7287.0	7258.3	7104.7	6686.4	5653.8
60°	2191.6	2329.8	2619.6	3354.7	4354.5	5554.0	5594.3	5828.5	5857.2	5120.3	3890.1
62.5°	930.8	915.4	1216.8	1757.9	2479.5	3352.7	3427.6	3667.5	3711.7	2951.7	1951.8
65°	378.1	399.2	550.8	884.7	1310.8	1527.7	1633.2	1711.9	1857.8	1218.7	719.6
67.5°	249.5	247.6	324.4	504.8	706.3	681.3	681.3	719.6	666.0	497.0	310.9
70°	178.5	184.3	232.2	349.3	439.5	326.2	312.9	299.4	339.7	328.2	251.4
72.5°	117.1	124.7	155.4	209.2	228.4	178.5	178.5	215.0	280.2	264.8	205.4
75°	76.8	78.7	96.0	120.9	113.2	92.1	101.7	143.9	203.4	195.8	145.8
77.5°	51.8	53.7	65.3	78.7	63.3	51.8	55.7	72.9	99.8	99.8	76.8
80°	19.2	21.1	26.8	25.0	28.8	36.5	40.3	49.9	59.5	59.5	51.8
82.5°	0.0	1.9	5.7	13.5	21.1	28.8	32.6	38.3	44.2	49.9	47.9
85°	0.0	1.9	5.7	9.6	15.4	17.2	19.2	13.5	11.5	11.5	9.6
87.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.9	1.9	1.9
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°	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2
2.5°	2013.2	2011.3	2011.3	2005.5	2017.1	2011.3	2015.1	2013.2	1988.2	2007.5	1994.0
5°	2034.3	2047.8	2026.6	2022.8	2007.5	2013.2	2013.2	1994.0	2011.3	2009.3	2005.5
7.5°	2088.0	2065.0	2041.9	2019.0	2015.1	2009.3	1988.2	1980.6	1994.0	1978.6	2001.7
10°	2111.1	2114.9	2080.4	2049.7	2020.8	1980.6	1951.8	1934.5	1913.4	1936.4	1949.9
12.5°	2216.6	2178.3	2118.7	2070.8	1972.9	1932.6	1903.8	1896.1	1932.6	1940.3	1926.8
15°	2253.1	2247.3	2170.5	2063.1	1961.4	1913.4	1919.2	1903.8	1907.6	1888.5	1892.2
17.5°	2328.0	2262.7	2172.5	2038.2	1959.4	1947.9	1913.4	1852.0	1817.4	1802.1	1815.6
20°	2410.5	2347.1	2216.6	2047.8	1976.8	1946.0	1832.8	1757.9	1687.0	1648.5	1650.5
22.5°	2483.4	2404.7	2197.4	2051.5	1992.1	1865.4	1729.2	1581.4	1493.1	1433.6	1435.5
25°	2571.7	2460.3	2205.1	2059.3	1951.8	1736.8	1541.0	1397.2	1291.6	1251.3	1264.7
27.5°	2621.6	2494.9	2247.3	2076.5	1846.2	1554.5	1343.4	1209.1	1147.6	1128.5	1126.5
30°	2771.3	2571.7	2299.1	2041.9	1669.6	1358.7	1163.0	1080.5	1021.0	1003.7	1007.5
32.5°	2993.9	2711.8	2366.3	1951.8	1489.2	1184.1	1046.0	984.6	928.9	896.3	892.4
35°	3180.1	2951.7	2437.3	1811.7	1280.1	1049.7	963.4	886.7	802.2	765.7	756.1
37.5°	3535.1	3222.3	2422.0	1600.6	1080.5	950.0	875.1	781.1	708.2	658.3	652.5
40°	4007.2	3538.9	2347.1	1343.4	932.7	861.7	781.1	690.9	600.7	558.5	554.6
42.5°	4581.0	3926.6	2210.9	1082.4	784.9	773.4	700.5	596.9	516.3	485.5	487.4
45°	5047.3	4258.6	2072.7	869.3	675.6	687.1	623.7	525.9	470.2	445.2	445.2
47.5°	5461.9	4483.1	1923.0	717.8	573.8	600.7	545.1	487.4	439.5	420.3	416.5
50°	5861.1	4711.5	1773.3	581.5	489.4	516.3	510.5	464.4	426.1	403.0	404.9
52.5°	6110.6	4747.9	1583.3	475.9	428.0	458.7	477.9	435.6	393.4	380.0	376.2
55°	5805.4	4277.8	1228.3	391.5	362.7	403.0	439.5	391.5	358.9	335.8	334.0
56°	5394.8	3824.9	1026.8	360.8	343.5	387.7	426.1	374.2	337.7	324.4	314.7
57.5°	4567.6	3130.1	758.1	320.5	318.6	360.8	404.9	357.0	314.7	303.3	303.3
60°	2848.0	1761.8	458.7	268.7	276.4	320.5	364.7	318.6	280.2	280.2	285.9
62.5°	1297.3	733.1	278.3	228.4	238.0	276.4	324.4	287.9	266.8	287.9	291.7
65°	441.4	316.6	201.5	182.3	188.0	228.4	278.3	291.7	289.8	303.3	310.9
67.5°	247.6	203.4	168.9	151.6	147.8	168.9	228.4	291.7	280.2	274.4	278.3
70°	209.2	172.7	149.7	134.3	128.6	136.2	176.5	220.7	197.6	191.9	188.0
72.5°	168.9	143.9	130.5	120.9	103.6	88.3	80.6	84.4	94.0	99.8	109.4
75°	119.0	109.4	109.4	97.9	74.8	55.7	44.2	36.5	25.0	17.2	19.2
77.5°	67.2	67.2	69.1	59.5	47.9	36.5	26.8	19.2	9.6	3.9	1.9
80°	46.1	49.9	53.7	47.9	40.3	32.6	23.0	13.5	5.7	0.0	0.0
82.5°	46.1	51.8	55.7	47.9	40.3	30.7	23.0	13.5	5.7	1.9	0.0
85°	9.6	11.5	13.5	15.4	23.0	23.0	17.2	11.5	5.7	1.9	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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)