

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: P454880

Luminaire Tested: **GALN-SA6A-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454880  
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-SA6A-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 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: 18132 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

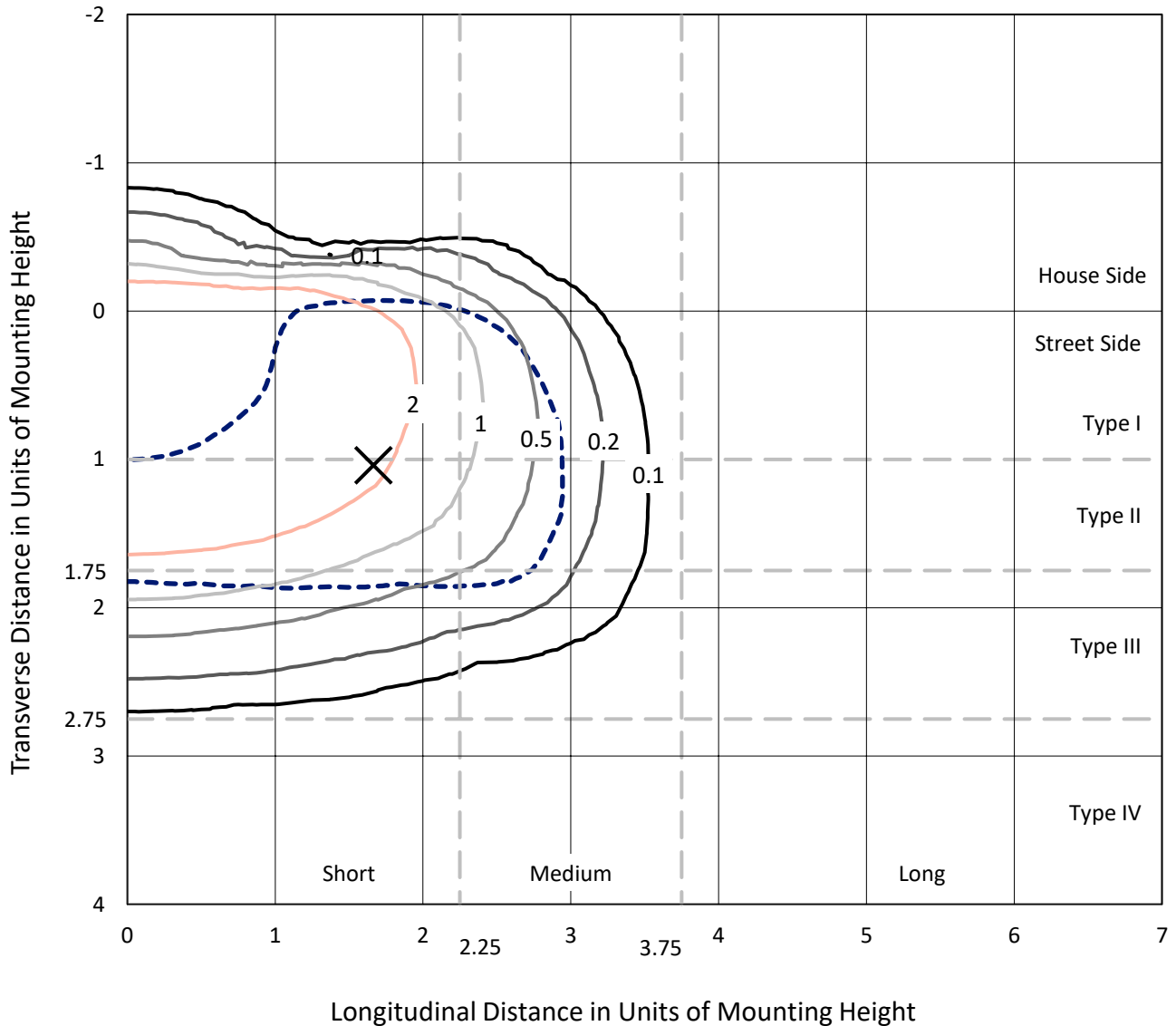
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

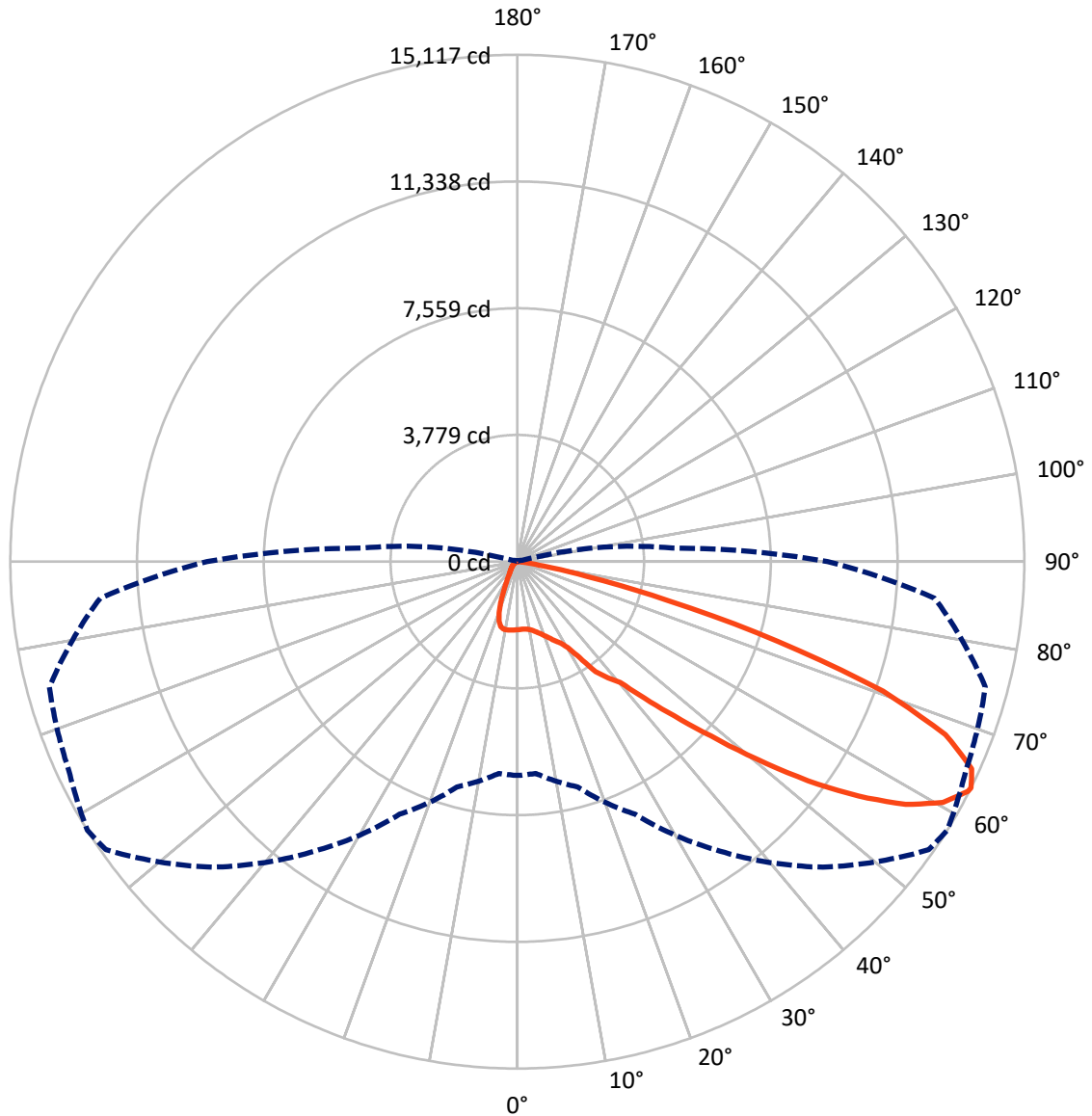
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	1877.5	0.0	1877.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	16254.5	0.0	16254.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	18132.0	0.0	18132.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.0	1.0
10°-20°	517.6	2.9
20°-30°	898.3	5.0
30°-40°	1650.7	9.1
40°-50°	3107.4	17.1
50°-60°	5314.9	29.3
60°-70°	5089.1	28.1
70°-80°	1297.7	7.2
80°-90°	66.4	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°	18132.0	100.0
0°-180°	18132.0	100.0

**Coefficient of Utilization**



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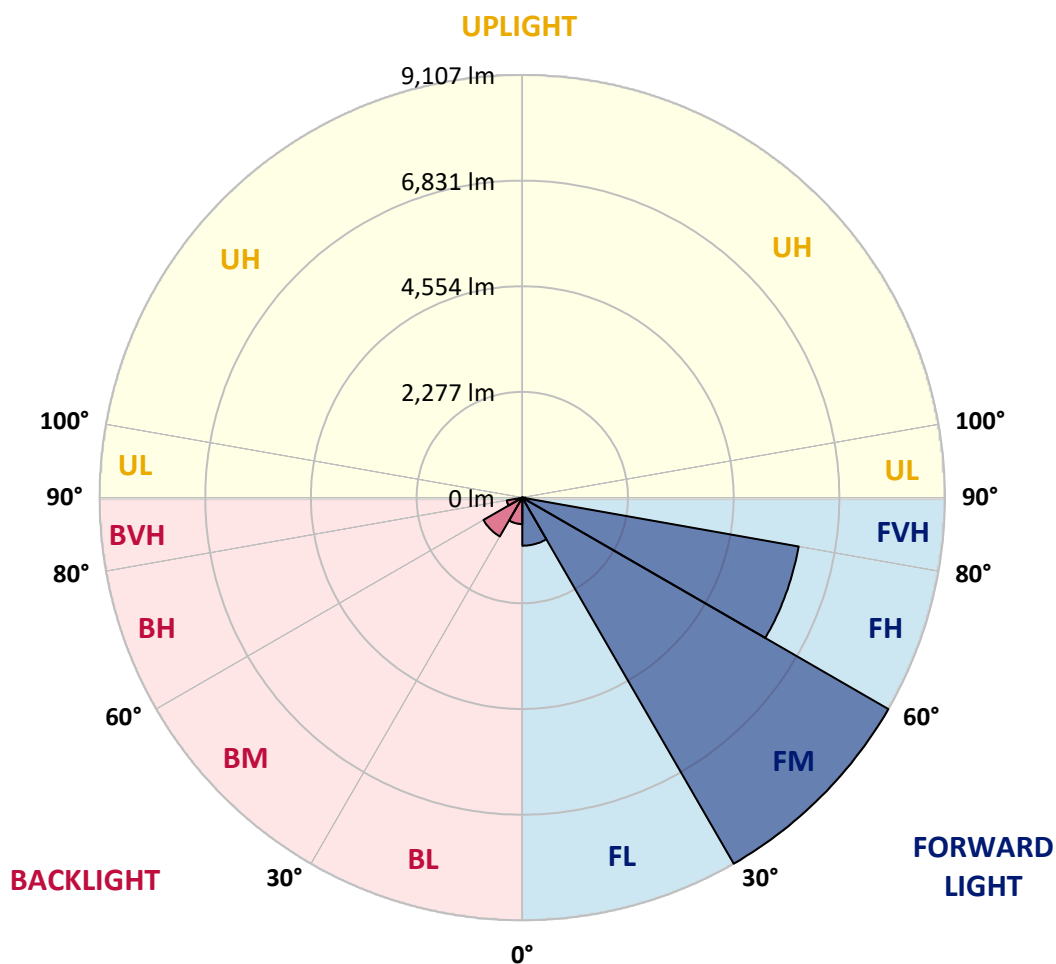
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.5	5.7			
FM (30°-60°)	9107.3	50.2			
FH (60°-80°)	6046.9	33.3			G3/7500
FVH (80°-90°)	63.8	0.4			G1/100
BL (0°-30°)	569.4	3.1	B2/1000		
BM (30°-60°)	965.7	5.3	B1/1000		
BH (60°-80°)	339.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	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°	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	1979.4	1986.3	1993.1	1995.8	2005.4	2014.9	2021.8	2020.4	2031.3	2036.8	2036.8
5°	1900.3	1900.3	1918.0	1934.4	1961.7	1989.0	2014.9	2020.4	2040.9	2060.0	2066.8
7.5°	1833.4	1837.5	1851.1	1881.1	1918.0	1965.8	2017.7	2029.9	2065.4	2107.8	2125.5
10°	1802.0	1804.7	1822.4	1853.8	1900.3	1965.8	2038.1	2061.3	2116.0	2182.8	2207.4
12.5°	1795.1	1799.2	1817.0	1852.5	1905.7	1984.9	2083.2	2107.8	2186.9	2272.9	2309.8
15°	1807.4	1810.2	1827.9	1866.1	1924.8	2019.0	2143.3	2177.4	2271.6	2371.2	2419.0
17.5°	1851.1	1848.4	1860.7	1892.1	1957.6	2061.3	2215.6	2256.6	2367.1	2503.6	2535.0
20°	2036.8	2019.0	2008.1	1980.8	2006.7	2121.4	2303.0	2363.0	2499.6	2638.8	2660.6
22.5°	2436.8	2397.2	2319.4	2212.9	2131.0	2203.3	2408.1	2477.7	2653.8	2790.3	2790.3
25°	2945.9	2895.4	2817.6	2585.6	2384.9	2338.5	2526.9	2614.2	2821.7	2959.6	2914.6
27.5°	3583.5	3543.9	3392.3	3122.1	2814.9	2574.6	2664.7	2745.3	2970.5	3137.1	3042.9
30°	4102.2	4083.1	3958.9	3717.2	3378.7	3027.9	2921.4	2974.6	3168.5	3360.9	3264.0
32.5°	4540.4	4540.4	4413.5	4188.2	3871.5	3560.3	3356.9	3395.1	3580.7	3803.3	3623.1
35°	5022.3	5005.9	4903.5	4689.2	4334.3	4059.9	3976.6	4028.5	4196.4	4361.6	3917.9
37.5°	5528.8	5523.3	5416.8	5209.3	4919.9	4574.5	4379.3	4393.0	4479.0	4580.0	4263.3
40°	6078.9	6087.1	5947.9	5819.5	5546.5	5193.0	4818.9	4732.9	4813.4	5098.8	4900.8
42.5°	6728.7	6709.6	6649.5	6474.8	6255.0	6043.4	5594.3	5562.9	5633.9	5939.7	5725.4
45°	7483.6	7510.9	7407.2	7310.3	7162.8	6986.7	6611.3	6556.7	6634.5	7109.6	6805.2
47.5°	8239.9	8214.0	8280.9	8263.1	8342.3	8211.3	7879.5	7767.6	7954.6	8405.1	7957.3
50°	8816.0	8844.7	8983.9	9187.3	9527.2	9601.0	9282.9	9244.7	9327.9	9617.3	8988.0
52.5°	9190.1	9285.6	9504.0	10026.9	10639.8	11116.2	10874.6	10854.1	10820.0	10897.8	9973.6
55°	9434.4	9531.3	9816.6	10586.6	11641.8	12415.9	12428.1	12340.8	12115.5	12059.6	10895.1
57.5°	9284.2	9303.4	9710.2	10739.5	12197.4	13342.8	13744.1	13656.8	13240.4	13028.8	11708.7
60°	8345.0	8384.6	8951.2	10160.7	11955.8	13645.8	14616.4	14576.9	14120.9	13882.0	12342.1
62.5°	6680.9	6795.6	7378.5	8727.3	10832.3	13135.3	14970.0	15082.0	14727.0	14398.0	12541.4
63°	6375.2	6338.3	6954.0	8309.5	10534.7	12882.7	14975.5	15117.4	14754.3	14447.2	12486.8
65°	4719.3	4829.8	5229.8	6552.6	8766.9	11707.4	14638.3	14889.5	14653.3	14230.1	11882.1
67.5°	2649.7	2644.3	3086.6	4287.9	6136.3	9183.2	13236.3	13767.3	13718.2	12769.4	9849.4
70°	1296.9	1317.3	1498.9	2222.4	3558.9	6335.6	10998.8	11572.2	11589.9	10029.6	6810.6
72.5°	587.0	596.6	726.2	1082.5	1829.3	3373.2	7579.2	8126.6	8025.6	6391.5	3760.9
75°	309.9	330.4	400.0	544.7	881.9	1391.1	4122.7	4652.4	4440.8	2920.0	1384.2
77.5°	229.3	236.2	271.7	346.7	472.3	542.0	1778.8	2116.0	1982.2	1056.6	458.7
80°	167.9	173.4	202.0	245.7	297.6	275.8	670.3	768.6	689.4	359.0	140.6
82.5°	102.4	103.7	147.4	182.9	187.0	154.3	221.2	237.5	248.5	202.0	76.4
85°	36.9	46.4	99.7	132.4	110.6	77.8	92.8	102.4	111.9	128.3	45.0
87.5°	4.1	5.5	47.8	64.2	31.4	28.7	34.1	38.2	41.0	47.8	21.8
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°	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2042.2	2047.7	2043.6	2036.8	2035.4	2031.3	2023.1	2023.1	2023.1	2025.9	2023.1
5°	2072.3	2076.4	2066.8	2053.2	2038.1	2019.0	1998.5	1986.3	1984.9	1982.2	1975.3
7.5°	2129.6	2135.1	2113.2	2080.5	2039.5	1993.1	1949.4	1908.5	1889.3	1874.3	1874.3
10°	2212.9	2218.3	2174.7	2116.0	2034.0	1939.8	1836.1	1741.9	1668.2	1634.1	1625.9
12.5°	2312.5	2315.3	2242.9	2140.5	2005.4	1823.8	1602.7	1396.5	1253.2	1187.7	1180.8
15°	2421.7	2402.6	2307.1	2150.1	1923.5	1584.9	1202.7	950.1	801.3	757.6	774.0
17.5°	2532.3	2496.8	2356.2	2135.1	1739.2	1202.7	808.2	648.4	602.0	589.7	589.7
20°	2636.1	2586.9	2391.7	2069.5	1419.7	828.6	599.3	561.1	552.9	544.7	546.1
22.5°	2739.8	2664.7	2423.1	1923.5	1058.0	592.5	536.5	524.2	513.3	502.4	501.0
25°	2840.8	2737.1	2435.4	1653.2	720.8	509.2	490.1	473.7	451.9	439.6	436.8
27.5°	2945.9	2824.5	2427.2	1311.9	525.6	456.0	436.8	413.6	387.7	365.9	365.9
30°	3148.0	2991.0	2398.5	943.3	442.3	401.3	376.8	339.9	311.2	289.4	288.0
32.5°	3423.7	3208.1	2300.2	663.5	393.2	353.6	316.7	275.8	245.7	229.3	229.3
35°	3669.5	3426.5	2116.0	488.7	353.6	307.2	262.1	222.5	199.3	188.4	184.3
37.5°	4043.5	3745.9	1862.0	397.3	315.3	266.2	219.8	182.9	163.8	155.6	155.6
40°	4604.6	4136.3	1550.8	348.1	278.5	226.6	182.9	154.3	139.2	129.7	129.7
42.5°	5300.8	4614.1	1235.4	312.6	244.4	195.2	152.9	131.1	117.4	110.6	109.2
45°	6177.2	5117.9	951.5	279.9	217.1	166.5	129.7	110.6	96.9	92.8	94.2
47.5°	7091.8	5561.5	737.2	251.2	188.4	140.6	110.6	95.6	86.0	80.5	80.5
50°	7872.7	5867.3	559.7	218.4	166.5	118.8	96.9	86.0	77.8	75.1	73.7
52.5°	8525.2	5956.1	428.7	189.8	146.1	102.4	86.0	77.8	71.0	66.9	66.9
55°	9080.8	5878.2	335.8	159.7	122.9	88.7	76.4	69.6	61.4	57.3	56.0
57.5°	9405.7	5628.4	256.6	132.4	99.7	73.7	66.9	58.7	49.1	42.3	42.3
60°	9569.6	5265.3	196.6	109.2	76.4	58.7	54.6	43.7	34.1	28.7	27.3
62.5°	9373.0	4783.4	148.8	86.0	57.3	43.7	36.9	31.4	21.8	16.4	16.4
63°	9251.5	4644.2	143.3	81.9	53.2	41.0	34.1	28.7	19.1	15.0	13.7
65°	8433.8	4036.7	117.4	65.5	42.3	28.7	23.2	20.5	13.7	6.8	5.5
67.5°	6697.3	3087.9	92.8	49.1	30.0	20.5	13.7	12.3	4.1	0.0	0.0
70°	4528.1	1994.5	72.4	35.5	20.5	12.3	6.8	5.5	1.4	0.0	0.0
72.5°	2361.7	1022.5	56.0	25.9	12.3	8.2	4.1	1.4	0.0	0.0	0.0
75°	835.5	348.1	41.0	16.4	8.2	4.1	1.4	0.0	0.0	0.0	0.0
77.5°	252.5	129.7	25.9	12.3	5.5	2.7	0.0	0.0	0.0	0.0	0.0
80°	88.7	47.8	15.0	8.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	43.7	23.2	9.6	6.8	4.1	1.4	0.0	0.0	0.0	0.0	0.0
85°	24.6	15.0	8.2	6.8	4.1	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	10.9	8.2	6.8	5.5	2.7	1.4	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)