

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: P652367

Luminaire Tested: **GALN-SA4B-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18944.4 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

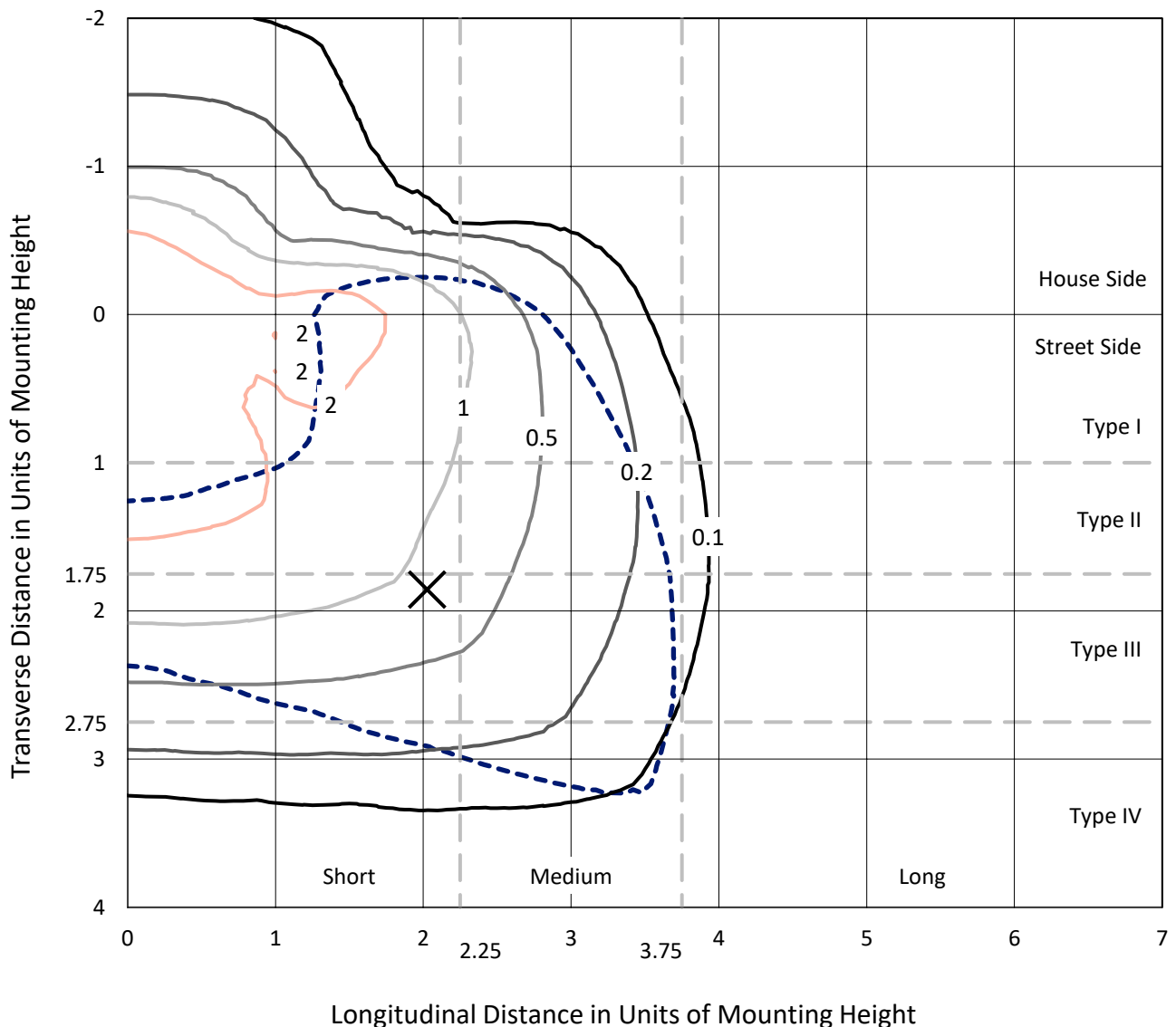
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

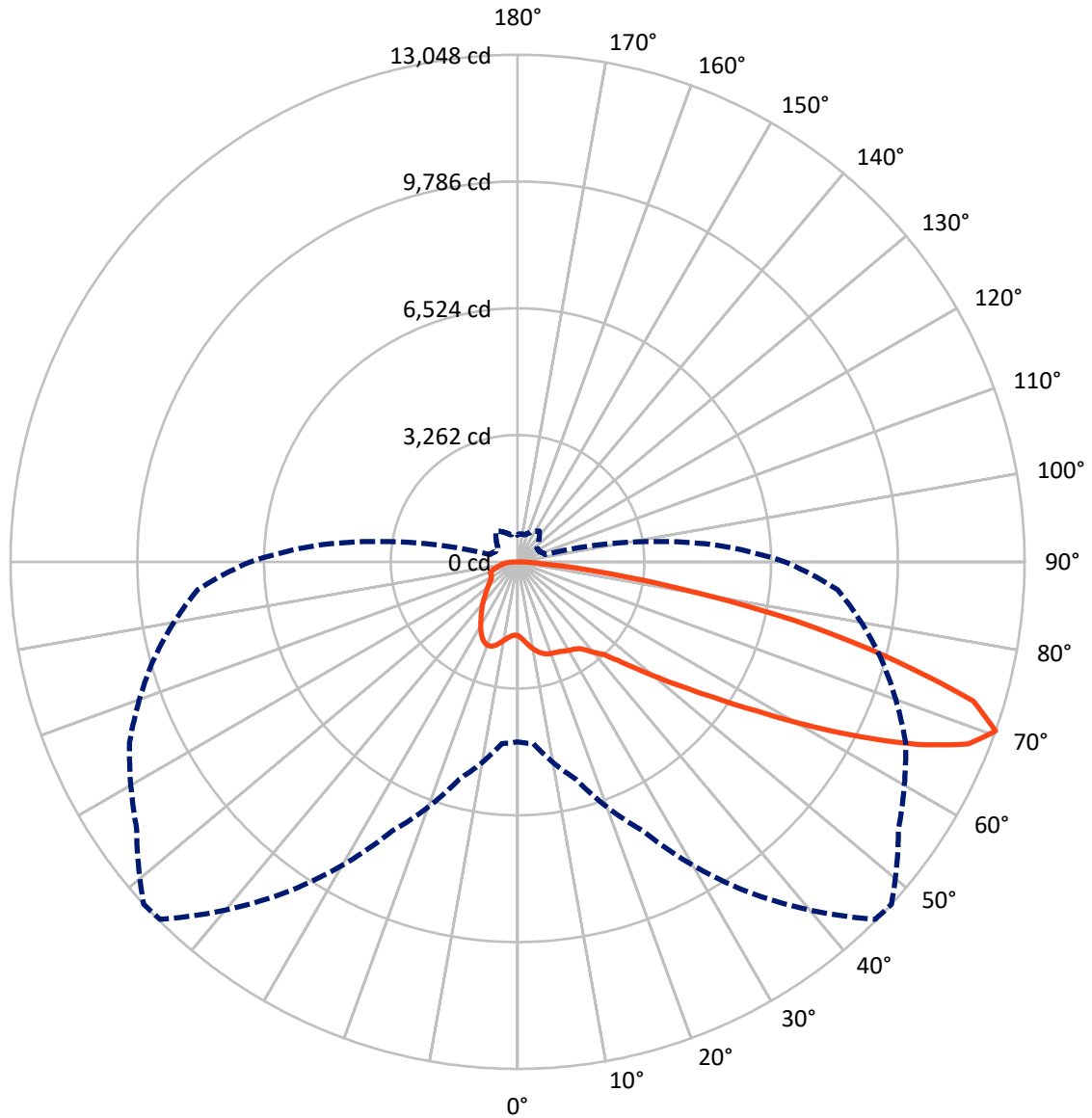
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4289.4	0.0	4289.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	14655.0	0.0	14655.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	18944.4	0.0	18944.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.0	1.0
10°-20°	655.4	3.5
20°-30°	1089.9	5.8
30°-40°	1544.7	8.2
40°-50°	2280.3	12.0
50°-60°	3949.6	20.8
60°-70°	5578.9	29.4
70°-80°	3207.1	16.9
80°-90°	442.5	2.3
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°	18944.4	100.0
0°-180°	18944.4	100.0

**Coefficient of Utilization**

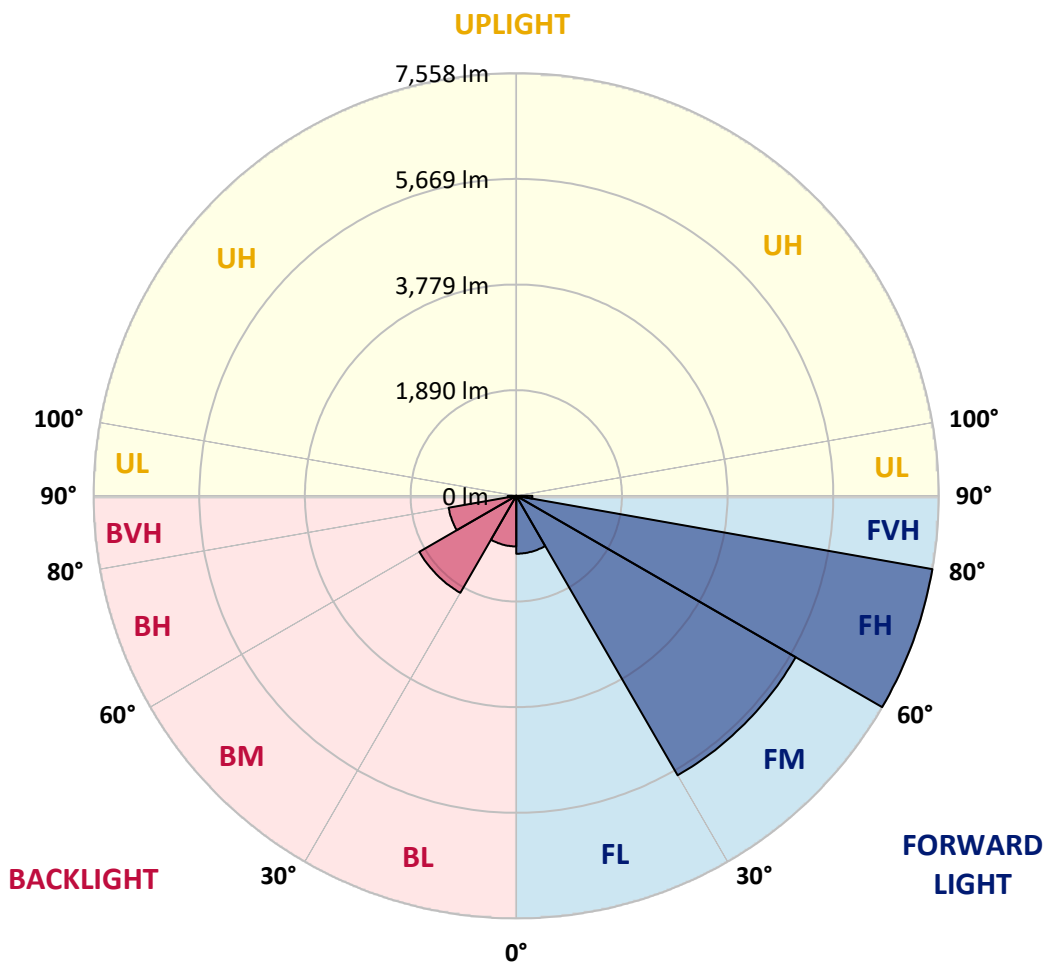


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.9	5.5			
FM (30°-60°)	5772.0	30.5			
FH (60°-80°)	7558.0	39.9			G4/12000
FVH (80°-90°)	289.1	1.5			G3/500
BL (0°-30°)	905.3	4.8	B2/1000		
BM (30°-60°)	2002.6	10.6	B2/2500		
BH (60°-80°)	1228.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	153.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8
2.5°	2024.5	2017.4	2016.4	2001.2	1993.0	1977.8	1971.7	1957.5	1940.3	1923.1	1906.9
5°	2183.6	2183.6	2176.5	2155.2	2121.8	2087.3	2072.1	2044.7	1996.0	1956.5	1923.1
7.5°	2346.8	2348.8	2334.6	2303.2	2255.6	2199.8	2185.7	2145.1	2076.2	2018.4	1968.7
10°	2487.8	2487.8	2468.5	2425.9	2366.1	2305.3	2291.1	2245.5	2168.4	2096.4	2031.5
12.5°	2595.2	2595.2	2569.8	2514.1	2449.2	2394.5	2378.3	2334.6	2262.7	2182.6	2100.5
15°	2665.1	2660.1	2631.7	2568.8	2506.0	2458.3	2447.1	2410.7	2344.8	2263.7	2171.5
17.5°	2668.2	2666.1	2638.8	2586.1	2531.3	2498.9	2491.8	2467.5	2415.8	2338.7	2241.3
20°	2609.4	2613.4	2595.2	2557.6	2531.3	2517.1	2514.1	2506.0	2469.5	2397.5	2300.2
22.5°	2546.5	2553.6	2536.4	2516.1	2514.1	2528.3	2530.3	2532.3	2509.0	2439.1	2349.8
25°	2531.3	2536.4	2519.1	2500.9	2512.1	2549.6	2557.6	2565.8	2547.6	2488.8	2408.6
27.5°	2608.4	2604.3	2570.9	2531.3	2538.4	2589.1	2600.3	2609.4	2600.3	2549.6	2481.6
30°	2826.3	2813.1	2746.2	2630.6	2594.1	2629.6	2640.8	2666.1	2666.1	2628.6	2560.8
32.5°	3191.3	3165.9	3043.2	2816.2	2689.4	2668.2	2679.3	2720.9	2742.2	2712.8	2638.8
35°	3634.3	3607.9	3432.5	3127.4	2863.9	2745.2	2742.2	2788.8	2845.6	2779.7	2683.4
37.5°	4079.3	4051.9	3841.1	3498.5	3118.3	2907.4	2889.2	2905.4	2929.7	2809.1	2745.2
40°	4524.3	4491.9	4307.4	3913.1	3429.5	3122.3	3074.7	3001.7	2991.5	2905.4	2864.9
42.5°	4965.3	4935.9	4842.6	4378.3	3802.6	3332.2	3259.2	3133.5	3172.0	3120.3	3084.8
45°	5410.3	5412.4	5313.0	4900.4	4252.7	3719.4	3621.1	3424.5	3515.6	3496.4	3516.6
47.5°	5804.7	5799.6	5764.1	5407.3	4811.3	4218.2	4091.5	3863.4	4019.5	4090.5	4245.5
50°	6186.9	6183.9	6185.9	5982.1	5460.0	4811.3	4671.3	4432.1	4783.9	5030.2	5308.0
52.5°	6734.3	6751.5	6628.8	6575.2	6248.7	5511.7	5357.7	5110.3	5687.1	6075.4	6617.7
55°	7283.7	7269.6	7173.2	7229.0	7073.9	6341.0	6179.8	5983.1	6692.8	7117.5	7932.6
57.5°	7607.2	7612.2	7710.5	7983.3	8092.7	7375.0	7229.0	7076.9	7823.1	8124.1	9102.4
60°	7898.1	7921.4	8204.2	8719.2	9016.3	8645.2	8515.5	8367.4	8860.1	8979.8	10118.2
62.5°	7989.3	8061.3	8555.0	9325.4	9916.5	10078.6	9917.5	9591.0	9847.5	9800.9	10806.5
65°	7534.2	7632.5	8517.5	9552.5	10720.4	11439.1	11336.7	10730.5	10688.9	10408.1	10919.0
67.5°	6335.9	6434.2	7570.7	9076.1	11052.8	12617.1	12514.7	11561.7	11199.8	10464.9	10067.5
70°	4635.8	4697.7	5784.4	7641.6	10384.8	13012.5	13047.9	11967.3	11017.4	9693.5	8266.1
72.5°	2671.2	2808.1	3569.4	5375.9	8484.0	12012.8	12259.3	11123.8	9863.8	8086.6	5779.4
75°	1148.6	1151.6	1650.4	2965.2	5745.9	9655.9	9894.2	9221.1	7746.0	5591.8	3085.9
77.5°	546.4	556.6	725.9	1324.0	3162.9	6671.5	7314.2	6514.3	4954.2	2686.4	1165.8
80°	354.8	361.9	444.0	656.9	1551.1	3868.4	4316.5	3757.9	2185.7	960.0	502.8
82.5°	214.9	217.0	297.0	401.4	853.6	1751.7	2065.0	1631.1	932.7	574.8	296.0
85°	130.8	131.8	180.5	248.3	518.1	605.2	621.4	616.4	547.4	376.1	158.1
87.5°	62.8	64.8	93.3	117.6	203.8	187.5	177.4	205.8	258.5	202.8	68.0
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°	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8
2.5°	1899.7	1896.7	1889.6	1886.6	1884.5	1885.6	1884.5	1884.5	1885.6	1885.6	1885.6
5°	1908.9	1903.9	1892.7	1892.7	1898.7	1912.9	1926.1	1936.2	1947.4	1946.4	1946.4
7.5°	1948.4	1939.3	1926.1	1930.2	1945.4	1967.7	1991.0	2013.3	2035.6	2037.7	2036.6
10°	2006.2	1997.0	1982.9	1988.0	2012.3	2045.7	2075.2	2107.5	2131.9	2139.0	2137.0
12.5°	2072.1	2053.9	2041.7	2055.9	2094.4	2139.0	2167.4	2191.7	2209.0	2219.1	2215.0
15°	2139.0	2121.8	2107.5	2137.0	2183.6	2225.2	2239.3	2243.5	2246.5	2256.6	2254.6
17.5°	2203.8	2180.5	2175.5	2214.0	2258.6	2276.8	2268.8	2251.5	2238.3	2246.5	2245.5
20°	2261.7	2243.5	2241.3	2280.0	2297.1	2280.0	2245.5	2215.0	2191.7	2193.7	2192.7
22.5°	2316.4	2302.2	2304.3	2320.5	2293.1	2234.3	2177.5	2136.0	2110.7	2115.7	2118.7
25°	2377.3	2363.0	2368.1	2341.8	2251.5	2149.2	2067.0	2031.5	2021.4	2031.5	2038.7
27.5°	2456.3	2447.1	2444.1	2342.8	2177.5	2023.4	1930.2	1917.0	1926.1	1948.4	1959.5
30°	2541.4	2541.4	2525.3	2325.5	2076.2	1872.4	1791.3	1793.3	1824.7	1856.2	1867.4
32.5°	2623.6	2640.8	2590.1	2278.9	1945.4	1725.4	1663.6	1665.6	1692.9	1731.5	1741.6
35°	2691.5	2741.2	2645.9	2193.7	1791.3	1601.7	1555.1	1527.7	1528.8	1558.1	1566.3
37.5°	2784.7	2877.0	2678.3	2067.0	1627.1	1496.3	1443.6	1395.9	1364.5	1352.3	1352.3
40°	2946.9	3082.8	2686.4	1879.5	1471.9	1395.9	1320.9	1264.1	1203.3	1148.6	1138.5
42.5°	3221.7	3393.0	2670.2	1663.6	1332.1	1285.5	1212.5	1142.5	1058.3	981.3	975.2
45°	3708.3	3796.4	2626.6	1439.5	1207.3	1179.0	1108.0	1032.0	942.8	873.9	868.8
47.5°	4487.8	4363.2	2568.8	1240.8	1093.8	1085.7	1031.0	942.8	853.6	805.9	800.9
50°	5626.3	5255.2	2560.8	1096.8	1002.6	1006.7	962.0	880.9	802.9	763.4	757.2
52.5°	6996.9	6332.9	2614.4	995.5	922.5	937.7	915.4	840.4	771.4	738.0	731.9
55°	8326.9	7302.0	2646.9	916.4	847.5	875.9	878.9	816.1	753.2	719.7	715.7
57.5°	9406.6	8031.9	2502.9	844.4	782.6	826.2	848.5	801.9	744.1	718.7	714.7
60°	10157.8	8376.6	2093.4	780.6	734.9	786.7	837.4	802.9	766.4	769.4	771.4
62.5°	10396.9	8223.5	1570.3	732.9	702.5	773.5	855.6	844.4	806.9	830.2	834.3
65°	10000.6	7591.0	1138.5	695.4	674.1	782.6	910.4	874.9	792.7	810.0	810.0
67.5°	8673.6	6539.7	886.0	660.9	641.7	799.9	965.0	871.8	759.3	779.6	761.4
70°	6880.3	5058.6	738.0	622.4	607.2	774.5	970.2	840.4	719.7	723.8	689.4
72.5°	4565.9	3326.1	634.6	585.9	554.6	696.4	928.6	799.9	681.2	657.9	623.4
75°	2237.3	1658.5	553.5	540.3	485.6	606.2	871.8	761.4	639.7	603.2	583.9
77.5°	866.7	705.6	472.4	482.6	422.8	534.2	796.8	706.6	584.9	535.3	520.1
80°	420.7	400.4	387.3	402.4	347.8	455.1	727.9	658.9	534.2	479.5	457.2
82.5°	261.6	247.3	297.0	313.3	267.6	415.6	690.4	618.4	470.4	397.4	379.1
85°	132.8	142.0	198.7	213.9	191.6	330.5	568.7	464.3	339.6	281.8	283.8
87.5°	50.7	68.0	104.5	112.5	102.3	174.3	313.3	270.6	218.0	148.0	136.8
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)