

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: P647302

Luminaire Tested: **GALN-SA2D-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12465.4 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

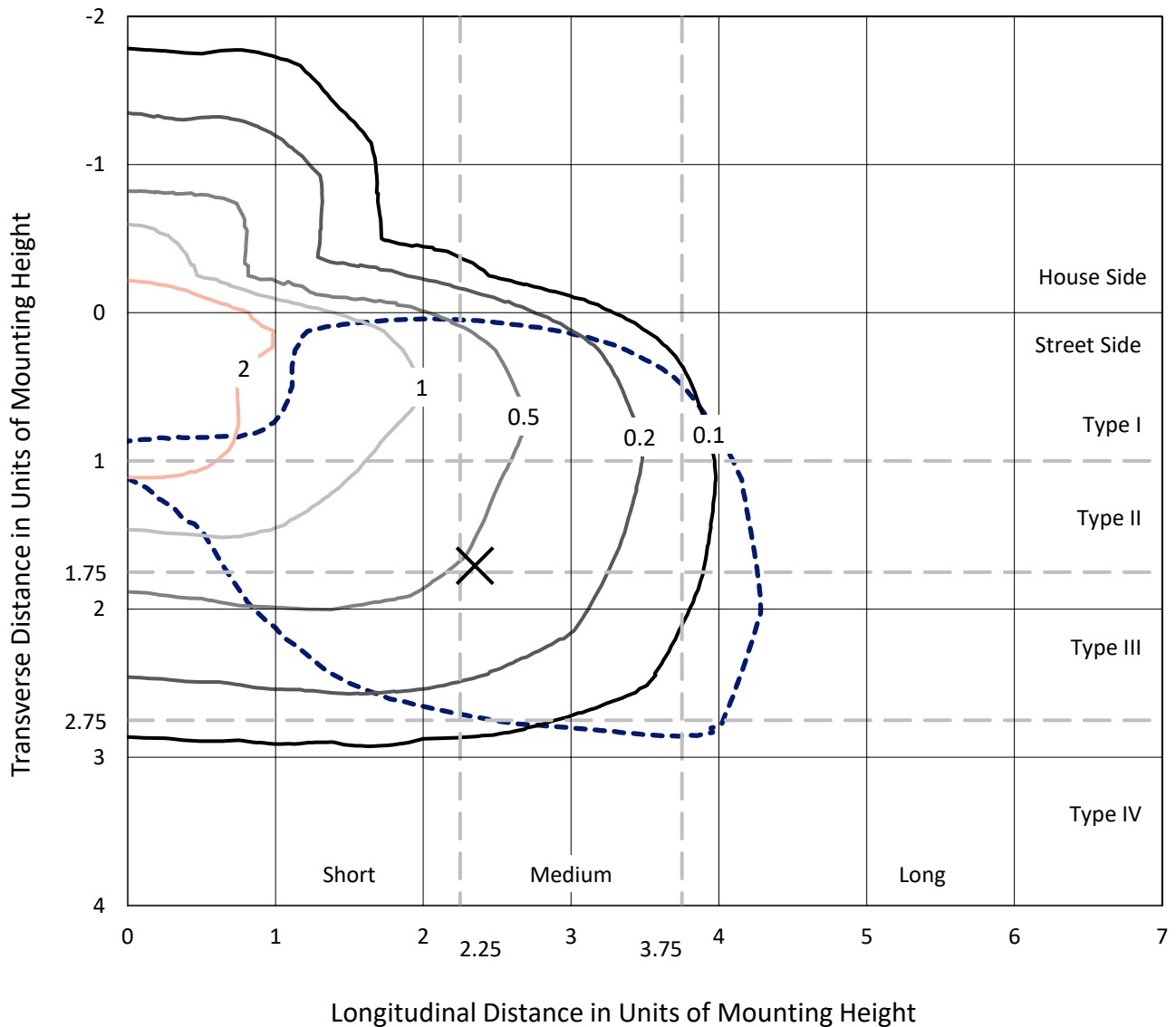
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

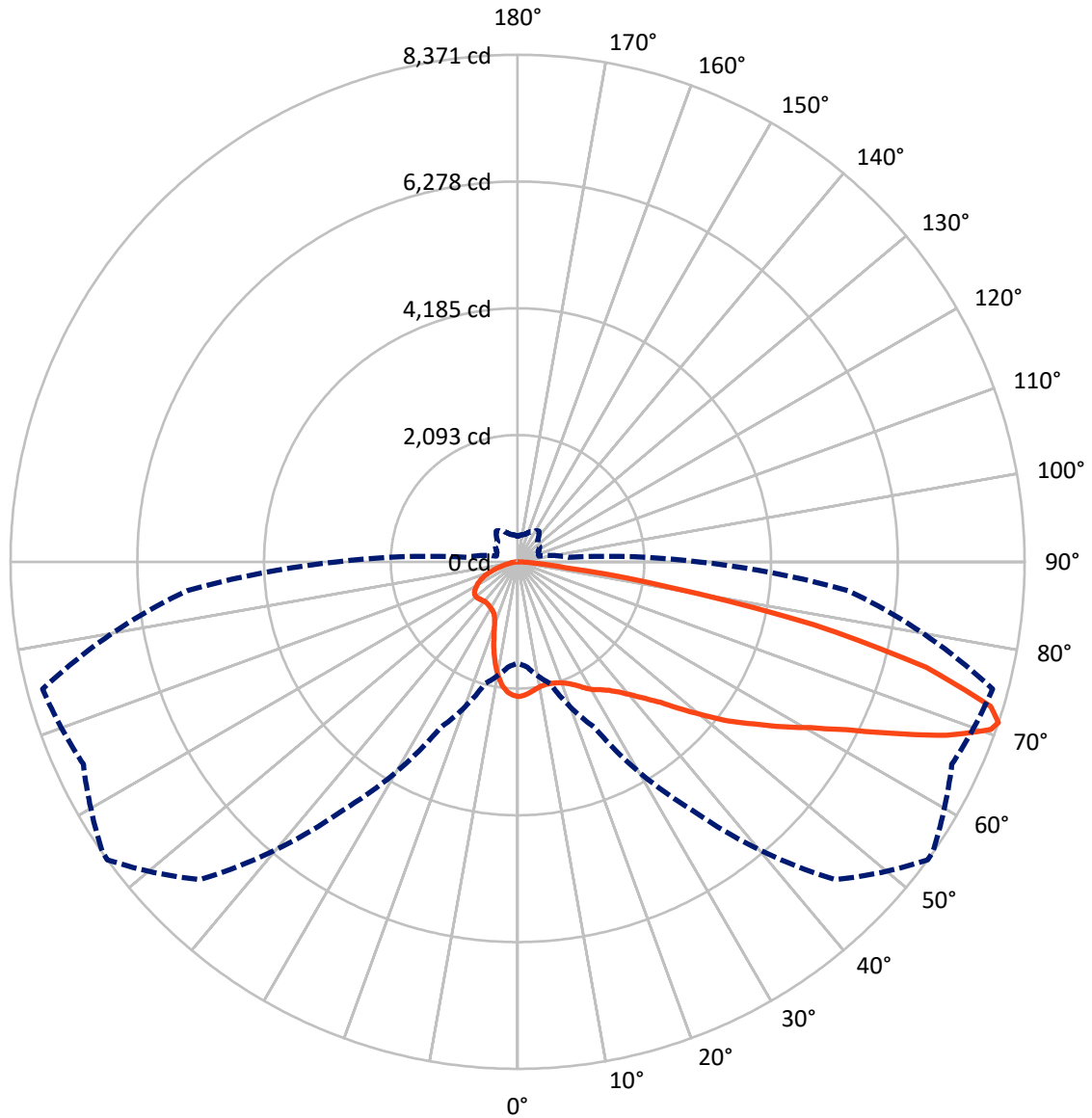
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2250.6	0.0	2250.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	10214.8	0.0	10214.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	12465.4	0.0	12465.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.2	1.6
10°-20°	523.3	4.2
20°-30°	871.4	7.0
30°-40°	1288.5	10.3
40°-50°	1814.8	14.6
50°-60°	2430.2	19.5
60°-70°	3063.0	24.6
70°-80°	2092.0	16.8
80°-90°	184.0	1.5
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°	12465.4	100.0
0°-180°	12465.4	100.0

**Coefficient of Utilization**

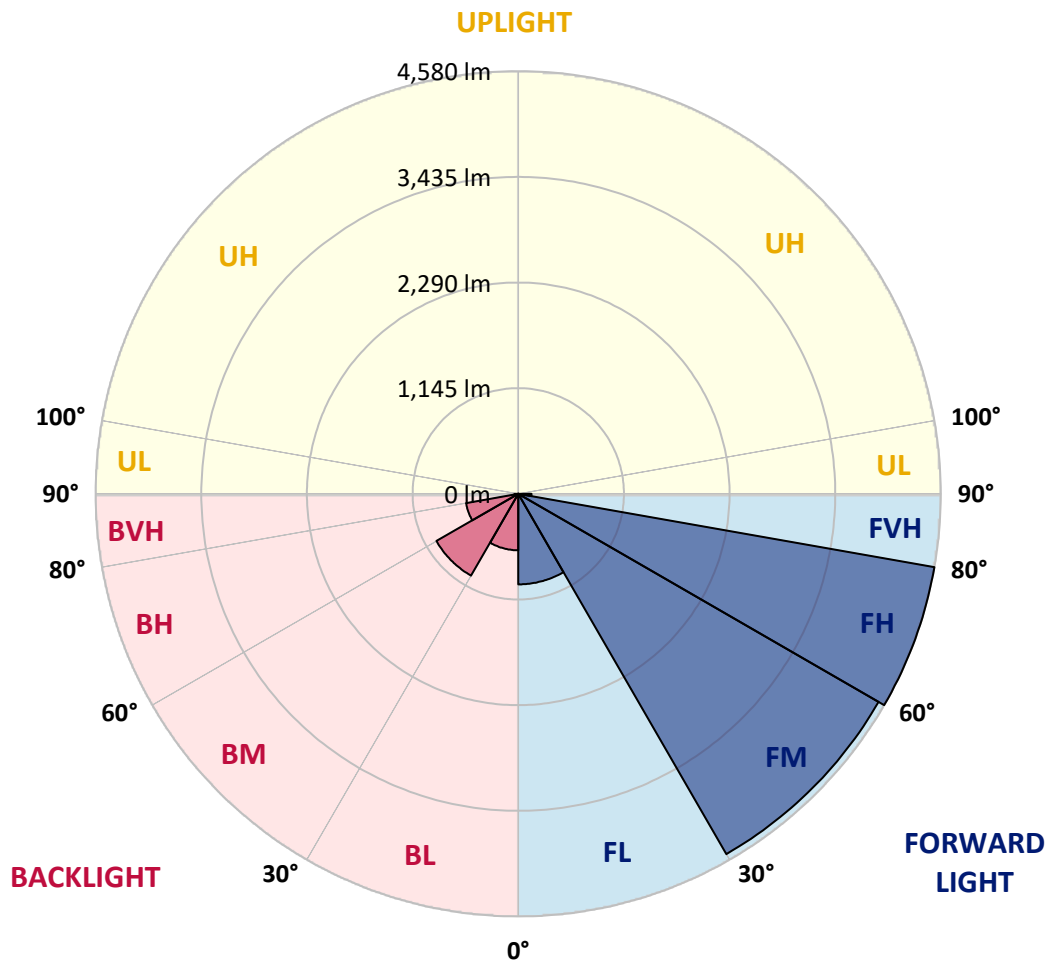


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.2	7.9			
FM (30°-60°)	4509.5	36.2			
FH (60°-80°)	4580.3	36.7			G2/5000
FVH (80°-90°)	143.8	1.2			G2/225
BL (0°-30°)	611.7	4.9	B2/1000		
BM (30°-60°)	1023.9	8.2	B2/2500		
BH (60°-80°)	574.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	40.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0
2.5°	2148.6	2158.7	2161.4	2168.1	2182.2	2193.7	2205.2	2203.8	2220.0	2226.7	2232.7
5°	2052.9	2055.7	2065.8	2079.3	2104.2	2135.8	2166.8	2167.4	2207.2	2238.8	2254.3
7.5°	1982.9	1991.7	1998.5	2012.5	2038.9	2073.1	2122.3	2126.4	2197.1	2259.7	2292.7
10°	1937.1	1947.2	1954.7	1972.1	1998.5	2036.8	2090.0	2097.4	2189.7	2292.7	2350.6
12.5°	1895.4	1905.5	1912.2	1935.2	1969.5	2016.6	2076.5	2085.3	2192.3	2331.1	2413.9
15°	1921.0	1929.1	1926.4	1933.1	1956.0	2009.9	2081.9	2090.7	2202.4	2368.1	2476.5
17.5°	2034.8	2041.5	2019.3	1993.8	1982.9	2022.6	2098.8	2108.2	2222.6	2406.5	2540.4
20°	2202.4	2220.7	2172.1	2115.0	2063.0	2068.5	2133.8	2143.9	2251.0	2444.8	2605.7
22.5°	2420.6	2434.1	2374.8	2280.6	2185.0	2135.8	2186.3	2192.3	2293.3	2494.7	2677.2
25°	2677.2	2685.2	2603.1	2481.9	2343.8	2251.0	2258.3	2269.1	2363.4	2551.2	2740.4
27.5°	2926.3	2951.9	2856.9	2708.8	2527.0	2372.1	2357.3	2364.0	2439.4	2582.9	2784.2
30°	3221.9	3219.9	3119.6	2947.8	2714.9	2504.1	2450.9	2449.5	2480.5	2598.4	2815.8
32.5°	3457.6	3485.1	3386.9	3199.7	2929.7	2640.8	2515.5	2512.9	2512.2	2625.3	2863.0
35°	3725.5	3729.6	3639.3	3450.8	3162.0	2812.5	2605.7	2592.3	2576.9	2683.2	2926.9
37.5°	3965.3	3984.1	3901.3	3689.8	3390.2	2990.9	2729.7	2720.9	2673.8	2783.6	3029.3
40°	4152.4	4166.6	4116.7	3915.4	3615.1	3183.5	2887.2	2871.1	2813.9	2947.8	3166.0
42.5°	4213.7	4242.6	4262.2	4163.2	3873.7	3411.8	3081.2	3061.0	3017.2	3197.0	3323.5
45°	4218.4	4264.2	4367.2	4372.0	4133.5	3685.1	3307.4	3293.2	3289.9	3516.1	3545.1
47.5°	4182.7	4229.1	4402.3	4495.8	4365.2	3961.2	3634.0	3611.7	3613.8	3910.7	3793.6
50°	4096.5	4151.8	4361.9	4575.3	4546.3	4248.0	3978.7	3971.3	4013.0	4361.2	4051.4
52.5°	3934.3	4000.9	4320.0	4625.1	4681.0	4495.1	4370.5	4349.7	4455.4	4850.0	4333.5
55°	3485.1	3585.5	4167.2	4652.7	4809.0	4731.5	4723.4	4761.1	4901.2	5383.3	4644.0
57.5°	3250.9	3326.3	3835.3	4657.4	4970.5	5006.2	5135.5	5144.9	5390.0	5949.5	4994.8
60°	3122.9	3189.6	3653.5	4626.4	5196.1	5346.2	5557.0	5590.6	5867.4	6562.9	5358.4
62.5°	3011.1	3068.3	3544.4	4519.4	5450.6	5850.6	6103.0	6119.2	6409.4	7240.3	5717.2
65°	2747.9	2813.2	3324.9	4412.4	5670.1	6480.8	6827.5	6808.7	6986.5	7824.8	5942.1
67.5°	2393.0	2475.8	2914.9	4042.6	5778.5	7169.6	7643.6	7620.1	7556.1	8207.9	6006.8
70°	1939.9	1984.3	2390.3	3403.7	5345.5	7531.2	8288.0	8263.1	7908.9	8258.4	5701.1
71°	1669.2	1738.6	2081.3	3023.2	4985.4	7420.7	8370.8	8364.1	7909.6	8119.0	5470.8
72.5°	1302.9	1345.3	1648.3	2342.5	4237.3	6793.2	8166.1	8191.7	7737.9	7731.8	4996.1
75°	824.2	843.0	1034.3	1378.9	2325.0	4810.9	6971.0	7040.3	6870.7	6328.6	3715.4
77.5°	478.7	503.0	619.4	812.7	1004.6	2611.1	4988.0	5063.4	4773.9	3484.5	1521.1
80°	278.7	305.7	408.0	472.0	461.3	968.9	2539.8	2668.4	2067.1	880.0	426.9
82.5°	154.9	173.0	286.8	287.5	245.8	316.5	799.2	836.2	589.8	354.9	174.4
85°	112.4	127.2	185.2	167.6	117.8	136.0	278.1	291.6	238.3	149.5	56.5
87.5°	39.7	56.5	101.7	80.8	32.3	28.3	80.1	65.3	60.6	41.7	12.8
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°	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0	2224.0
2.5°	2236.1	2237.5	2230.8	2218.6	2206.5	2191.0	2173.5	2160.1	2154.0	2153.3	2152.6
5°	2260.4	2263.7	2238.1	2200.5	2158.7	2107.5	2063.8	2014.0	2001.1	1980.9	1987.0
7.5°	2299.4	2297.4	2246.9	2166.8	2069.2	1960.7	1869.2	1815.9	1760.7	1745.3	1745.9
10°	2355.3	2342.5	2246.9	2098.1	1935.2	1774.2	1646.3	1565.5	1521.8	1485.4	1471.9
12.5°	2414.5	2382.2	2225.4	2001.8	1762.8	1565.5	1428.1	1319.0	1290.8	1261.2	1261.8
15°	2471.1	2417.3	2182.9	1866.4	1577.0	1342.6	1209.3	1144.0	1135.2	1138.6	1137.9
17.5°	2522.3	2442.2	2118.3	1715.6	1360.1	1151.4	1080.7	1085.4	1109.0	1125.8	1127.8
20°	2574.1	2457.0	2022.0	1513.6	1155.4	1035.6	1038.3	1075.3	1111.0	1133.9	1137.2
22.5°	2623.3	2463.7	1908.9	1318.4	1007.3	986.4	1026.1	1065.9	1100.9	1123.1	1126.5
25°	2655.6	2448.2	1748.6	1114.4	934.6	968.9	1010.7	1044.4	1074.0	1096.8	1102.2
27.5°	2664.4	2398.4	1550.0	949.4	900.9	952.0	990.5	1015.4	1038.3	1059.8	1063.9
30°	2659.6	2325.0	1331.9	852.5	881.4	932.6	962.2	980.4	1008.0	1024.8	1028.2
32.5°	2652.3	2239.5	1104.3	800.6	865.2	914.4	931.8	948.1	947.4	940.6	945.3
35°	2654.9	2137.1	919.8	769.6	851.1	900.9	915.7	895.5	837.7	834.9	832.3
37.5°	2669.1	2036.1	785.7	748.1	843.7	898.9	906.9	814.1	762.9	739.3	733.3
40°	2705.4	1918.4	697.6	731.9	843.0	914.4	867.3	773.0	674.7	628.9	625.5
42.5°	2753.9	1802.5	643.7	721.8	851.1	938.0	851.1	715.1	608.0	581.1	577.1
45°	2825.9	1669.8	614.1	717.1	863.2	946.7	845.7	672.7	581.1	559.5	559.5
47.5°	2907.4	1543.3	597.9	713.7	878.7	940.6	797.9	659.2	568.3	571.0	583.8
50°	2988.2	1433.5	585.8	706.3	892.2	937.3	778.4	658.5	571.7	606.0	628.9
52.5°	3081.8	1356.1	571.0	694.2	892.2	915.7	772.3	672.0	581.1	591.2	601.3
55°	3195.0	1331.9	552.1	668.0	876.0	861.8	768.9	691.5	587.8	564.2	568.3
57.5°	3344.4	1370.9	533.9	634.9	839.0	805.9	767.6	696.9	572.3	552.8	548.7
60°	3518.2	1448.3	528.5	601.3	788.5	758.2	759.5	681.4	550.8	530.6	533.9
62.5°	3640.0	1494.8	525.2	575.7	733.3	705.6	740.0	662.6	541.4	523.8	527.2
65°	3640.0	1438.2	494.2	536.7	661.9	642.4	716.4	639.0	529.2	509.0	505.7
67.5°	3502.0	1273.2	447.1	478.1	583.1	570.3	683.4	610.7	511.1	495.6	487.5
70°	3142.4	965.5	387.8	409.4	483.4	494.9	641.0	572.3	480.8	461.9	449.8
71°	2984.2	841.0	362.9	374.4	445.1	461.9	620.8	556.2	467.3	440.4	418.8
72.5°	2679.2	708.4	325.2	330.0	380.5	410.8	578.4	525.2	441.7	403.3	379.1
75°	2035.5	517.1	261.9	259.3	281.5	325.9	489.5	468.0	387.2	335.3	321.2
77.5°	879.4	281.5	195.9	197.9	191.2	247.1	385.2	402.0	331.9	272.7	259.9
80°	266.6	162.2	134.0	136.7	127.9	165.6	271.4	315.1	266.6	212.1	194.6
82.5°	136.7	96.9	91.6	90.2	81.5	93.6	164.3	215.5	190.6	132.6	117.1
85°	59.3	51.8	45.1	43.8	38.4	33.7	58.6	107.7	101.0	74.1	70.7
87.5°	14.8	13.5	8.8	8.1	4.7	0.7	0.0	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)