

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: P458665

Luminaire Tested: **GALN-SA2B-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10640 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

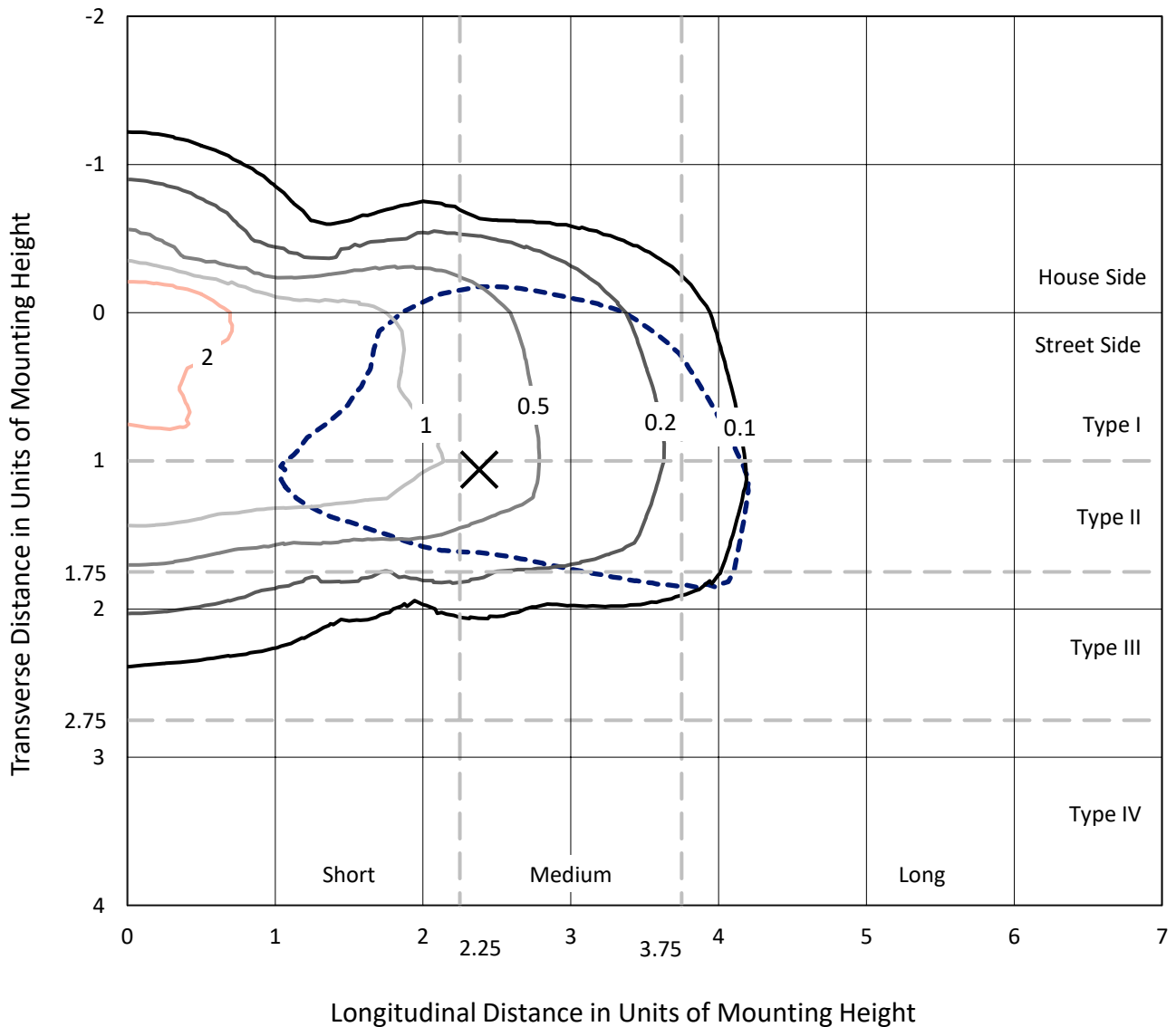
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

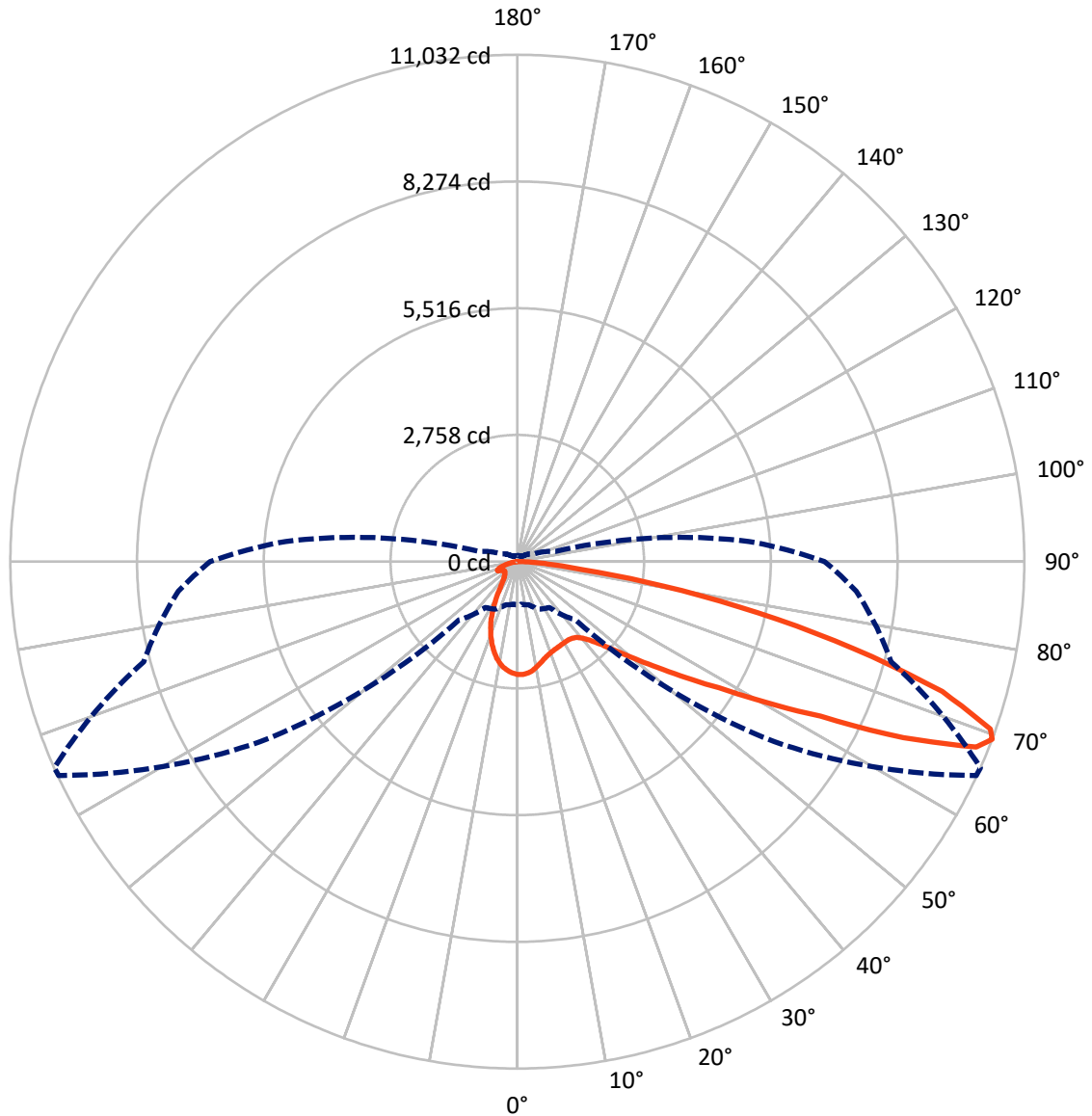
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2001.0	0.0	2001.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8639.0	0.0	8639.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	10640.0	0.0	10640.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.4	2.0
10°-20°	506.1	4.8
20°-30°	689.0	6.5
30°-40°	925.8	8.7
40°-50°	1382.4	13.0
50°-60°	2199.0	20.7
60°-70°	2704.6	25.4
70°-80°	1759.8	16.5
80°-90°	259.9	2.4
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°	10640.0	100.0
0°-180°	10640.0	100.0



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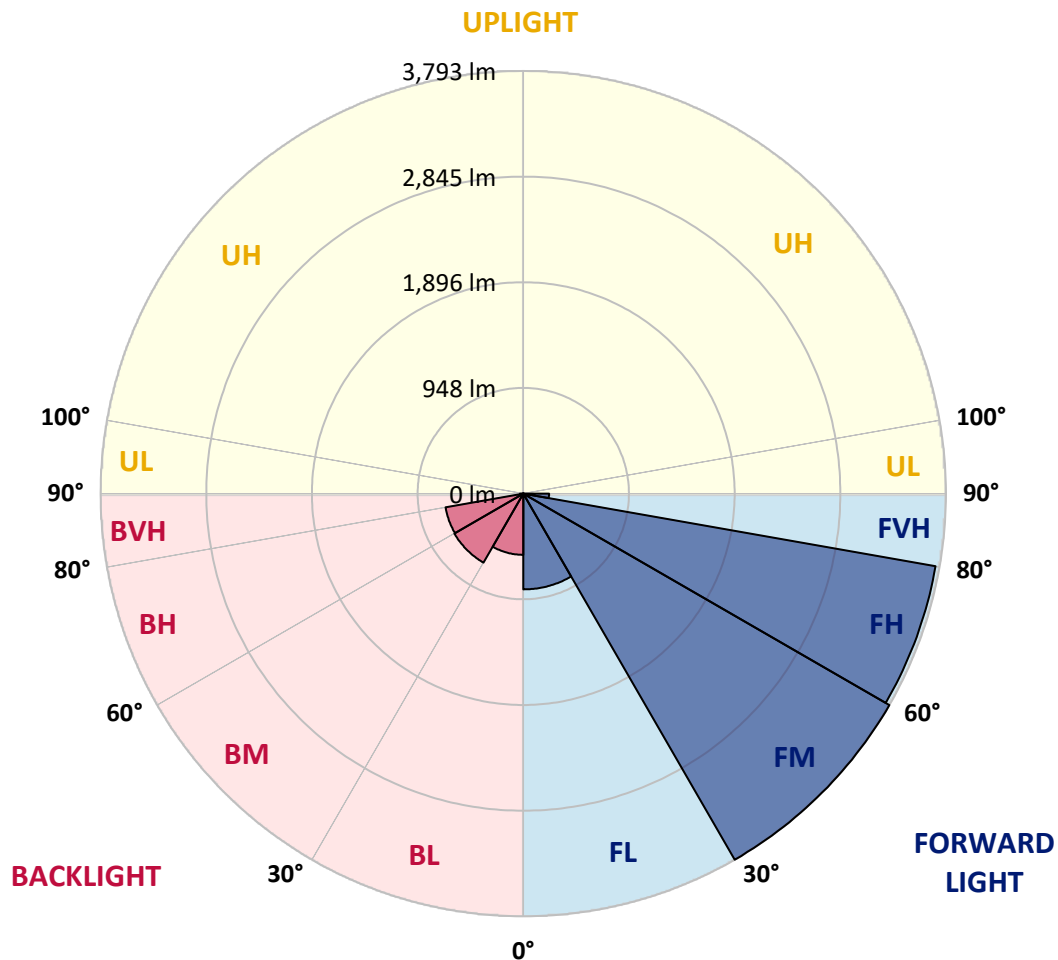
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.2	8.1			
FM (30°-60°)	3792.8	35.6			
FH (60°-80°)	3756.0	35.3			G2/5000
FVH (80°-90°)	231.0	2.2			G3/500
BL (0°-30°)	549.3	5.2	B2/1000		
BM (30°-60°)	714.4	6.7	B1/1000		
BH (60°-80°)	708.4	6.7	B2/1000		G2/1000
BVH (80°-90°)	28.8	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1
2.5°	2371.0	2380.5	2391.1	2402.9	2425.3	2437.6	2446.5	2456.5	2457.7	2463.0	2458.8
5°	2196.0	2207.2	2223.1	2245.5	2279.1	2331.6	2385.8	2430.0	2435.3	2460.0	2467.1
7.5°	2049.9	2056.4	2069.4	2105.3	2153.0	2211.4	2290.3	2379.9	2392.8	2451.8	2472.4
10°	1930.9	1937.4	1952.7	1989.8	2037.0	2110.0	2196.6	2314.5	2325.1	2426.4	2473.6
12.5°	1841.9	1847.8	1864.3	1900.8	1955.1	2023.4	2118.9	2243.8	2259.1	2392.8	2462.4
15°	1774.2	1785.4	1798.9	1829.0	1886.1	1952.1	2044.6	2179.0	2191.3	2357.5	2454.7
17.5°	1745.3	1750.6	1760.0	1787.7	1829.5	1894.4	1987.5	2128.3	2143.0	2332.7	2452.9
20°	1746.5	1751.8	1753.5	1768.9	1798.9	1854.9	1946.8	2088.2	2105.9	2310.9	2455.9
22.5°	1786.5	1787.1	1780.6	1775.3	1787.1	1833.7	1917.9	2058.2	2078.8	2301.5	2458.3
25°	1848.4	1859.0	1849.6	1824.8	1803.0	1825.4	1906.7	2041.7	2061.1	2288.0	2455.3
27.5°	1948.6	1950.3	1942.7	1909.1	1852.5	1836.0	1902.0	2029.3	2045.8	2277.9	2440.6
30°	2082.9	2077.6	2070.5	2033.4	1944.4	1876.7	1912.0	2018.1	2035.2	2263.2	2422.9
32.5°	2219.0	2235.5	2229.0	2185.4	2070.0	1955.6	1944.4	2016.9	2031.1	2252.0	2403.5
35°	2363.4	2371.0	2401.7	2379.3	2260.9	2083.5	2005.1	2035.2	2046.4	2252.6	2389.9
37.5°	2476.5	2497.1	2569.0	2588.5	2477.1	2252.6	2103.5	2087.0	2091.8	2281.5	2395.2
40°	2613.2	2648.6	2741.1	2820.6	2747.6	2472.4	2270.9	2183.1	2189.0	2351.0	2430.0
42.5°	2786.4	2811.2	2935.5	3043.4	3031.6	2762.9	2473.6	2340.4	2343.4	2489.5	2527.2
45°	2989.1	3024.5	3164.1	3326.2	3353.9	3091.7	2766.4	2578.5	2576.7	2704.5	2708.7
47.5°	3248.4	3270.2	3408.7	3585.4	3697.4	3504.7	3121.7	2920.2	2901.3	3018.0	2984.4
50°	3487.0	3521.2	3626.1	3819.4	4098.1	3988.5	3589.0	3363.3	3319.1	3428.1	3371.6
52.5°	3587.2	3623.1	3711.5	3951.3	4441.6	4614.2	4182.3	3891.8	3818.2	3901.9	3881.2
55°	3413.4	3459.9	3542.4	3834.1	4592.4	5336.0	4982.5	4502.9	4449.2	4413.3	4419.2
57.5°	2946.1	2990.3	3101.7	3423.4	4412.1	5859.9	6125.0	5288.3	5173.4	5007.8	5036.1
60°	2242.6	2270.3	2328.0	2684.5	3877.7	5996.0	7422.5	6281.1	6208.1	5600.0	5620.0
62.5°	1592.7	1623.9	1664.0	1841.9	2838.9	5612.4	8438.3	7667.6	7406.6	6213.4	6193.9
65°	1293.4	1272.1	1320.5	1403.5	1665.7	4349.7	8666.9	9592.0	9232.6	7021.2	6751.3
67.5°	1063.6	1041.2	1088.9	1236.8	1266.8	2524.8	7843.2	10841.2	10769.3	7899.8	7317.6
69°	941.6	929.8	971.6	1140.2	1216.2	1793.0	6832.7	11015.0	11032.1	8417.7	7404.8
70°	848.5	853.2	893.9	1091.2	1193.2	1478.4	5839.8	10775.2	10920.1	8676.4	7310.5
72.5°	624.6	634.6	691.2	903.9	1171.4	1254.5	3475.3	9411.7	9668.0	8691.7	6687.7
75°	436.6	431.9	482.0	680.6	1106.6	1243.3	2041.1	7278.7	7569.2	7512.6	5619.4
77.5°	285.8	293.4	333.5	480.8	931.0	1233.8	1330.5	5164.0	5352.5	5024.3	3323.8
80°	201.5	200.9	223.3	328.2	690.6	1185.5	1089.5	3254.9	3207.2	1974.5	985.8
82.5°	115.5	123.7	149.7	231.0	462.0	1043.5	1002.3	1556.7	1421.2	562.7	332.9
85°	64.2	67.2	89.0	139.6	269.9	786.0	875.0	708.2	668.2	235.1	143.2
87.5°	20.6	22.4	37.1	70.7	122.6	371.2	495.5	327.0	301.7	84.8	57.7
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°	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1
2.5°	2460.6	2467.7	2448.8	2430.6	2414.1	2391.1	2370.5	2353.4	2341.6	2339.8	2333.9
5°	2468.9	2469.4	2433.5	2385.2	2338.0	2286.2	2232.6	2194.3	2158.3	2138.3	2128.3
7.5°	2474.7	2469.4	2404.6	2326.3	2235.5	2141.2	2047.0	1971.5	1913.2	1890.2	1899.1
10°	2472.4	2455.9	2361.0	2235.5	2103.5	1962.7	1827.2	1721.1	1623.9	1573.8	1575.0
12.5°	2459.4	2432.3	2296.2	2133.6	1939.7	1751.2	1543.8	1400.6	1288.0	1221.5	1200.8
15°	2448.2	2401.1	2220.2	1995.1	1754.1	1484.8	1232.1	1055.3	961.0	908.6	908.0
17.5°	2436.4	2371.0	2137.1	1848.4	1540.8	1194.4	929.2	794.3	750.1	755.4	746.5
20°	2424.1	2335.7	2050.5	1685.2	1281.0	890.9	695.9	641.1	653.5	677.6	681.1
22.5°	2409.9	2298.0	1957.4	1505.5	1007.6	670.5	564.5	556.2	588.0	625.8	631.1
25°	2388.1	2250.8	1840.2	1317.5	777.2	540.3	494.4	500.3	531.5	563.3	566.8
27.5°	2357.5	2192.5	1721.7	1083.0	583.9	463.7	451.9	459.6	474.9	494.4	499.1
30°	2316.2	2126.5	1585.6	880.3	467.8	425.4	420.7	424.8	433.7	441.9	444.3
32.5°	2275.0	2062.9	1448.3	674.1	417.2	400.1	395.4	395.4	395.4	396.5	397.1
35°	2236.7	2002.8	1301.0	525.0	390.7	380.1	373.6	366.5	365.3	361.2	361.2
37.5°	2215.5	1948.0	1144.3	439.6	371.2	363.6	354.7	342.9	336.4	337.0	335.9
40°	2219.6	1912.0	1001.7	391.2	355.3	347.1	333.5	319.9	315.8	315.8	314.6
42.5°	2266.2	1900.3	865.0	365.9	340.0	330.6	313.5	301.1	298.7	298.1	299.3
45°	2373.4	1929.1	742.4	349.4	327.0	312.9	295.8	284.6	282.2	282.2	281.6
47.5°	2582.6	2022.8	654.6	338.8	317.6	299.3	281.6	270.5	266.3	265.2	265.2
50°	2907.8	2226.1	589.2	329.4	305.8	287.0	268.7	255.7	249.2	248.7	248.1
52.5°	3359.8	2543.1	563.9	322.3	292.8	274.0	254.0	241.6	233.3	231.6	230.4
55°	3888.3	2985.6	598.7	317.0	279.3	259.3	238.6	225.7	218.0	214.5	213.9
57.5°	4500.5	3517.1	730.6	309.9	266.9	243.4	223.3	210.4	202.1	198.0	196.8
60°	5050.3	4063.3	961.0	305.8	256.3	226.3	205.6	193.9	186.2	182.1	181.5
62.5°	5654.2	4584.2	1236.2	317.0	251.6	209.8	189.1	178.5	172.1	167.9	167.9
65°	6299.4	5105.6	1418.3	354.7	258.7	196.8	171.5	162.6	156.7	153.8	153.2
67.5°	6734.3	5285.9	1168.4	393.6	276.3	182.7	154.4	147.3	143.8	140.8	140.8
69°	6687.1	5057.9	862.0	403.6	281.6	175.6	144.9	139.6	134.9	133.8	132.6
70°	6538.0	4798.1	722.4	397.1	277.5	169.1	139.1	132.6	128.5	127.3	126.7
72.5°	5823.3	4161.1	538.0	345.3	236.3	146.7	123.1	117.3	113.7	112.0	112.0
75°	4838.1	3401.0	420.1	274.6	185.0	123.7	105.5	100.8	97.8	96.6	96.0
77.5°	2711.6	1899.1	301.7	215.1	140.2	100.2	88.4	84.3	81.3	80.1	80.1
80°	755.4	542.7	177.4	142.0	95.5	76.0	70.1	67.2	63.0	60.1	61.9
82.5°	284.6	235.1	101.3	85.4	60.7	50.7	48.9	46.5	44.8	40.7	40.7
85°	138.5	114.3	64.8	45.4	33.6	26.5	25.3	24.2	23.0	20.0	20.6
87.5°	47.7	50.7	28.3	16.5	10.0	6.5	5.3	2.9	2.9	2.9	2.9
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)