

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: P458887

Luminaire Tested: **GALN-SA4A-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16815 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

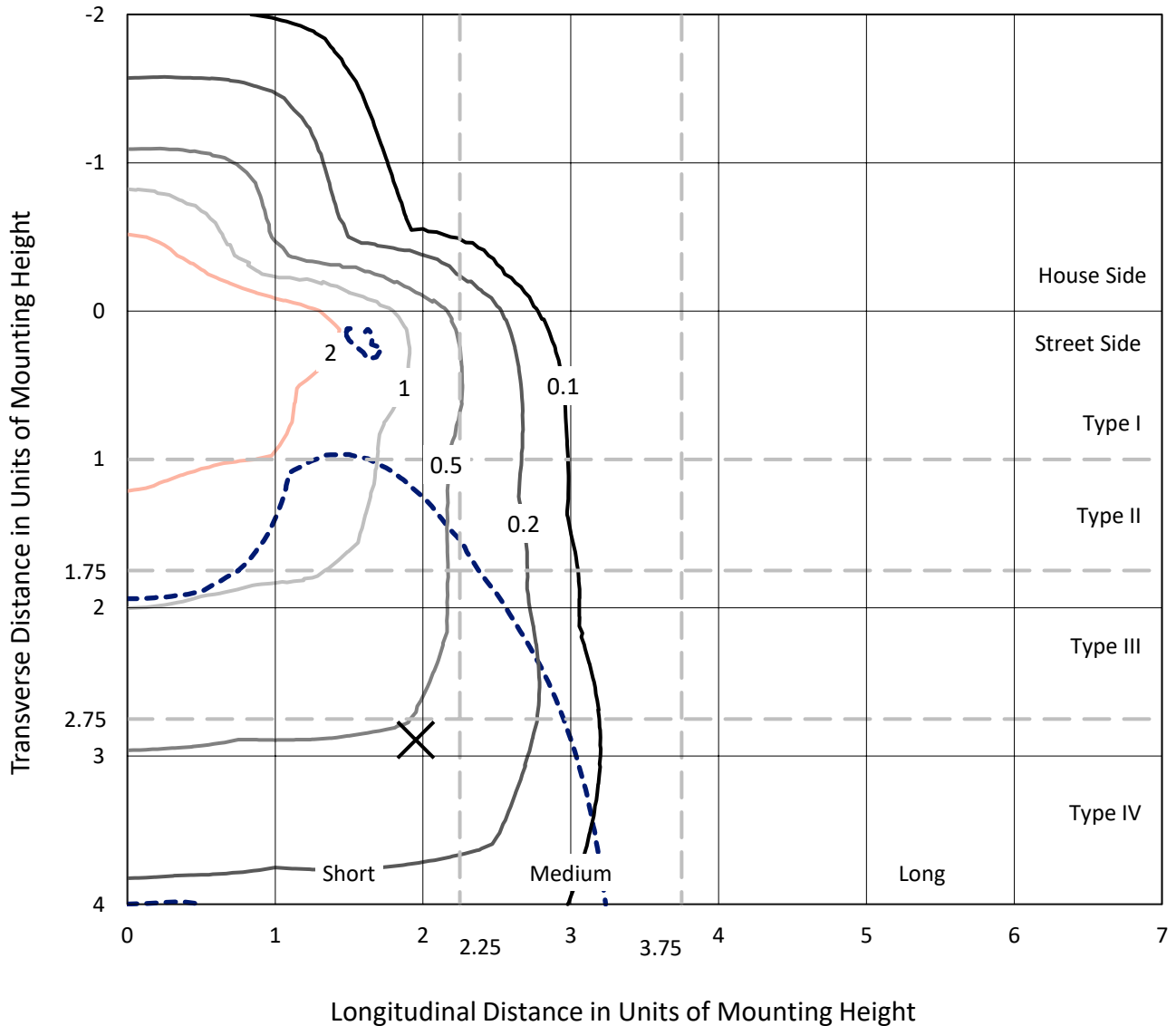
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458887  
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### Iso-Footcandle Lines of Horizontal Illumination

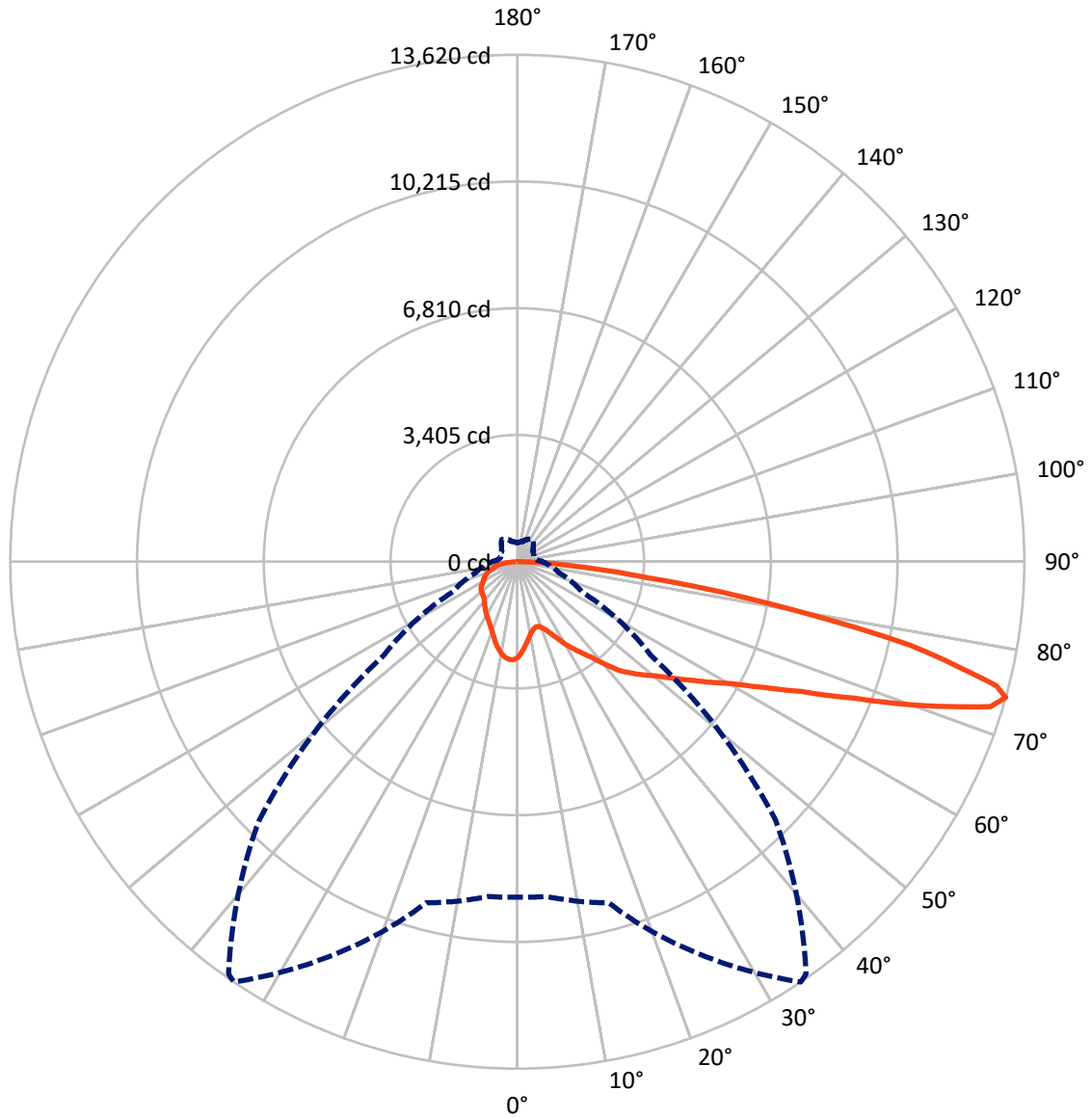
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P458887  
CATALOG NUMBER: GALN-SA4A-735-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P458887

CATALOG NUMBER: GALN-SA4A-735-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3578.3	0.0	3578.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	13236.7	0.0	13236.7
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	16815.0	0.0	16815.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	1.4
10°-20°	639.2	3.8
20°-30°	1053.8	6.3
30°-40°	1578.5	9.4
40°-50°	2294.7	13.6
50°-60°	3205.1	19.1
60°-70°	4012.7	23.9
70°-80°	3318.1	19.7
80°-90°	479.4	2.9
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°	16815.0	100.0
0°-180°	16815.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458887

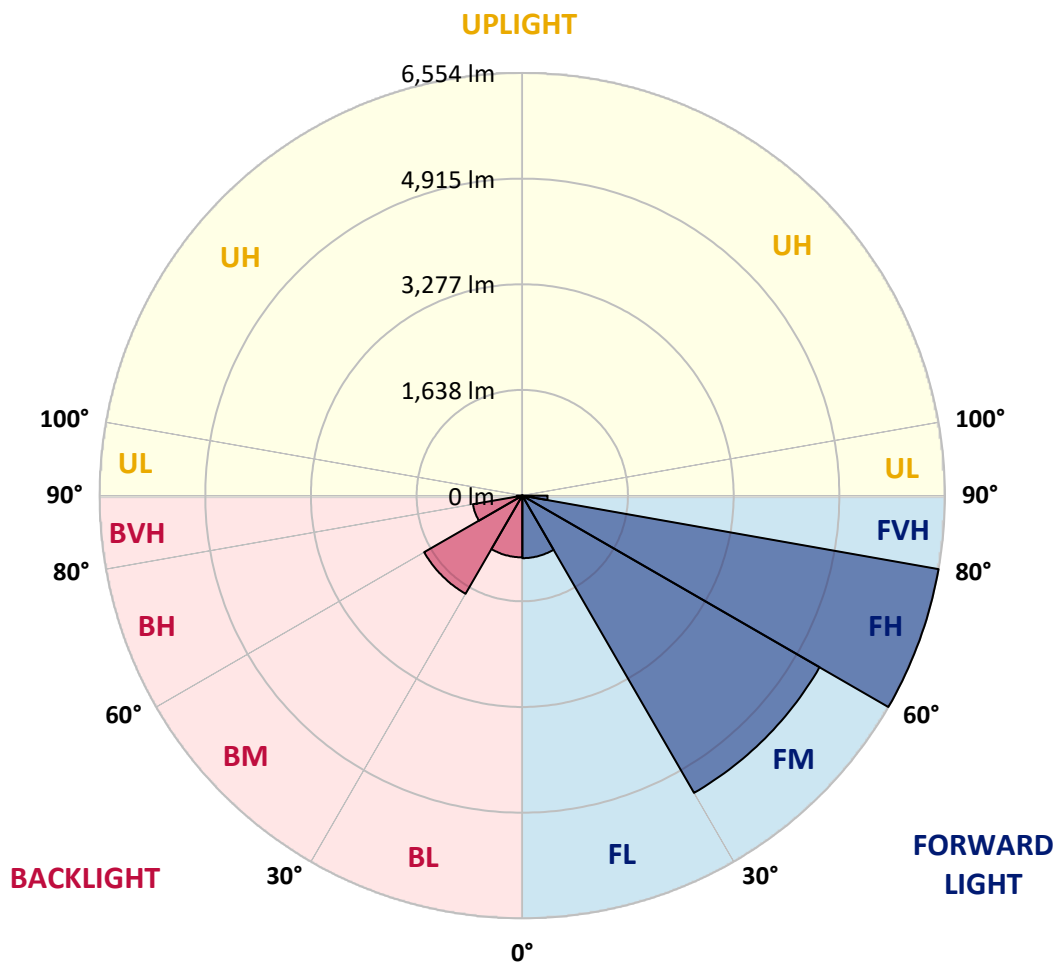
CATALOG NUMBER: GALN-SA4A-735-U-T4FT

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	969.3	5.8			
FM	(30°-60°)	5321.0	31.6			
FH	(60°-80°)	6553.6	39.0			G3/7500
FVH	(80°-90°)	392.8	2.3			G3/500
BL	(0°-30°)	957.1	5.7	B2/1000		
BM	(30°-60°)	1757.3	10.5	B2/2500		
BH	(60°-80°)	777.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	86.7	0.5			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3
2.5°	2372.6	2384.7	2391.3	2414.5	2420.1	2427.6	2447.1	2473.2	2506.8	2536.6	2562.7
5°	2175.1	2193.8	2204.9	2225.4	2265.5	2269.2	2321.4	2381.0	2449.0	2512.4	2564.5
7.5°	1987.9	2008.4	2017.7	2055.0	2108.1	2116.5	2192.8	2286.9	2400.6	2496.5	2576.6
10°	1847.2	1857.5	1878.0	1905.9	1969.3	1974.9	2074.5	2200.3	2347.5	2489.1	2597.1
12.5°	1770.9	1776.4	1781.1	1810.9	1873.3	1881.7	1986.0	2128.6	2305.6	2494.7	2630.7
15°	1782.0	1783.9	1763.4	1769.0	1819.3	1831.4	1934.8	2081.1	2279.5	2508.6	2681.0
17.5°	1876.1	1869.6	1819.3	1793.2	1828.6	1834.2	1924.6	2062.4	2267.4	2534.7	2733.1
20°	2024.2	2014.9	1928.3	1870.5	1891.0	1895.7	1958.1	2076.4	2279.5	2577.6	2814.2
22.5°	2208.7	2204.9	2073.6	2003.7	2002.8	2002.8	2035.4	2126.7	2315.8	2636.3	2898.9
25°	2466.7	2447.1	2275.7	2185.4	2160.2	2158.4	2154.6	2209.6	2362.4	2698.7	2999.6
27.5°	2731.3	2697.7	2545.0	2406.2	2352.1	2345.6	2321.4	2327.0	2422.0	2769.5	3114.1
30°	2968.8	2947.4	2803.9	2650.2	2585.9	2571.0	2504.0	2473.2	2521.7	2897.1	3296.7
32.5°	3150.5	3137.4	3025.6	2885.9	2790.9	2788.1	2690.3	2665.1	2677.2	3051.7	3505.4
35°	3297.6	3302.3	3245.5	3124.4	3015.4	2999.6	2934.3	2902.7	2867.3	3275.3	3768.1
37.5°	3498.9	3509.1	3505.4	3401.0	3267.8	3271.6	3256.7	3204.5	3110.4	3524.9	4059.6
40°	3720.6	3728.0	3727.1	3687.0	3617.2	3620.9	3615.3	3555.7	3415.0	3842.6	4383.8
42.5°	4027.0	3991.6	3899.4	3939.5	3980.5	3998.2	4036.4	3979.5	3786.7	4181.7	4688.4
45°	4369.8	4302.8	4094.1	4112.7	4264.6	4298.1	4508.6	4430.4	4190.1	4571.1	5047.1
47.5°	4586.0	4519.8	4343.8	4340.0	4541.2	4573.9	4946.5	4917.6	4557.1	4991.2	5484.9
50°	4778.8	4769.5	4571.1	4618.6	4815.1	4863.6	5423.4	5396.4	4923.2	5486.8	5961.8
52.5°	5064.8	4989.3	4831.0	4928.8	5188.7	5252.0	5896.6	5817.5	5259.5	5924.6	6424.8
55°	5193.3	5175.6	5166.3	5251.1	5607.9	5653.5	6356.8	6175.2	5546.4	6295.3	6776.9
57.5°	5537.1	5504.5	5596.7	5654.4	6101.6	6171.4	6837.5	6548.7	5797.9	6589.7	6948.3
60°	5982.3	5964.6	6049.4	6153.7	6653.0	6759.2	7385.2	6867.3	6000.0	6737.8	6854.3
62.5°	6647.5	6645.6	6629.8	6853.3	7434.6	7532.4	8014.0	7177.5	6031.7	6627.0	6368.0
65°	7601.3	7567.8	7429.9	7674.0	8407.1	8521.7	8668.9	7350.8	5840.7	6057.8	5361.9
67.5°	8599.0	8597.2	8485.4	8802.1	9803.5	9921.8	9487.7	7312.6	5310.7	4907.3	3808.1
70°	9426.2	9386.2	9528.7	10372.7	11587.4	11724.3	10204.1	6862.6	4230.1	3240.8	2262.7
72.5°	9624.6	9626.5	9922.7	11583.7	13300.5	13321.9	10462.1	5562.2	2830.9	1787.6	1131.8
74°	9013.6	9029.4	9488.6	11644.2	13620.0	13523.1	9802.6	4371.7	1914.3	1167.2	816.0
75°	8227.3	8127.7	8791.9	11240.9	13288.4	13184.1	9030.3	3508.2	1460.7	932.5	714.5
77.5°	4398.7	4500.3	5525.0	8388.5	10795.6	10675.4	6123.0	1682.4	789.0	649.3	514.2
80°	1565.9	1727.1	2427.6	4389.4	6921.3	6958.6	2922.2	771.3	555.2	478.8	363.3
82.5°	639.0	656.7	1042.4	1947.8	3514.7	3548.2	1193.3	458.3	396.8	329.8	217.0
85°	249.7	257.1	461.1	875.6	1499.8	1597.6	412.7	242.2	244.1	189.1	110.9
87.5°	83.8	95.0	189.1	291.6	509.6	499.3	120.2	71.7	87.6	82.0	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458887

CATALOG NUMBER: GALN-SA4A-735-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3
2.5°	2575.7	2593.4	2605.5	2618.6	2630.7	2634.4	2631.6	2640.0	2640.9	2641.8	2642.8
5°	2590.6	2614.8	2638.1	2651.2	2656.7	2652.1	2636.3	2627.9	2620.4	2614.8	2616.7
7.5°	2611.1	2645.6	2667.0	2672.6	2657.7	2636.3	2597.1	2566.4	2546.8	2533.8	2532.9
10°	2642.8	2676.3	2694.0	2678.2	2637.2	2585.0	2523.5	2465.8	2422.0	2409.0	2408.0
12.5°	2682.8	2721.0	2720.1	2673.5	2601.8	2508.6	2409.0	2341.9	2282.3	2252.5	2264.6
15°	2735.0	2763.9	2736.9	2653.0	2539.4	2411.8	2288.8	2197.5	2130.4	2098.8	2100.6
17.5°	2795.5	2820.7	2749.0	2616.7	2451.8	2287.9	2145.3	2058.7	2005.6	1982.3	1980.4
20°	2871.0	2878.5	2749.0	2553.3	2339.1	2143.5	2007.5	1946.9	1917.1	1905.0	1908.7
22.5°	2952.0	2937.1	2734.1	2463.9	2191.0	1992.6	1901.3	1874.3	1859.3	1857.5	1859.3
25°	3043.3	3001.4	2703.3	2342.8	2036.3	1862.1	1809.0	1813.7	1816.5	1816.5	1823.0
27.5°	3155.1	3071.3	2652.1	2190.0	1855.6	1741.0	1726.1	1758.7	1773.6	1776.4	1781.1
30°	3302.3	3147.7	2567.3	1999.1	1701.9	1632.1	1658.1	1701.9	1718.7	1728.9	1727.1
32.5°	3477.4	3231.5	2452.7	1808.1	1578.0	1555.7	1587.3	1632.1	1650.7	1656.3	1648.8
35°	3683.3	3326.5	2301.8	1629.3	1470.0	1483.0	1520.3	1534.2	1551.0	1551.0	1554.7
37.5°	3905.0	3402.9	2117.4	1465.3	1386.1	1433.6	1460.7	1447.6	1440.2	1430.8	1435.5
40°	4130.4	3459.7	1878.0	1303.2	1302.3	1382.4	1389.9	1352.6	1322.8	1313.5	1308.8
42.5°	4327.0	3495.1	1661.9	1177.5	1223.1	1332.1	1337.7	1278.1	1230.6	1202.6	1193.3
45°	4558.9	3536.1	1450.4	1073.1	1149.5	1292.0	1306.0	1225.9	1156.0	1097.4	1082.4
47.5°	4876.6	3629.3	1283.7	992.1	1096.4	1266.9	1286.5	1183.1	1090.8	1014.4	1002.3
50°	5235.2	3756.9	1154.2	937.1	1055.4	1244.5	1268.8	1139.3	1030.3	945.5	936.2
52.5°	5564.1	3825.8	1042.4	887.8	1015.4	1203.5	1245.5	1107.6	970.7	876.6	868.2
55°	5743.9	3714.0	932.5	839.3	960.4	1150.4	1212.9	1063.8	912.9	840.2	828.1
57.5°	5768.1	3483.0	832.8	787.1	902.7	1085.2	1152.3	1010.7	875.6	815.1	804.8
60°	5580.8	3138.4	755.5	744.3	844.0	1011.6	1084.3	964.1	837.5	787.1	776.9
62.5°	5115.1	2763.9	701.4	705.2	784.4	934.3	1034.0	919.4	801.1	756.4	747.1
65°	4314.0	2281.3	649.3	665.1	731.3	873.8	988.4	882.2	764.8	733.1	724.7
67.5°	2996.8	1647.0	606.4	623.2	681.0	812.3	935.3	842.1	723.8	707.0	694.0
70°	1659.1	1013.5	556.1	575.7	628.8	743.4	875.6	781.6	664.2	656.7	638.1
72.5°	871.9	645.6	499.3	520.7	558.0	654.9	784.4	715.4	605.5	573.8	549.6
74°	681.0	529.1	461.1	483.5	508.6	602.7	730.3	667.9	563.6	526.3	507.7
75°	593.4	471.4	428.5	457.4	479.7	567.3	688.4	634.4	540.3	504.9	488.1
77.5°	419.2	353.1	350.3	384.7	396.8	497.4	620.4	577.6	481.6	444.3	428.5
80°	294.4	264.6	277.6	299.0	315.8	439.7	575.7	499.3	395.0	351.2	345.6
82.5°	191.9	173.3	198.4	218.0	223.6	324.2	464.8	379.1	287.8	233.8	217.0
85°	88.5	86.6	113.6	110.9	109.9	158.4	275.7	221.7	165.8	123.9	116.4
87.5°	22.4	21.4	27.9	23.3	27.9	24.2	25.2	6.5	0.9	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)