

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: P528450

Luminaire Tested: **GALN-SA3C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17180 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

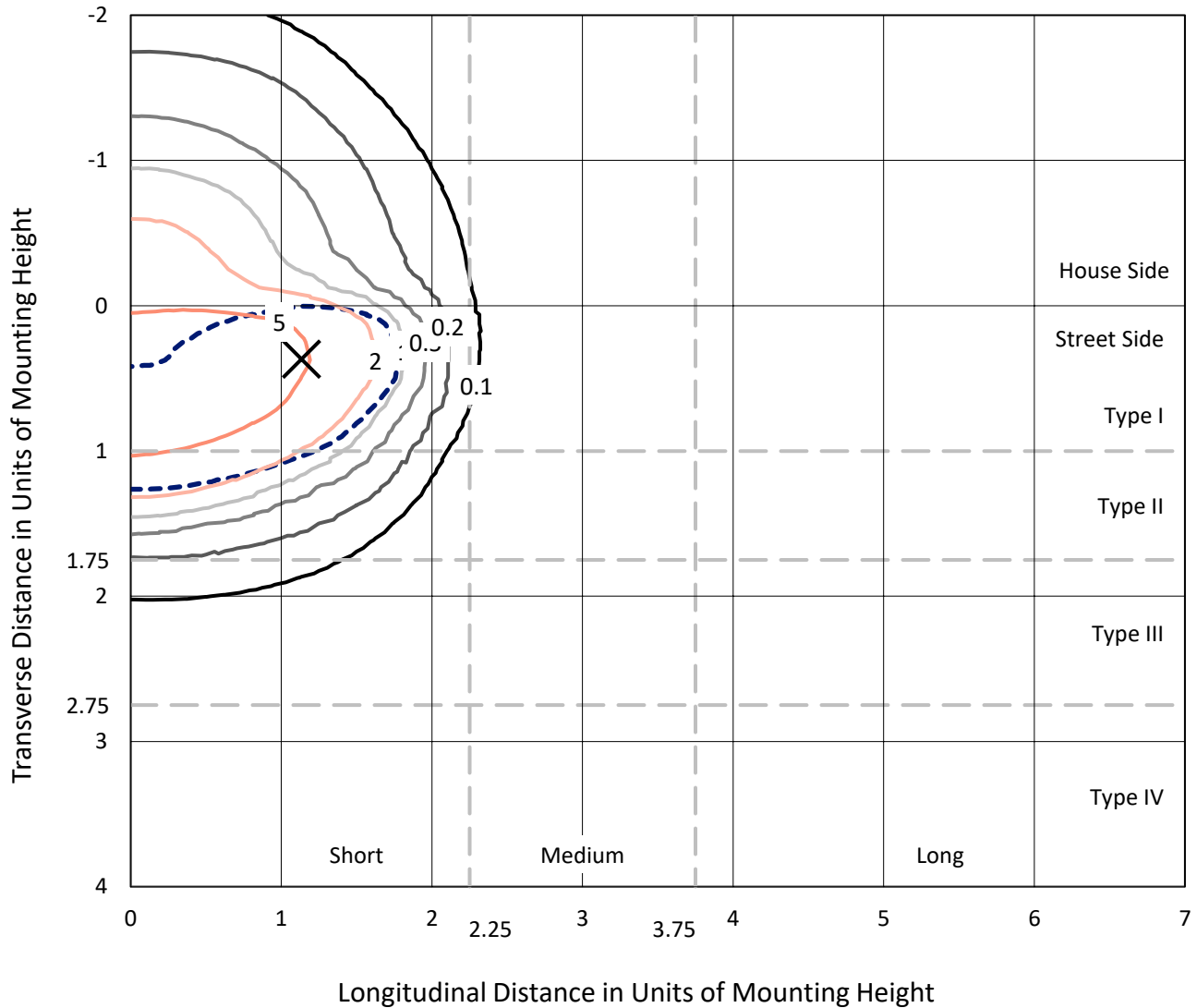
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528450  
 CATALOG NUMBER: GALN-SA3C-735-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

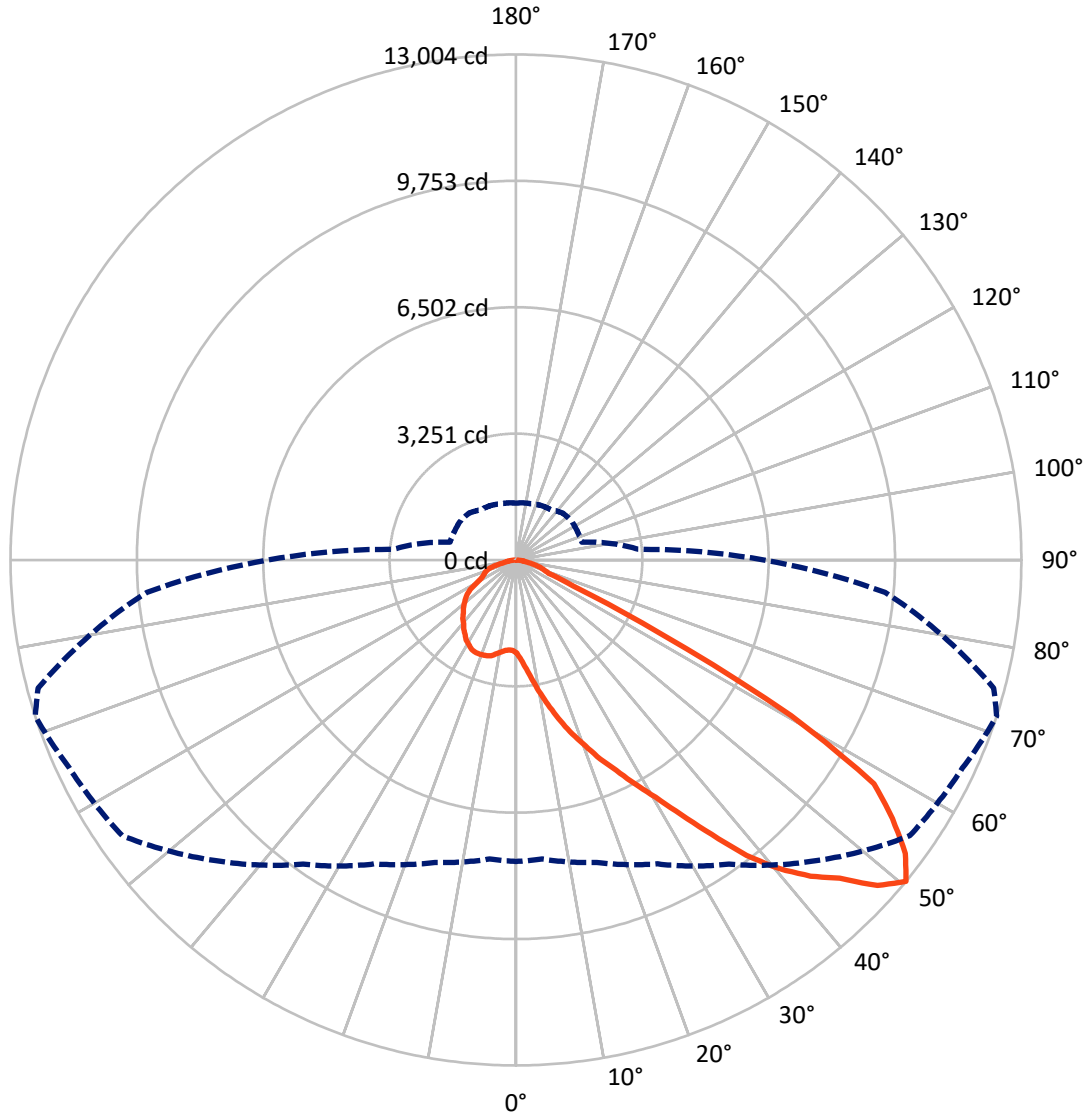
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P528450  
CATALOG NUMBER: GALN-SA3C-735-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P528450  
 CATALOG NUMBER: GALN-SA3C-735-U-T2R-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3936.0	0.0	3936.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	13244.0	0.0	13244.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	17180.0	0.0	17180.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.3	1.6
10°-20°	1051.6	6.1
20°-30°	2039.1	11.9
30°-40°	3378.0	19.7
40°-50°	4726.6	27.5
50°-60°	3987.5	23.2
60°-70°	1215.4	7.1
70°-80°	426.4	2.5
80°-90°	74.1	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°	17180.0	100.0
0°-180°	17180.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P528450

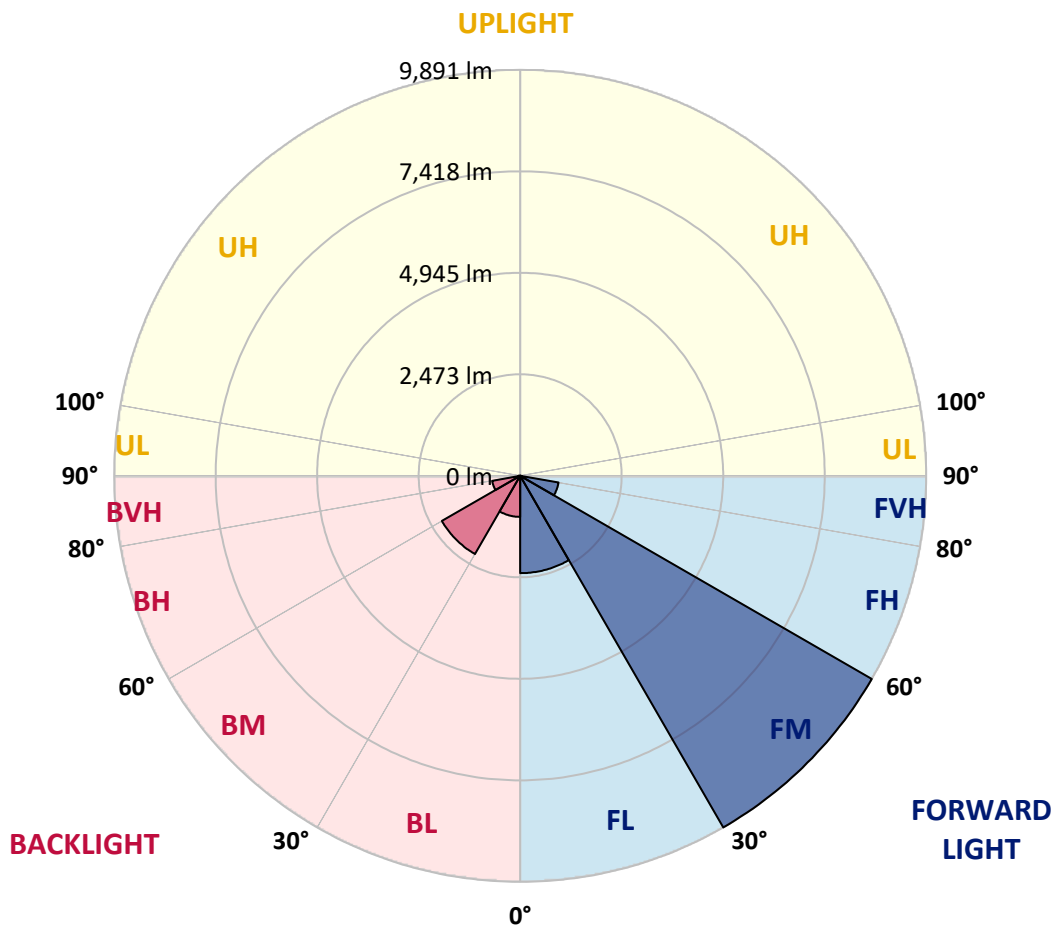
CATALOG NUMBER: GALN-SA3C-735-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2371.5	13.8			
FM (30°-60°)	9891.0	57.6			
FH (60°-80°)	948.3	5.5			G1/1800
FVH (80°-90°)	33.2	0.2			G1/100
BL (0°-30°)	1000.6	5.8	B3/2500		
BM (30°-60°)	2201.1	12.8	B2/2500		
BH (60°-80°)	693.5	4.0	B2/1000		G2/1000
BVH (80°-90°)	40.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P528450

CATALOG NUMBER: GALN-SA3C-735-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6
2.5°	3076.1	3057.0	2999.6	2980.5	2912.4	2789.1	2746.6	2621.2	2568.0	2519.2	2461.8
5°	3890.3	3801.1	3794.7	3686.3	3528.9	3437.5	3165.4	2982.6	2814.7	2729.6	2572.3
7.5°	4409.1	4411.2	4411.2	4321.9	4196.5	3964.7	3720.3	3390.8	3137.8	3012.4	2744.5
10°	4902.3	4859.7	4836.4	4827.8	4742.8	4517.5	4256.0	3847.8	3501.3	3354.6	2874.2
12.5°	5250.9	5214.8	5267.9	5240.3	5178.6	5031.9	4785.3	4319.8	3886.1	3688.4	3082.5
15°	5416.7	5442.2	5484.7	5561.3	5533.6	5478.4	5206.3	4804.5	4300.6	4077.4	3267.5
17.5°	5671.8	5601.7	5652.7	5748.3	5824.9	5799.4	5644.2	5155.2	4710.9	4436.7	3516.2
20°	5850.4	5810.0	5835.5	5946.1	6003.5	6148.0	6067.2	5614.4	5104.2	4815.1	3809.6
22.5°	6360.6	6301.1	6218.2	6235.2	6256.4	6358.5	6377.6	6118.3	5561.3	5255.1	4088.0
25°	6989.9	6934.6	6836.8	6736.9	6675.2	6656.1	6722.0	6513.7	5999.2	5682.4	4387.8
27.5°	7682.9	7589.4	7527.7	7321.5	7155.7	7130.2	7098.3	6985.6	6517.9	6175.6	4725.8
30°	8356.8	8282.4	8199.5	7870.0	7697.8	7670.1	7512.8	7544.7	7081.3	6700.7	5108.5
32.5°	8867.0	8873.4	8684.2	8435.4	8273.9	8127.2	8069.8	8161.2	7804.1	7497.9	5535.8
35°	9279.4	9298.6	9117.9	8892.5	8718.2	8820.2	8794.7	8837.2	8667.2	8293.0	6033.2
37.5°	9681.2	9585.5	9392.1	9283.7	9192.3	9360.2	9577.0	9613.2	9645.1	9205.0	6611.5
40°	9747.1	9755.6	9642.9	9719.5	9604.7	9857.7	10361.5	10314.7	10444.4	10059.6	7238.6
42.5°	9653.6	9672.7	9717.3	9825.8	10102.1	10406.1	11154.4	10963.1	11120.4	10778.2	7848.7
45°	9500.5	9421.9	9477.1	9889.5	10367.9	11043.9	11879.4	11730.5	11679.5	11392.5	8575.8
47.5°	8769.2	8850.0	9022.2	9530.3	10248.8	11154.4	12393.8	12359.8	12512.9	12310.9	9236.9
50°	7755.2	7723.3	8054.9	8626.8	9553.7	10937.6	12366.2	12674.4	13003.9	12723.3	9532.4
52.5°	5807.9	5977.9	6262.8	6972.8	8295.1	9755.6	11762.4	12276.9	12544.8	12485.2	9294.3
55°	3671.4	3722.4	3894.6	4738.6	5929.0	7829.6	10083.0	11275.6	11753.9	11977.1	9075.3
57.5°	1783.6	1687.9	1898.4	2576.6	3424.8	5265.8	7776.4	9821.5	10861.1	11265.0	8599.1
60°	931.1	967.3	1050.2	1292.5	1770.8	2733.9	4847.0	6545.6	8133.6	8754.3	6517.9
62.5°	771.7	784.4	839.7	960.9	1177.7	1573.1	2474.5	3190.9	4147.6	4706.7	3707.5
65°	654.8	661.1	720.7	801.5	939.6	1107.6	1273.4	1332.9	1613.5	1656.1	1318.0
67.5°	546.3	552.7	616.5	693.0	782.3	827.0	869.5	865.2	897.1	884.4	882.2
70°	420.9	427.3	493.2	574.0	618.6	593.1	724.9	754.7	767.4	778.1	795.1
72.5°	304.0	316.8	367.8	425.2	401.8	461.3	597.4	642.0	659.0	665.4	686.7
75°	221.1	225.3	238.1	221.1	255.1	321.0	420.9	476.2	497.5	503.8	535.7
77.5°	97.8	99.9	102.0	127.6	163.7	199.8	250.9	295.5	325.3	333.8	342.3
80°	51.0	53.1	65.9	87.2	116.9	146.7	182.8	208.3	227.5	229.6	238.1
82.5°	31.9	34.0	46.8	61.7	82.9	108.4	133.9	155.2	170.1	172.2	174.3
85°	14.9	19.1	27.6	38.3	55.3	70.2	72.3	61.7	65.9	68.0	63.8
87.5°	4.3	6.4	8.5	6.4	8.5	8.5	10.6	12.8	12.8	12.8	14.9
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: P528450

CATALOG NUMBER: GALN-SA3C-735-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6
2.5°	2429.9	2410.7	2336.3	2308.7	2236.4	2249.2	2210.9	2208.8	2200.3	2198.1	2196.0
5°	2489.4	2429.9	2340.6	2272.6	2232.2	2227.9	2200.3	2200.3	2208.8	2215.2	2200.3
7.5°	2587.2	2519.2	2368.2	2304.4	2268.3	2261.9	2242.8	2227.9	2247.0	2240.7	2223.7
10°	2699.9	2580.8	2421.4	2366.1	2306.6	2291.7	2291.7	2298.1	2266.2	2276.8	2259.8
12.5°	2825.3	2665.8	2489.4	2425.6	2355.5	2347.0	2342.7	2295.9	2312.9	2304.4	2261.9
15°	2984.7	2763.6	2576.6	2468.1	2408.6	2370.3	2315.1	2306.6	2295.9	2274.7	2255.5
17.5°	3156.9	2869.9	2616.9	2480.9	2391.6	2364.0	2321.4	2276.8	2244.9	2249.2	2234.3
20°	3303.6	2967.7	2631.8	2493.6	2378.8	2325.7	2259.8	2232.2	2198.1	2196.0	2193.9
22.5°	3477.9	3099.5	2653.1	2459.6	2340.6	2285.3	2240.7	2191.8	2168.4	2138.6	2153.5
25°	3686.3	3150.5	2657.3	2440.5	2312.9	2215.2	2191.8	2138.6	2130.1	2087.6	2096.1
27.5°	3837.2	3178.2	2623.3	2381.0	2249.2	2174.8	2132.2	2094.0	2079.1	2047.2	2038.7
30°	4039.2	3220.7	2551.0	2306.6	2185.4	2102.5	2077.0	2068.5	2026.0	1991.9	1987.7
32.5°	4268.7	3248.3	2504.3	2230.0	2119.5	2055.7	2068.5	2028.1	1974.9	1945.2	1936.7
35°	4451.6	3259.0	2387.4	2142.9	2074.8	2034.5	2019.6	2011.1	1934.5	1906.9	1885.6
37.5°	4730.1	3235.6	2289.6	2081.2	2026.0	2011.1	1998.3	1940.9	1853.8	1813.4	1783.6
40°	5055.3	3229.2	2164.1	1994.1	1979.2	1996.2	1957.9	1868.6	1747.5	1702.8	1681.6
42.5°	5367.8	3273.8	2085.5	1947.3	1928.2	1934.5	1881.4	1747.5	1687.9	1662.4	1628.4
45°	5890.8	3367.4	1955.8	1875.0	1866.5	1862.3	1798.5	1658.2	1624.2	1592.3	1585.9
47.5°	6362.7	3305.7	1872.9	1800.6	1809.1	1785.7	1649.7	1605.0	1566.8	1534.9	1524.2
50°	6390.4	3159.0	1756.0	1743.2	1745.3	1704.9	1575.3	1545.5	1496.6	1475.4	1460.5
52.5°	6245.8	2918.8	1647.5	1651.8	1658.2	1592.3	1483.9	1462.6	1422.2	1392.4	1383.9
55°	5839.8	2544.7	1541.3	1558.3	1575.3	1449.8	1415.8	1362.7	1330.8	1288.3	1290.4
57.5°	5144.6	2049.3	1392.4	1420.1	1456.2	1318.0	1292.5	1226.6	1179.9	1145.8	1141.6
60°	3448.2	1458.3	1169.2	1179.9	1260.6	1205.4	1203.2	1137.3	1073.6	1043.8	1026.8
62.5°	2034.5	1114.0	1009.8	999.2	997.0	1028.9	1082.1	1058.7	975.8	918.4	935.4
65°	1065.1	963.0	939.6	903.5	882.2	873.7	914.1	924.8	869.5	807.8	803.6
67.5°	895.0	895.0	875.9	863.1	833.3	797.2	771.7	737.7	729.2	712.2	690.9
70°	814.2	835.5	829.1	799.3	773.8	733.4	667.5	612.3	559.1	540.0	552.7
72.5°	710.0	731.3	731.3	716.4	682.4	620.8	557.0	493.2	448.6	414.5	410.3
75°	546.3	557.0	582.5	565.5	520.8	482.6	416.7	350.8	308.3	276.4	270.0
77.5°	348.6	365.6	365.6	363.5	331.6	295.5	253.0	206.2	174.3	150.9	144.6
80°	231.7	242.3	250.9	242.3	221.1	193.5	161.6	129.7	106.3	87.2	82.9
82.5°	170.1	182.8	189.2	180.7	159.4	138.2	114.8	91.4	68.0	53.1	48.9
85°	65.9	68.0	76.5	91.4	89.3	87.2	70.2	51.0	38.3	27.6	25.5
87.5°	17.0	14.9	17.0	17.0	14.9	12.8	12.8	12.8	12.8	6.4	8.5
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)