

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: P529152

Luminaire Tested: **GALN-SA4B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529152  
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-SA4B-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA 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: 18426 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

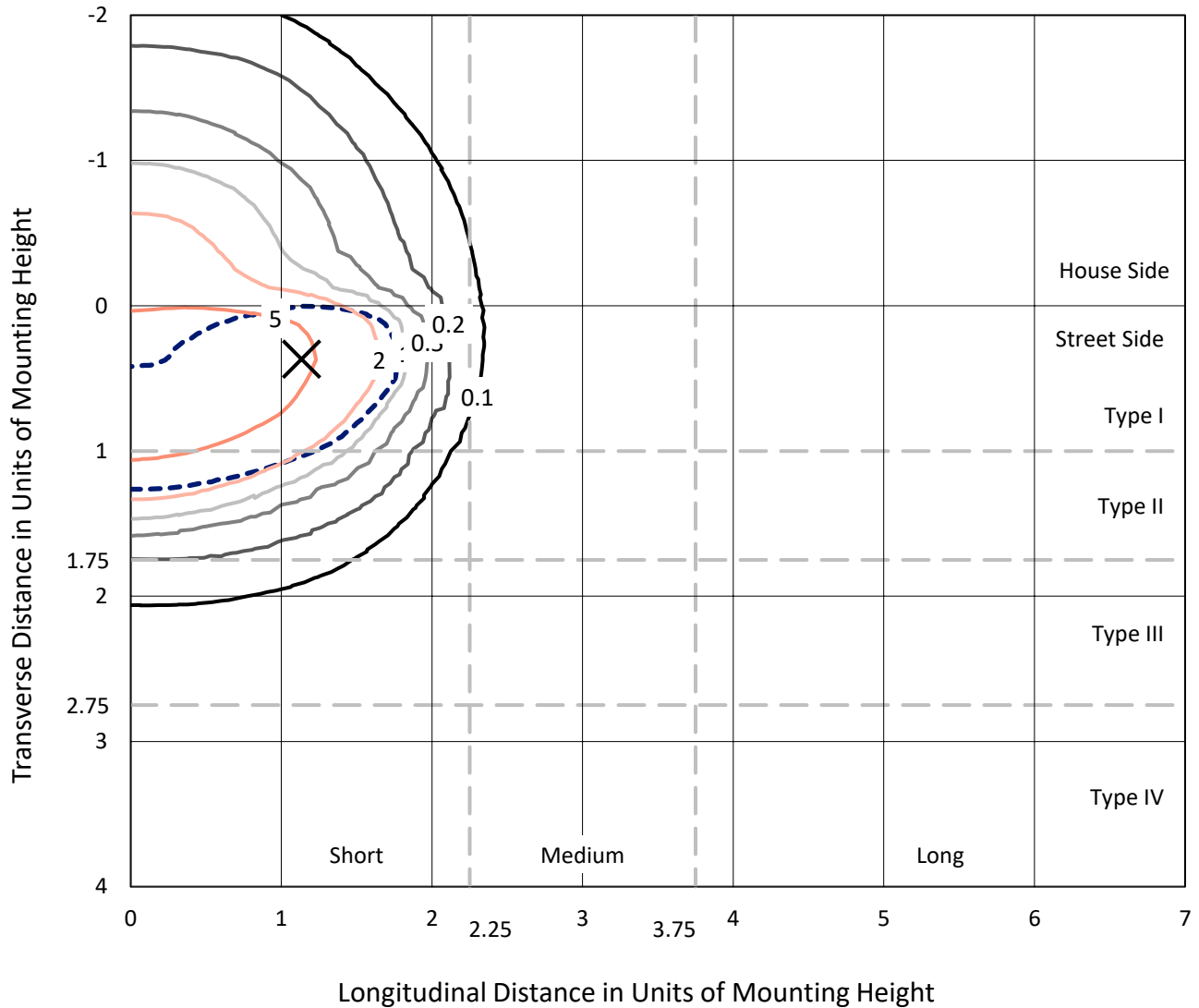
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

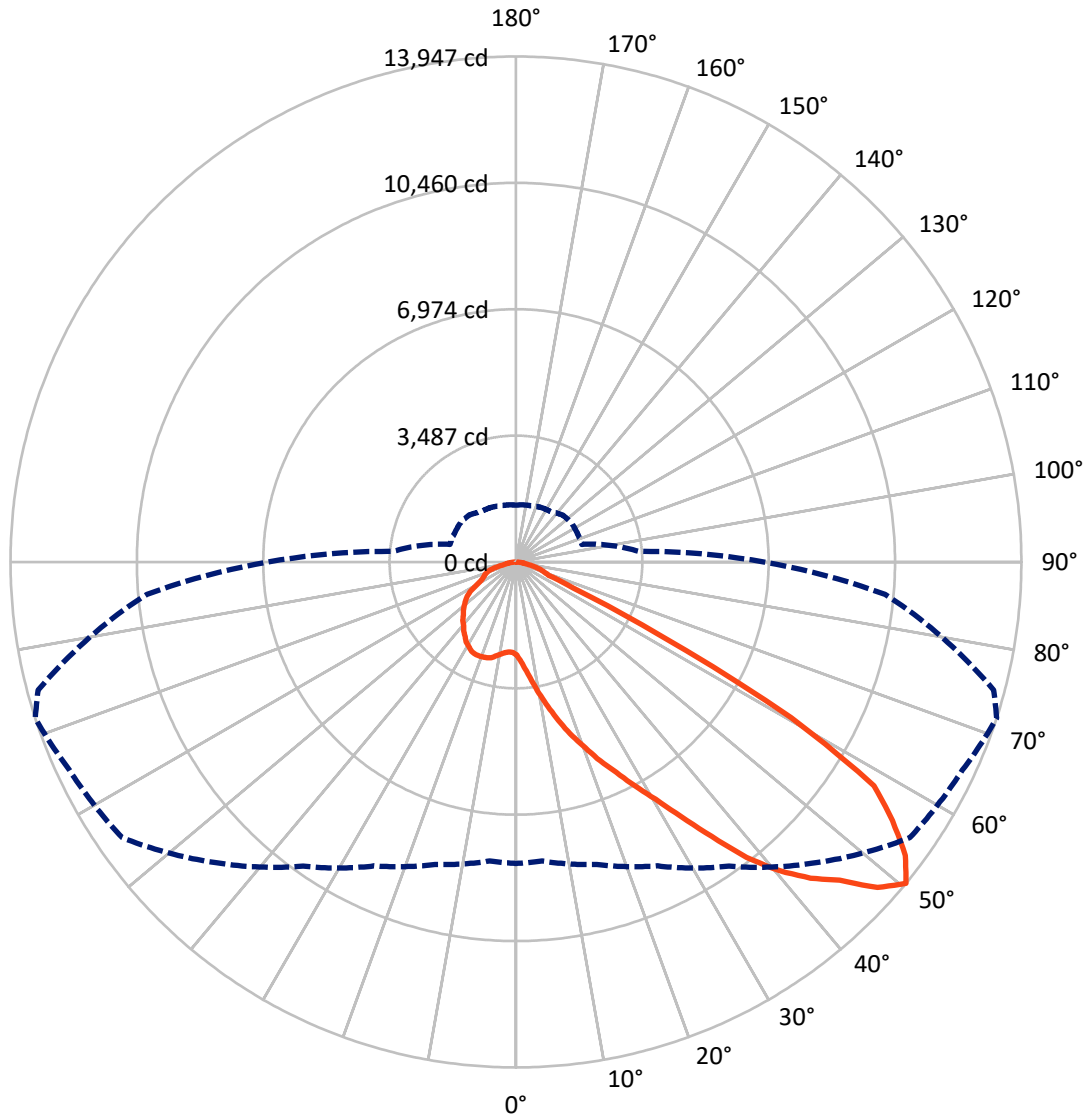
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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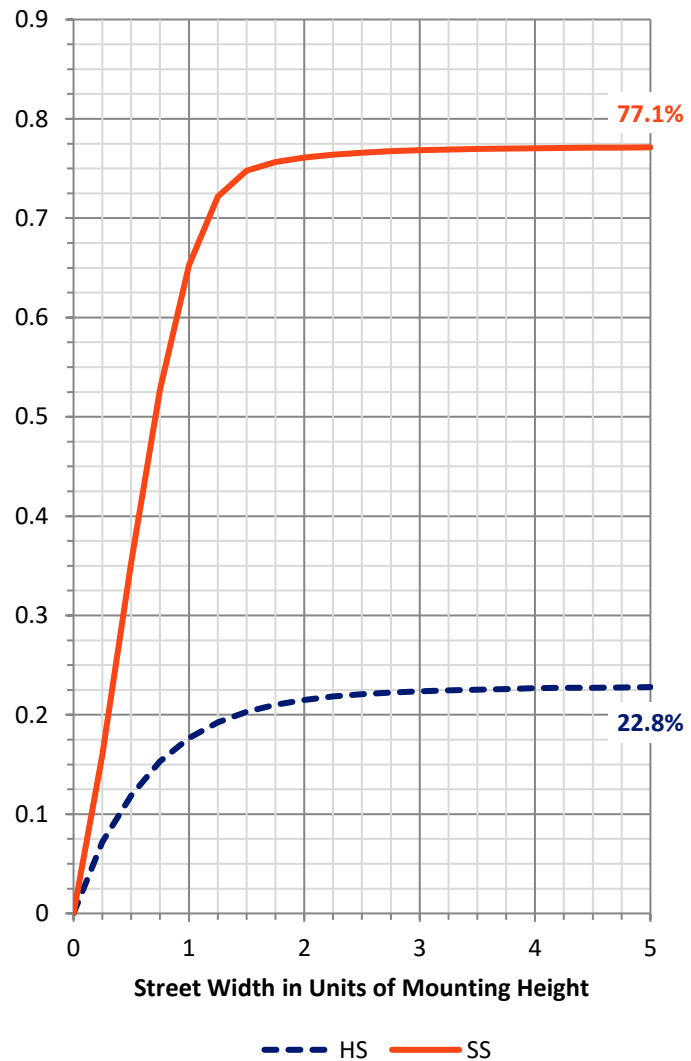
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4221.5	0.0	4221.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	14204.5	0.0	14204.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	18426.0	0.0	18426.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.7	1.6
10°-20°	1127.9	6.1
20°-30°	2186.9	11.9
30°-40°	3623.0	19.7
40°-50°	5069.4	27.5
50°-60°	4276.7	23.2
60°-70°	1303.5	7.1
70°-80°	457.3	2.5
80°-90°	79.5	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°	18426.0	100.0
0°-180°	18426.0	100.0



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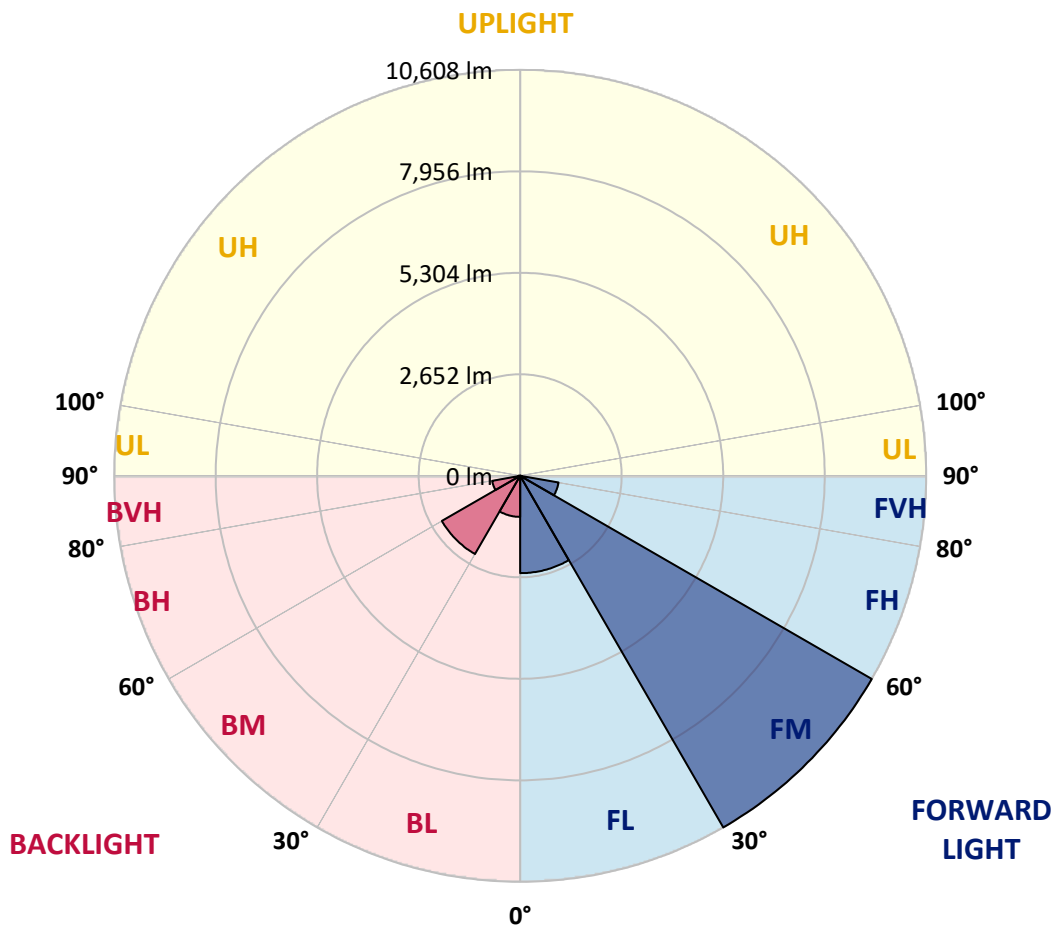
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2543.5	13.8			
FM (30°-60°)	10608.3	57.6			
FH (60°-80°)	1017.1	5.5			G1/1800
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	1073.1	5.8	B3/2500		
BM (30°-60°)	2360.7	12.8	B2/2500		
BH (60°-80°)	743.7	4.0	B2/1000		G2/1000
BVH (80°-90°)	43.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	3299.2	3278.7	3217.2	3196.6	3123.7	2991.4	2945.8	2811.3	2754.3	2701.9	2640.3
5°	4172.5	4076.7	4069.9	3953.6	3784.9	3686.8	3395.0	3198.9	3018.8	2927.6	2758.9
7.5°	4728.8	4731.1	4731.1	4635.3	4500.8	4252.3	3990.1	3636.7	3365.4	3230.8	2943.5
10°	5257.8	5212.2	5187.1	5178.0	5086.8	4845.1	4564.7	4126.9	3755.2	3597.9	3082.6
12.5°	5631.7	5593.0	5650.0	5620.3	5554.2	5396.9	5132.4	4633.1	4167.9	3955.9	3306.1
15°	5809.6	5836.9	5882.5	5964.6	5935.0	5875.7	5583.8	5152.9	4612.5	4373.1	3504.4
17.5°	6083.2	6007.9	6062.7	6165.3	6247.3	6220.0	6053.5	5529.1	5052.6	4758.5	3771.2
20°	6274.7	6231.4	6258.7	6377.3	6438.9	6593.9	6507.3	6021.6	5474.4	5164.3	4085.8
22.5°	6821.9	6758.1	6669.1	6687.4	6710.2	6819.6	6840.2	6562.0	5964.6	5636.3	4384.5
25°	7496.8	7437.5	7332.6	7225.5	7159.4	7138.8	7209.5	6986.1	6434.3	6094.6	4706.0
27.5°	8240.1	8139.8	8073.7	7852.5	7674.6	7647.3	7613.1	7492.2	6990.6	6623.5	5068.6
30°	8962.9	8883.1	8794.2	8440.7	8256.1	8226.4	8057.7	8091.9	7594.8	7186.7	5479.0
32.5°	9510.1	9516.9	9314.0	9047.2	8874.0	8716.6	8655.1	8753.1	8370.1	8041.7	5937.3
35°	9952.4	9972.9	9779.1	9537.4	9350.5	9459.9	9432.6	9478.2	9295.8	8894.5	6470.8
37.5°	10383.3	10280.7	10073.3	9957.0	9858.9	10039.1	10271.6	10310.4	10344.6	9872.6	7091.0
40°	10454.0	10463.1	10342.3	10424.4	10301.3	10572.6	11113.0	11062.8	11201.9	10789.2	7763.6
42.5°	10353.7	10374.2	10422.1	10538.4	10834.8	11160.8	11963.4	11758.2	11926.9	11559.9	8417.9
45°	10189.5	10105.2	10164.5	10606.8	11119.8	11844.9	12740.9	12581.3	12526.6	12218.8	9197.7
47.5°	9405.2	9491.8	9676.5	10221.5	10992.1	11963.4	13292.7	13256.2	13420.4	13203.8	9906.8
50°	8317.6	8283.4	8639.1	9252.4	10246.5	11730.9	13263.1	13593.7	13947.1	13646.1	10223.7
52.5°	6229.1	6411.5	6717.0	7478.6	8896.8	10463.1	12615.5	13167.3	13454.6	13390.7	9968.4
55°	3937.6	3992.4	4177.1	5082.2	6359.1	8397.4	10814.3	12093.4	12606.4	12845.8	9733.5
57.5°	1913.0	1810.4	2036.1	2763.4	3673.2	5647.7	8340.4	10533.8	11648.8	12082.0	9222.8
60°	998.7	1037.4	1126.3	1386.3	1899.3	2932.1	5198.5	7020.3	8723.5	9389.2	6990.6
62.5°	827.7	841.3	900.6	1030.6	1263.1	1687.2	2654.0	3422.4	4448.4	5048.0	3976.4
65°	702.3	709.1	772.9	859.6	1007.8	1187.9	1365.7	1429.6	1730.6	1776.2	1413.6
67.5°	586.0	592.8	661.2	743.3	839.1	886.9	932.5	928.0	962.2	948.5	946.2
70°	451.4	458.3	529.0	615.6	663.5	636.1	777.5	809.4	823.1	834.5	852.7
72.5°	326.0	339.7	394.4	456.0	430.9	494.8	640.7	688.6	706.8	713.7	736.5
75°	237.1	241.7	255.4	237.1	273.6	344.3	451.4	510.7	533.5	540.4	574.6
77.5°	104.9	107.2	109.4	136.8	175.6	214.3	269.0	316.9	348.8	358.0	367.1
80°	54.7	57.0	70.7	93.5	125.4	157.3	196.1	223.4	244.0	246.2	255.4
82.5°	34.2	36.5	50.2	66.1	88.9	116.3	143.6	166.4	182.4	184.7	187.0
85°	16.0	20.5	29.6	41.0	59.3	75.2	77.5	66.1	70.7	73.0	68.4
87.5°	4.6	6.8	9.1	6.8	9.1	9.1	11.4	13.7	13.7	13.7	16.0
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°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2606.1	2585.6	2505.8	2476.1	2398.6	2412.3	2371.3	2369.0	2359.9	2357.6	2355.3
5°	2669.9	2606.1	2510.3	2437.4	2394.1	2389.5	2359.9	2359.9	2369.0	2375.8	2359.9
7.5°	2774.8	2701.9	2540.0	2471.6	2432.8	2426.0	2405.5	2389.5	2410.0	2403.2	2384.9
10°	2895.7	2768.0	2597.0	2537.7	2473.9	2457.9	2457.9	2464.7	2430.5	2441.9	2423.7
12.5°	3030.2	2859.2	2669.9	2601.5	2526.3	2517.2	2512.6	2462.5	2480.7	2471.6	2426.0
15°	3201.2	2964.1	2763.4	2647.1	2583.3	2542.3	2483.0	2473.9	2462.5	2439.7	2419.1
17.5°	3385.9	3078.1	2806.7	2660.8	2565.1	2535.4	2489.8	2441.9	2407.7	2412.3	2396.3
20°	3543.2	3182.9	2822.7	2674.5	2551.4	2494.4	2423.7	2394.1	2357.6	2355.3	2353.0
22.5°	3730.2	3324.3	2845.5	2638.0	2510.3	2451.1	2403.2	2350.7	2325.7	2293.7	2309.7
25°	3953.6	3379.0	2850.1	2617.5	2480.7	2375.8	2350.7	2293.7	2284.6	2239.0	2248.1
27.5°	4115.5	3408.7	2813.6	2553.7	2412.3	2332.5	2286.9	2245.8	2229.9	2195.7	2186.6
30°	4332.1	3454.3	2736.1	2473.9	2343.9	2255.0	2227.6	2218.5	2172.9	2136.4	2131.8
32.5°	4578.3	3483.9	2685.9	2391.8	2273.2	2204.8	2218.5	2175.2	2118.2	2086.2	2077.1
35°	4774.4	3495.3	2560.5	2298.3	2225.3	2182.0	2166.0	2156.9	2074.8	2045.2	2022.4
37.5°	5073.1	3470.2	2455.6	2232.2	2172.9	2156.9	2143.2	2081.7	1988.2	1944.9	1913.0
40°	5422.0	3463.4	2321.1	2138.7	2122.7	2141.0	2099.9	2004.2	1874.2	1826.3	1803.5
42.5°	5757.1	3511.3	2236.7	2088.5	2068.0	2074.8	2017.8	1874.2	1810.4	1783.0	1746.5
45°	6318.0	3611.6	2097.6	2011.0	2001.9	1997.3	1928.9	1778.4	1742.0	1707.8	1700.9
47.5°	6824.2	3545.5	2008.7	1931.2	1940.3	1915.2	1769.3	1721.4	1680.4	1646.2	1634.8
50°	6853.8	3388.2	1883.3	1869.6	1871.9	1828.6	1689.5	1657.6	1605.2	1582.4	1566.4
52.5°	6698.8	3130.5	1767.0	1771.6	1778.4	1707.8	1591.5	1568.7	1525.4	1493.4	1484.3
55°	6263.3	2729.2	1653.0	1671.3	1689.5	1555.0	1518.5	1461.5	1427.3	1381.7	1384.0
57.5°	5517.7	2198.0	1493.4	1523.1	1561.8	1413.6	1386.3	1315.6	1265.4	1228.9	1224.4
60°	3698.2	1564.1	1254.0	1265.4	1352.1	1292.8	1290.5	1219.8	1151.4	1119.5	1101.3
62.5°	2182.0	1194.7	1083.0	1071.6	1069.3	1103.5	1160.5	1135.5	1046.5	985.0	1003.2
65°	1142.3	1032.9	1007.8	969.0	946.2	937.1	980.4	991.8	932.5	866.4	861.9
67.5°	959.9	959.9	939.4	925.7	893.8	855.0	827.7	791.2	782.1	763.8	741.0
70°	873.3	896.1	889.2	857.3	829.9	786.6	715.9	656.7	599.7	579.1	592.8
72.5°	761.5	784.3	784.3	768.4	731.9	665.8	597.4	529.0	481.1	444.6	440.0
75°	586.0	597.4	624.7	606.5	558.6	517.6	446.9	376.2	330.6	296.4	289.6
77.5°	373.9	392.2	392.2	389.9	355.7	316.9	271.3	221.2	187.0	161.9	155.0
80°	248.5	259.9	269.0	259.9	237.1	207.5	173.3	139.1	114.0	93.5	88.9
82.5°	182.4	196.1	202.9	193.8	171.0	148.2	123.1	98.0	73.0	57.0	52.4
85°	70.7	73.0	82.1	98.0	95.8	93.5	75.2	54.7	41.0	29.6	27.4
87.5°	18.2	16.0	18.2	18.2	16.0	13.7	13.7	13.7	13.7	6.8	9.1
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)