

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: P302912

Luminaire Tested: **GLNA-AF-06-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-T4W-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20165.9 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

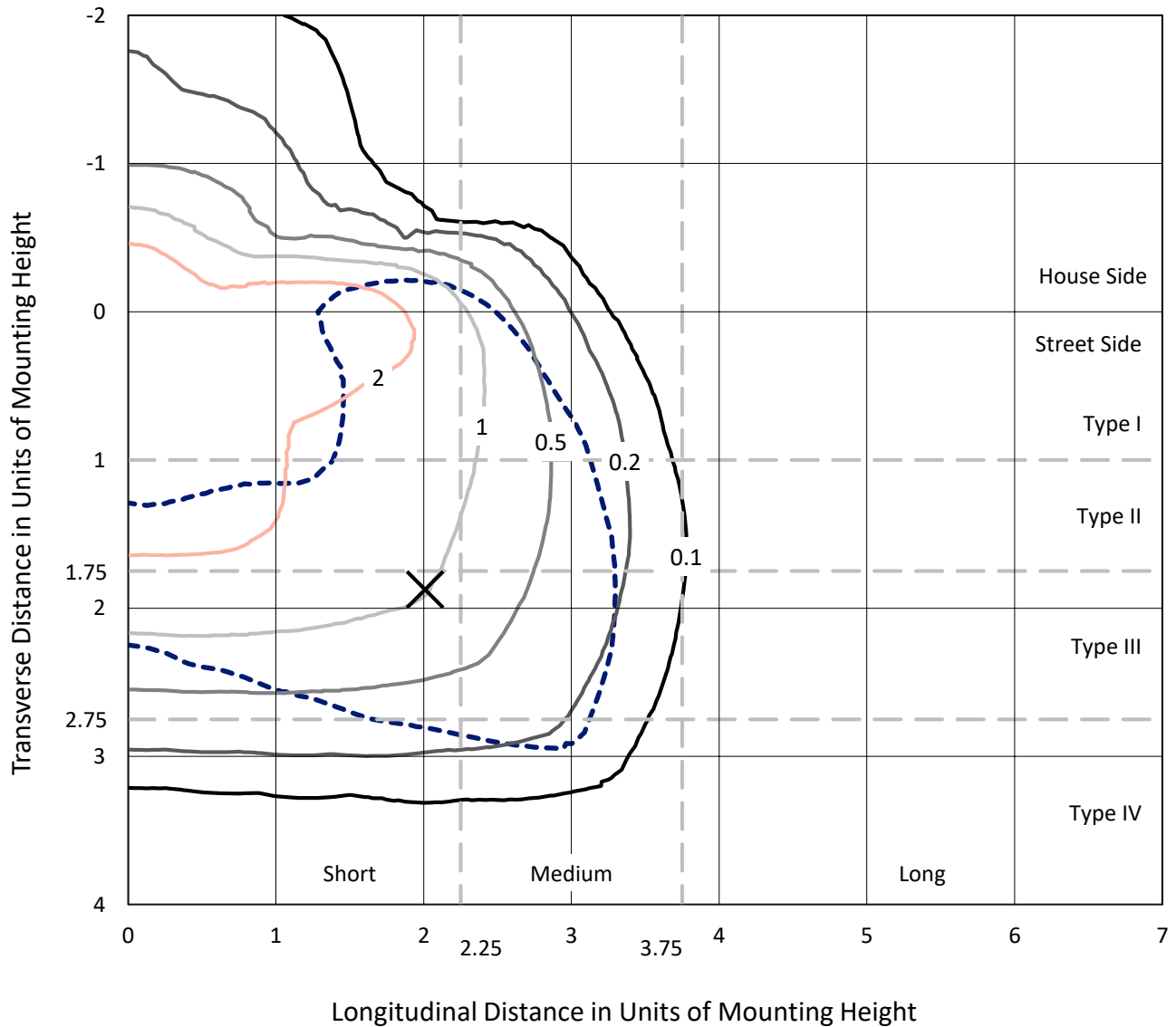
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

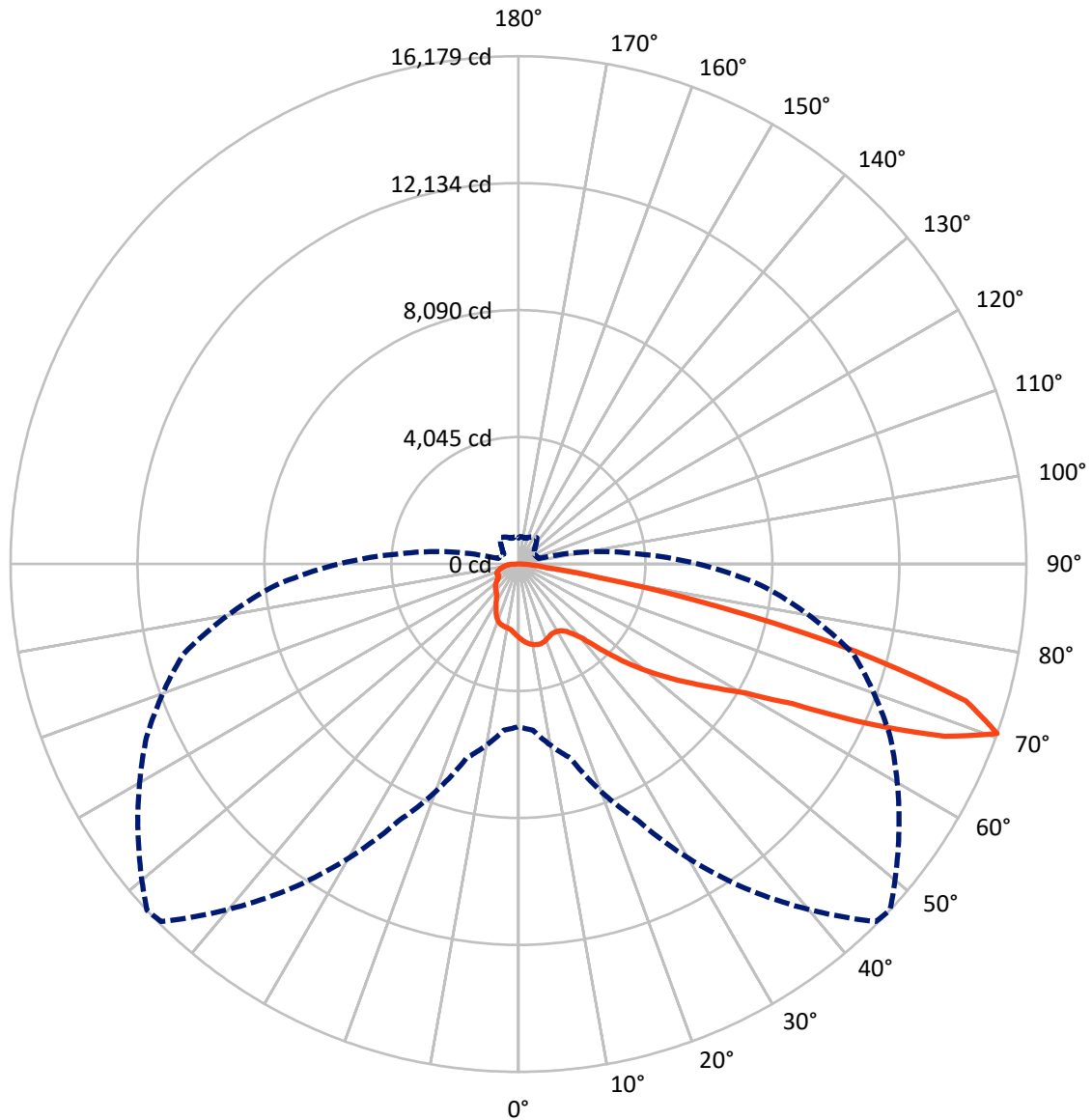
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4207.0	0.0	4207.0
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	15958.9	0.0	15958.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	20165.9	0.0	20165.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.2	1.1
10°-20°	657.7	3.3
20°-30°	971.3	4.8
30°-40°	1411.8	7.0
40°-50°	2540.7	12.6
50°-60°	4401.5	21.8
60°-70°	6282.2	31.2
70°-80°	3224.9	16.0
80°-90°	451.5	2.2
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°	20165.9	100.0
0°-180°	20165.9	100.0

**Coefficient of Utilization**



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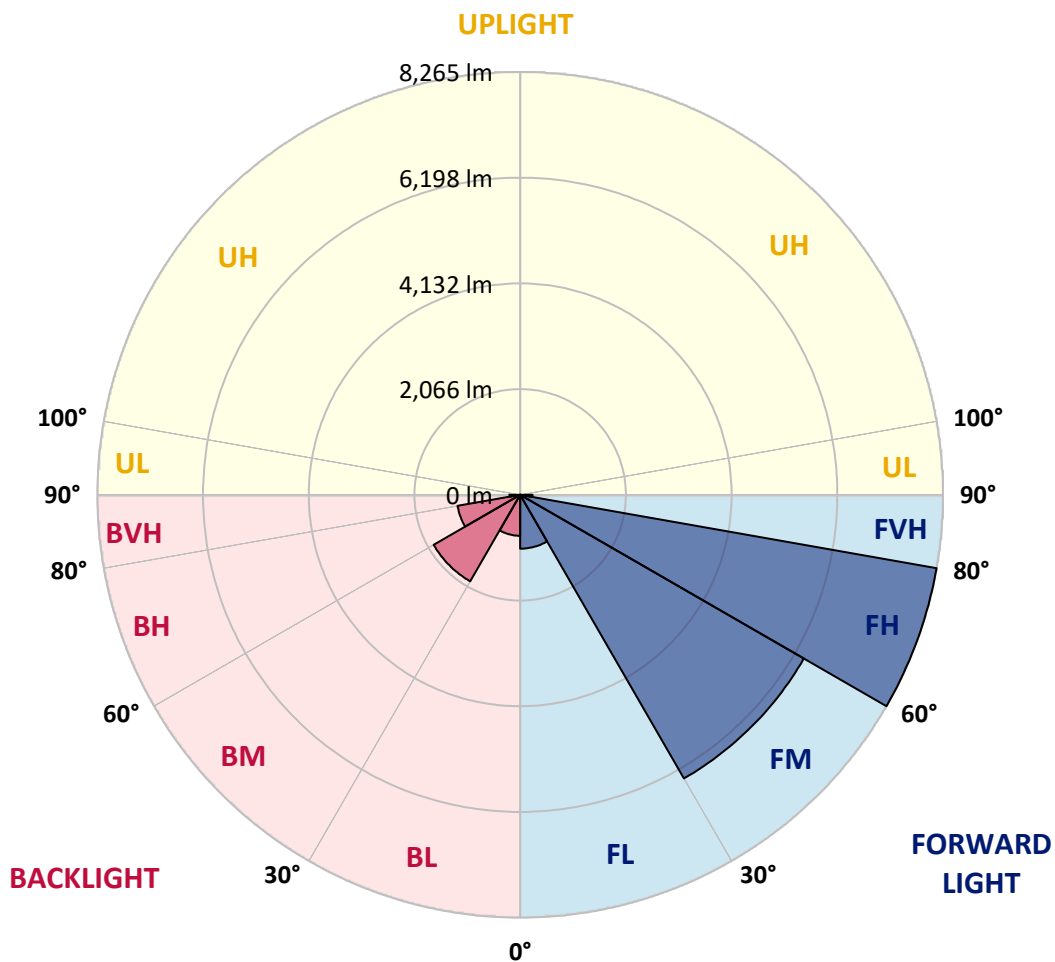
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1052.2	5.2			
FM	(30°-60°)	6401.2	31.7			
FH	(60°-80°)	8264.5	41.0			G4/12000
FVH	(80°-90°)	240.9	1.2			G3/500
BL	(0°-30°)	801.0	4.0	B2/1000		
BM	(30°-60°)	1952.8	9.7	B2/2500		
BH	(60°-80°)	1242.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	210.6	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8
2.5°	2477.3	2472.4	2470.5	2466.6	2461.7	2436.9	2432.0	2414.4	2390.0	2364.3	2337.9
5°	2640.2	2639.3	2628.2	2608.6	2577.4	2523.3	2510.6	2467.5	2409.5	2353.5	2297.8
7.5°	2783.3	2774.5	2754.0	2714.5	2659.8	2586.1	2568.6	2508.6	2429.1	2352.5	2276.9
10°	2888.2	2883.3	2838.3	2784.3	2712.6	2631.1	2610.6	2543.8	2456.5	2359.4	2265.2
12.5°	2948.2	2938.4	2886.2	2821.7	2736.4	2656.9	2636.0	2568.6	2470.5	2359.4	2248.6
15°	2944.2	2937.4	2885.3	2814.6	2728.5	2658.8	2640.2	2572.5	2467.5	2349.6	2227.1
17.5°	2865.7	2868.6	2824.7	2754.9	2684.2	2631.1	2614.5	2551.9	2447.7	2330.0	2201.7
20°	2728.5	2742.2	2712.6	2651.0	2611.6	2575.4	2564.6	2511.5	2417.4	2301.7	2174.0
22.5°	2591.0	2603.7	2592.0	2539.9	2534.0	2512.5	2506.6	2468.5	2391.0	2284.1	2157.3
25°	2490.0	2501.8	2499.8	2454.5	2472.4	2471.5	2466.6	2447.7	2385.1	2284.1	2160.3
27.5°	2462.7	2466.6	2462.7	2421.3	2445.7	2465.6	2461.7	2458.4	2402.7	2312.4	2197.8
30°	2556.8	2551.0	2520.3	2436.9	2459.7	2487.1	2483.2	2485.1	2455.5	2387.1	2281.2
32.5°	2932.5	2905.8	2809.7	2575.4	2515.4	2530.1	2532.1	2564.6	2569.5	2501.8	2410.5
35°	3494.6	3465.2	3340.5	2946.2	2689.1	2638.3	2638.3	2687.2	2716.5	2666.6	2611.6
37.5°	4090.2	4057.6	3991.1	3460.4	3054.0	2825.6	2820.7	2855.0	2897.0	2909.0	2922.7
40°	4767.0	4732.7	4751.3	4037.1	3563.3	3150.2	3080.4	3056.0	3169.7	3245.3	3355.4
42.5°	5507.9	5491.9	5498.8	4679.6	4143.0	3636.0	3536.9	3410.2	3547.7	3681.9	3912.6
45°	6193.5	6207.1	6200.3	5367.5	4788.8	4228.4	4123.4	3878.1	4012.7	4243.0	4619.0
47.5°	6794.0	6737.0	6825.3	6118.8	5511.8	4891.8	4762.1	4433.6	4569.8	4854.3	5490.0
50°	7522.9	7515.0	7385.7	7121.8	6385.7	5557.8	5388.0	5007.4	5219.2	5614.8	6588.0
52.5°	8289.2	8146.8	8028.2	7901.5	7313.0	6240.7	6032.5	5579.3	5982.6	6479.9	7926.2
55°	8446.0	8382.4	8529.4	8742.5	8206.8	6950.0	6707.6	6296.4	6842.2	7469.1	9469.4
57.5°	8781.6	8780.6	9084.9	9464.5	9126.9	7702.4	7458.0	7162.8	7808.3	8602.0	11107.7
60°	9008.3	9071.9	9637.2	10373.9	10030.5	8571.7	8346.9	8162.5	8907.3	9868.5	12634.2
62.5°	9126.9	9213.3	9984.5	10742.8	11307.8	10018.8	9794.3	9528.4	10361.2	11257.9	13527.0
65°	8633.6	8803.1	9930.5	11061.8	12426.3	12364.4	12263.4	11796.5	12179.0	12355.6	13204.4
67.5°	7267.7	7441.4	8754.2	10764.3	13225.0	14627.0	14648.5	13850.9	13297.6	12449.8	11101.8
70°	5178.2	5314.4	6400.7	9025.0	12616.6	16105.3	16179.0	14797.4	13074.8	11040.9	7756.5
72.5°	2458.4	2541.8	3570.2	5873.8	10011.9	14756.4	14898.8	13588.9	11117.5	8174.2	4231.3
75°	903.5	929.0	1206.6	2498.8	5807.0	10882.2	11050.0	9741.1	7369.7	4069.7	1611.9
77.5°	541.5	558.2	677.1	1054.7	2284.1	6220.2	6468.1	5297.7	3220.9	1514.8	792.8
80°	378.6	390.3	485.5	656.2	1079.2	2370.4	2591.0	2162.2	1283.1	958.6	576.7
82.5°	256.1	262.0	341.5	443.5	717.2	846.5	913.3	961.5	865.4	713.3	365.9
85°	167.8	173.7	231.7	292.3	456.2	437.6	447.4	566.0	631.8	484.5	203.0
87.5°	96.1	100.0	139.5	156.1	223.8	185.4	187.4	298.1	404.4	326.8	123.5
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°	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8
2.5°	2331.0	2318.3	2290.0	2272.0	2255.4	2251.5	2244.7	2243.7	2242.7	2242.7	2239.8
5°	2278.9	2257.4	2213.4	2188.6	2168.1	2166.1	2165.2	2170.1	2172.0	2174.0	2171.0
7.5°	2245.7	2216.3	2161.3	2126.1	2101.6	2095.4	2105.5	2128.0	2142.7	2148.6	2145.6
10°	2225.1	2188.6	2125.1	2086.6	2066.1	2063.2	2075.9	2102.6	2132.9	2144.6	2143.7
12.5°	2201.7	2160.3	2092.5	2052.4	2040.7	2046.6	2063.2	2087.6	2119.2	2137.8	2138.8
15°	2177.9	2130.0	2060.3	2025.1	2020.2	2028.0	2043.6	2062.2	2086.6	2105.5	2107.5
17.5°	2149.5	2099.4	2029.9	1993.5	1989.5	1993.5	1994.4	2004.2	2020.2	2037.8	2042.7
20°	2119.2	2068.1	1995.4	1959.2	1941.6	1926.0	1908.1	1910.0	1914.9	1932.8	1936.8
22.5°	2097.4	2046.6	1969.0	1918.8	1871.9	1824.7	1789.5	1784.6	1786.6	1801.2	1806.1
25°	2099.4	2045.6	1962.2	1875.8	1772.9	1697.3	1650.0	1642.2	1641.2	1652.0	1659.1
27.5°	2137.8	2083.7	1987.6	1831.5	1665.0	1552.9	1503.1	1497.2	1489.4	1492.3	1500.1
30°	2223.2	2173.0	2049.5	1786.6	1548.0	1411.8	1359.7	1353.8	1343.1	1338.2	1344.1
32.5°	2362.3	2321.2	2139.8	1743.2	1431.4	1291.0	1238.2	1225.5	1218.6	1212.8	1217.6
35°	2594.0	2576.4	2260.3	1696.3	1328.4	1197.8	1149.9	1130.3	1120.5	1131.3	1139.1
37.5°	2956.9	2966.7	2418.3	1622.7	1248.9	1136.2	1095.8	1073.3	1058.6	1067.4	1076.2
40°	3471.1	3478.0	2593.0	1518.7	1180.2	1099.7	1056.7	1036.2	1015.3	999.7	998.7
42.5°	4145.9	4076.5	2764.7	1406.0	1100.7	1077.2	1029.3	1003.6	972.3	929.0	920.2
45°	4946.5	4702.4	2895.0	1276.3	1011.4	1049.8	998.7	963.5	914.3	867.4	862.5
47.5°	5868.9	5374.3	2958.9	1142.0	928.0	1009.4	961.5	905.5	843.6	820.1	817.2
50°	6995.0	6172.0	2989.2	1011.4	855.6	956.6	907.4	841.6	789.8	784.9	782.0
52.5°	8277.5	7131.5	2999.3	904.5	795.7	887.9	863.5	799.6	758.2	762.5	762.5
55°	9619.6	8122.4	2865.7	827.0	740.6	817.2	833.8	783.0	748.4	764.4	770.3
57.5°	10851.6	9000.5	2445.7	767.3	688.8	763.4	823.1	798.6	775.2	838.7	842.6
60°	11797.5	9519.3	1826.6	713.3	650.4	744.5	851.7	858.6	864.4	1016.3	1037.1
62.5°	11995.6	9346.9	1255.8	671.2	632.8	760.5	903.5	904.5	897.7	1003.6	1016.3
65°	11086.2	8254.7	913.3	647.4	618.1	788.8	947.9	927.0	882.0	962.5	938.7
67.5°	8804.0	6219.2	760.5	629.8	596.6	786.9	994.8	947.9	873.2	943.0	904.5
70°	5714.8	3760.5	677.1	615.2	570.9	749.4	1022.1	945.9	847.5	877.1	831.9
72.5°	2788.2	1681.6	621.0	593.7	544.5	697.6	1021.2	928.0	821.1	819.1	794.7
75°	1090.9	770.3	569.9	561.1	499.5	638.6	993.8	902.6	789.8	758.2	749.4
77.5°	638.6	549.4	505.4	513.2	445.4	579.7	953.7	858.6	746.5	709.3	699.6
80°	465.0	411.2	430.8	443.5	380.6	521.0	899.6	804.5	698.6	717.2	703.5
82.5°	298.1	264.9	349.3	362.0	317.0	461.1	840.7	747.5	630.8	572.8	559.1
85°	152.2	167.8	260.0	275.7	244.4	378.6	769.3	672.2	554.2	476.7	484.5
87.5°	85.4	114.7	165.8	185.4	172.7	291.3	624.0	554.2	452.3	367.9	323.9
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)