

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: P191442

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-T3-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19849.3 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

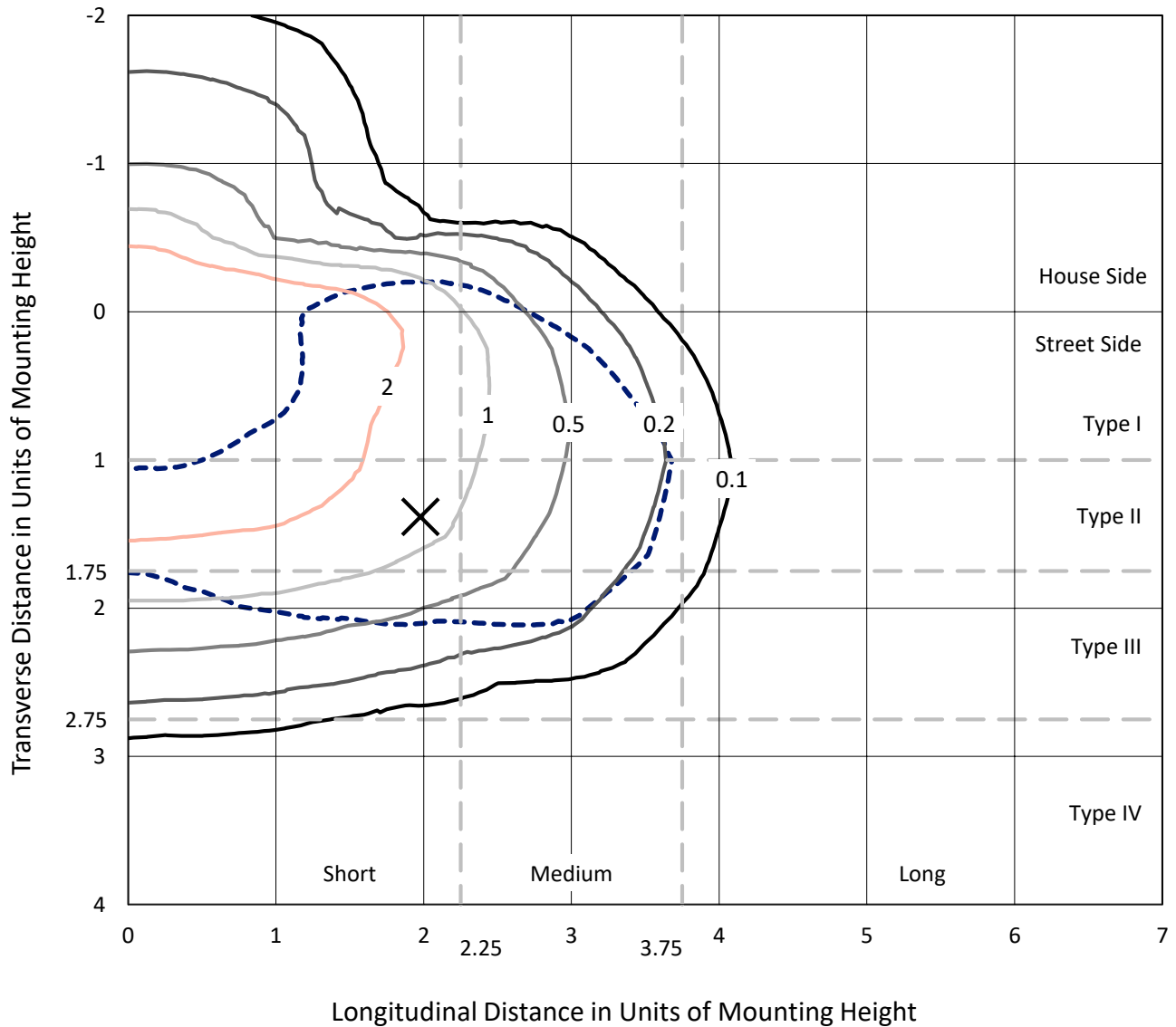
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

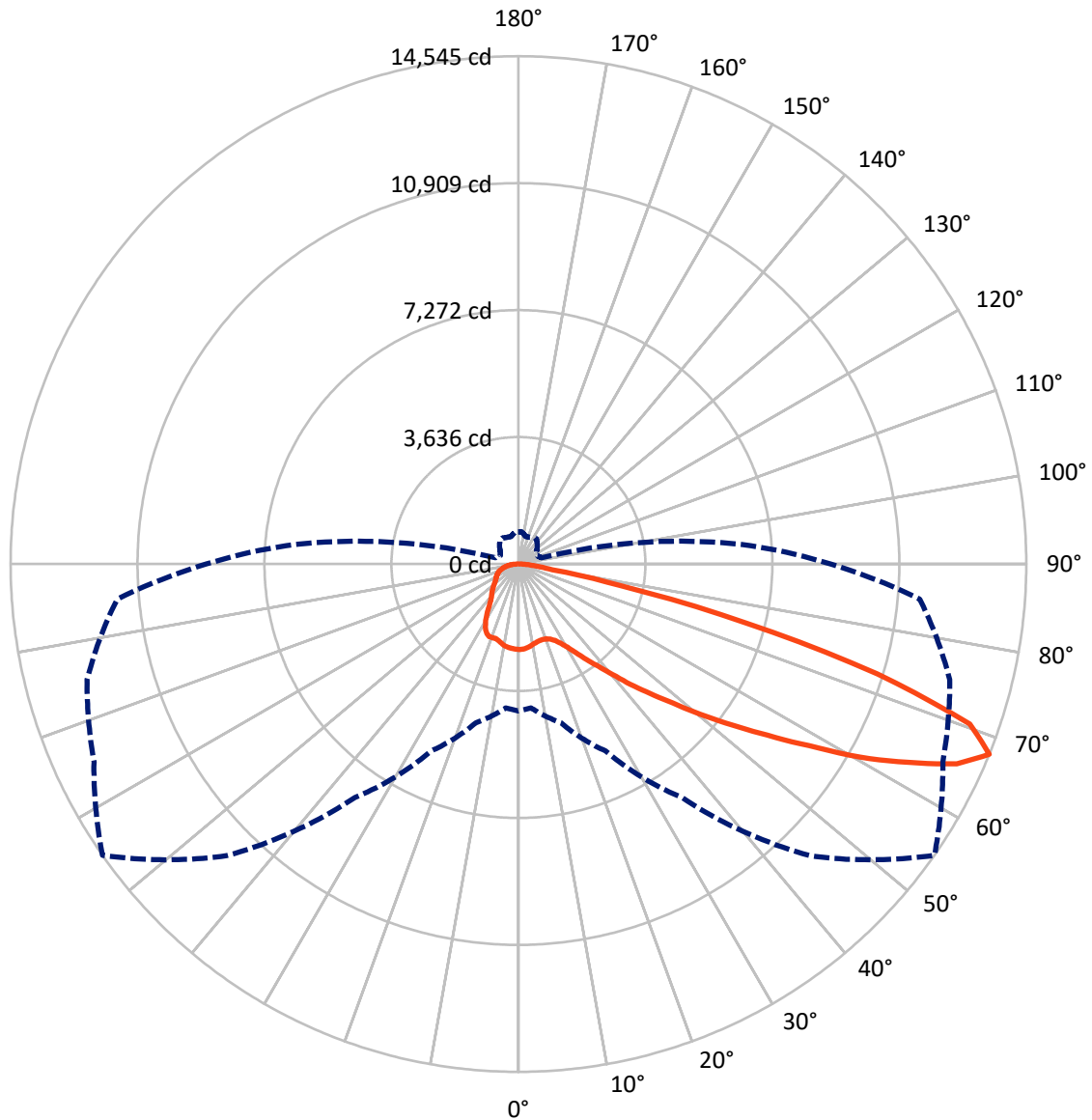
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4287.9	0.0	4287.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	15561.5	0.0	15561.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	19849.3	0.0	19849.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.5	1.2
10°-20°	647.0	3.3
20°-30°	1083.9	5.5
30°-40°	1782.3	9.0
40°-50°	3000.2	15.1
50°-60°	4722.1	23.8
60°-70°	5635.4	28.4
70°-80°	2419.9	12.2
80°-90°	329.9	1.7
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°	19849.3	100.0
0°-180°	19849.3	100.0



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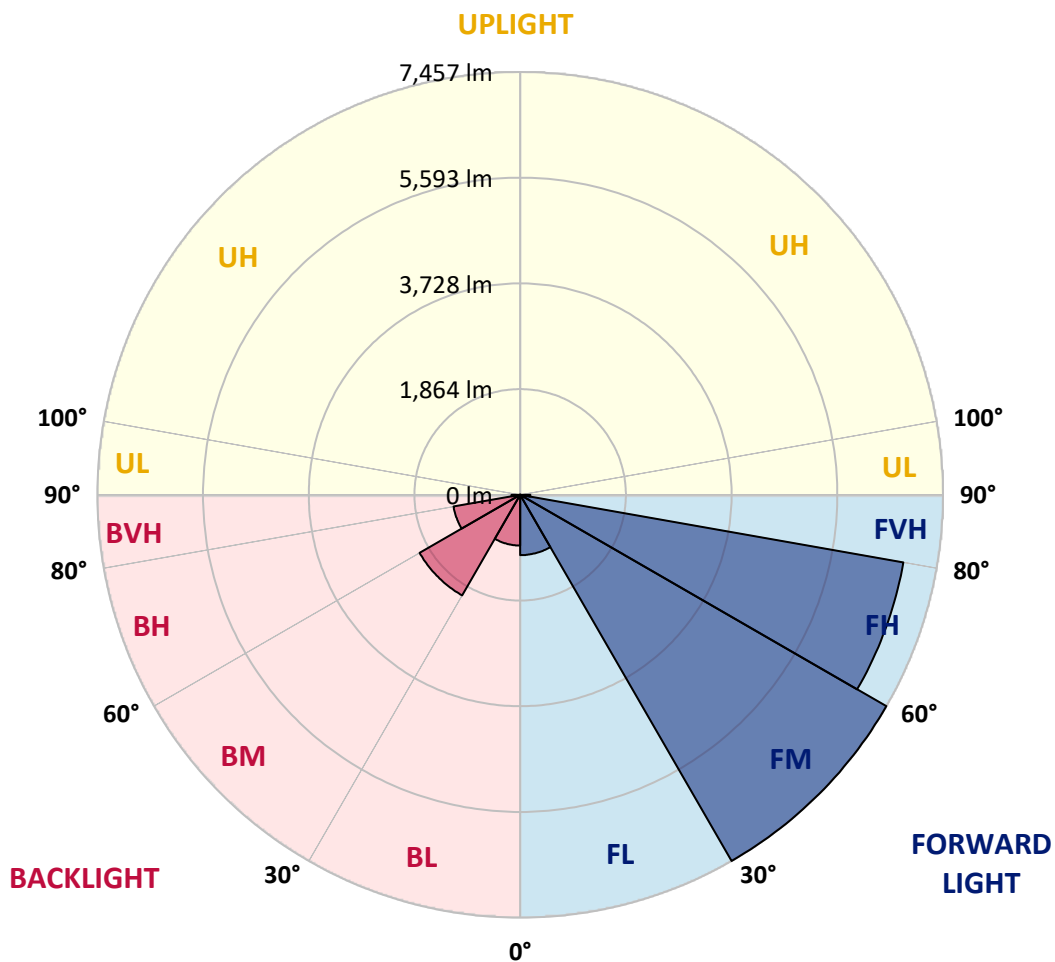
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.0	5.4			
FM (30°-60°)	7456.9	37.6			
FH (60°-80°)	6862.0	34.6			G3/7500
FVH (80°-90°)	178.6	0.9			G2/225
BL (0°-30°)	895.4	4.5	B2/1000		
BM (30°-60°)	2047.8	10.3	B2/2500		
BH (60°-80°)	1193.3	6.0	B3/2500		G3/2500
BVH (80°-90°)	151.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6
2.5°	2426.5	2427.5	2429.4	2437.1	2443.8	2441.9	2442.8	2439.0	2438.1	2432.3	2438.1
5°	2395.9	2398.7	2399.7	2412.1	2419.8	2421.7	2418.9	2414.1	2408.3	2402.6	2405.5
7.5°	2325.9	2333.6	2334.5	2351.8	2364.2	2380.5	2381.5	2382.5	2379.6	2375.7	2381.5
10°	2281.8	2283.7	2282.7	2295.2	2304.8	2323.0	2333.6	2351.8	2359.4	2361.4	2365.2
12.5°	2278.9	2277.0	2274.1	2274.1	2271.3	2278.9	2298.1	2323.9	2342.1	2348.0	2352.7
15°	2309.6	2308.6	2299.1	2284.7	2266.4	2260.7	2277.0	2305.7	2329.7	2342.1	2347.0
17.5°	2378.6	2372.8	2357.5	2325.0	2285.6	2270.2	2272.2	2296.1	2323.9	2340.3	2345.0
20°	2505.2	2505.2	2472.6	2411.2	2341.2	2304.8	2287.5	2301.9	2328.7	2350.8	2357.5
22.5°	2723.7	2725.7	2671.0	2570.4	2452.4	2374.8	2331.6	2328.7	2360.4	2385.3	2393.0
25°	3033.5	3025.8	2949.1	2805.2	2625.9	2497.5	2422.8	2405.5	2432.3	2460.1	2469.7
27.5°	3393.9	3366.1	3275.0	3101.5	2869.5	2681.6	2566.5	2538.8	2564.6	2596.2	2605.9
30°	3750.5	3721.8	3613.5	3423.6	3165.7	2928.0	2763.1	2718.0	2754.4	2799.5	2805.2
32.5°	4107.2	4107.2	3986.4	3765.0	3484.1	3222.3	3024.8	2971.1	3031.5	3086.1	3098.6
35°	4533.8	4535.8	4418.8	4152.3	3850.3	3573.2	3355.6	3316.2	3407.3	3445.7	3475.4
37.5°	5058.3	5068.8	4918.2	4596.1	4265.4	3974.0	3715.1	3661.3	3752.5	3856.9	3952.9
40°	5624.9	5638.3	5472.5	5075.5	4744.8	4439.9	4159.9	4063.1	4214.6	4414.0	4537.7
42.5°	6165.6	6234.6	6074.5	5666.1	5310.4	4995.0	4711.2	4570.2	4760.1	5061.2	5168.6
45°	6947.0	6996.8	6717.8	6347.7	6013.1	5660.4	5284.6	5135.9	5401.5	5781.1	5803.2
47.5°	7467.5	7430.2	7288.3	7058.2	6846.3	6516.5	5950.8	5787.9	6140.7	6587.4	6463.7
50°	7744.7	7756.1	7737.0	7750.4	7758.1	7551.0	6767.6	6544.3	6965.2	7505.0	7220.2
52.5°	8003.5	7926.7	7990.1	8304.5	8684.1	8607.5	7656.4	7423.5	7849.1	8523.1	8019.8
55°	7997.7	7880.8	8086.9	8642.0	9465.6	9553.7	8654.5	8386.0	8783.9	9615.1	8867.3
57.5°	7714.9	7720.6	8038.0	8764.7	10010.1	10443.4	9812.7	9409.9	9775.2	10721.4	9641.0
60°	7325.7	7378.4	7835.7	8744.6	10446.4	11173.1	11233.4	10513.5	10746.4	11727.2	10281.5
62.5°	6697.7	6753.3	7384.2	8535.6	10380.2	11875.8	12518.2	11765.6	11761.7	12337.0	10469.4
65°	5707.3	5691.0	6353.5	7754.2	9825.0	12395.4	13794.2	12848.0	12526.7	12346.5	10091.6
67.5°	4208.8	4136.0	4704.4	5905.8	8166.4	11813.4	14544.9	13411.7	12787.6	11534.5	8937.3
70°	2184.0	2111.2	2571.3	3448.6	5370.8	9220.2	13713.7	13120.3	12211.4	9668.8	7001.6
72.5°	933.9	921.4	1108.3	1512.8	2598.2	5318.1	10753.2	11356.2	10478.0	7203.9	4813.8
75°	628.0	624.1	694.1	824.5	1168.7	2158.1	6729.4	8061.1	7666.0	4466.7	2707.4
77.5°	492.8	487.9	529.2	592.5	757.4	851.4	2986.4	4327.7	4005.6	1944.3	1185.0
80°	385.4	381.6	407.4	442.0	544.5	536.8	982.7	1721.8	1332.6	744.9	576.2
82.5°	303.9	303.9	325.0	326.0	386.4	366.2	512.9	758.3	665.3	434.3	352.8
85°	278.0	278.0	300.1	243.6	252.2	231.1	318.3	449.7	421.9	178.3	153.4
87.5°	139.9	136.2	252.2	215.7	137.1	122.8	155.3	217.6	233.9	98.7	76.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6
2.5°	2436.2	2435.1	2437.1	2438.1	2445.8	2456.3	2461.0	2467.8	2471.7	2469.7
5°	2407.4	2409.3	2416.9	2422.8	2436.2	2453.3	2463.0	2470.6	2477.4	2474.5
7.5°	2383.4	2388.2	2399.7	2404.5	2412.1	2416.9	2416.0	2418.9	2424.6	2417.9
10°	2370.0	2375.7	2384.4	2377.6	2359.4	2333.6	2309.6	2297.1	2300.9	2296.1
12.5°	2356.6	2364.2	2357.5	2325.9	2275.0	2241.5	2223.3	2225.2	2233.8	2235.8
15°	2348.9	2351.8	2323.0	2263.6	2211.8	2207.0	2216.6	2214.7	2215.6	2215.6
17.5°	2348.9	2341.2	2287.5	2228.1	2206.0	2197.4	2167.7	2130.3	2114.0	2108.2
20°	2361.4	2341.2	2276.1	2236.7	2188.8	2115.0	2036.4	1967.3	1936.7	1928.1
22.5°	2398.7	2364.2	2308.6	2240.6	2104.4	1980.7	1856.1	1773.7	1718.0	1708.4
25°	2474.5	2436.2	2372.8	2189.7	1970.2	1793.7	1651.9	1559.9	1504.2	1496.6
27.5°	2606.8	2581.8	2407.4	2077.6	1791.9	1603.0	1471.6	1400.7	1359.5	1356.6
30°	2806.2	2793.8	2390.1	1911.7	1572.3	1417.9	1354.7	1313.5	1282.8	1281.9
32.5°	3124.5	3023.8	2333.6	1709.5	1372.0	1286.7	1260.7	1235.8	1211.8	1211.8
35°	3533.9	3209.8	2226.1	1492.8	1250.1	1213.7	1181.2	1141.8	1110.2	1108.3
37.5°	4015.2	3324.9	2033.4	1318.3	1192.7	1164.8	1117.0	1058.4	1002.8	993.3
40°	4501.3	3359.4	1762.1	1210.9	1156.2	1115.9	1057.5	988.5	934.8	931.9
42.5°	4947.1	3293.3	1474.5	1137.0	1119.8	1066.1	1004.7	943.4	901.2	900.3
45°	5321.0	3121.6	1233.0	1067.0	1081.5	1021.0	966.4	916.6	883.9	877.3
47.5°	5672.8	2879.1	1063.3	993.3	1043.1	996.1	950.1	903.2	871.5	866.6
50°	6081.2	2617.3	944.4	921.4	1009.6	987.5	963.5	914.6	861.9	856.1
52.5°	6575.9	2391.0	851.4	858.1	983.7	999.0	998.0	947.3	855.2	847.5
55°	7128.1	2139.9	781.3	806.3	973.1	1020.1	1006.7	977.9	860.9	849.5
57.5°	7671.7	1846.5	732.4	767.0	957.8	1018.1	965.5	924.2	874.3	858.1
60°	8079.3	1452.5	695.1	732.4	924.2	986.5	920.3	865.7	871.5	859.0
62.5°	8106.1	1122.7	650.0	702.8	873.4	954.9	890.7	839.8	883.9	872.5
65°	7629.6	848.4	606.9	667.3	818.8	934.8	861.9	825.4	909.8	897.3
67.5°	6423.5	682.6	570.4	630.9	764.1	892.6	836.1	812.0	932.8	910.8
70°	4637.3	582.0	535.0	586.8	715.2	844.7	813.0	788.1	870.5	836.1
72.5°	2855.1	504.3	494.7	528.3	677.8	794.8	778.5	743.0	784.2	756.5
75°	1425.6	437.2	449.7	470.8	625.1	738.3	721.0	685.5	691.2	685.5
77.5°	682.6	373.9	396.9	413.2	557.0	674.0	655.8	619.3	612.6	613.6
80°	432.4	312.5	334.6	346.1	497.6	599.2	581.0	544.5	621.2	576.2
82.5°	270.4	254.1	259.8	280.9	433.3	521.5	497.6	465.0	559.9	442.9
85°	149.6	177.4	185.1	203.3	333.7	436.2	412.2	371.0	332.7	326.9
87.5°	89.2	105.5	108.3	121.7	224.3	315.4	279.0	264.6	219.5	218.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)