

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: P192242

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192242
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-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19404 lumens
Efficiency: N/A
Efficacy: 113.5 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

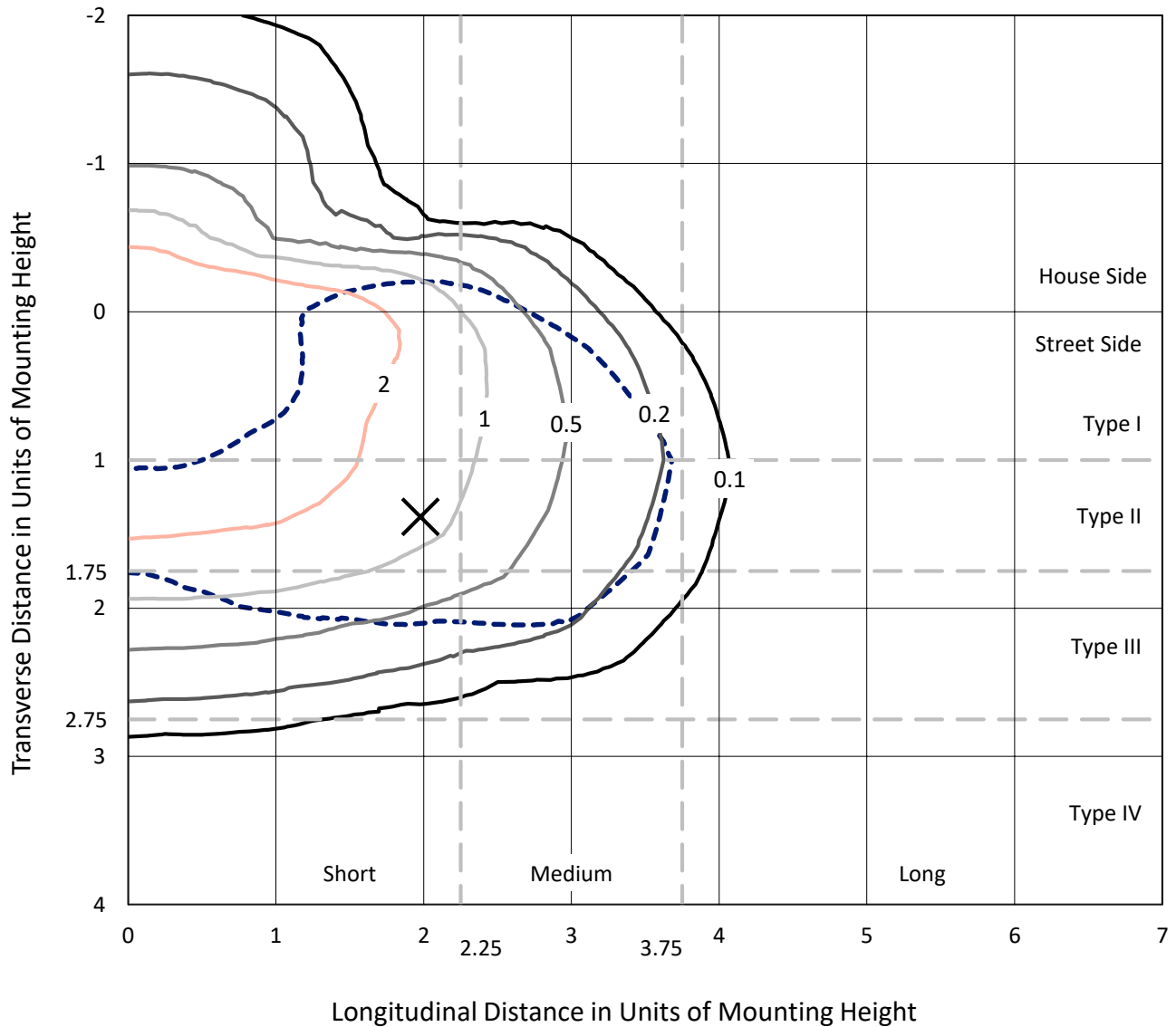
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

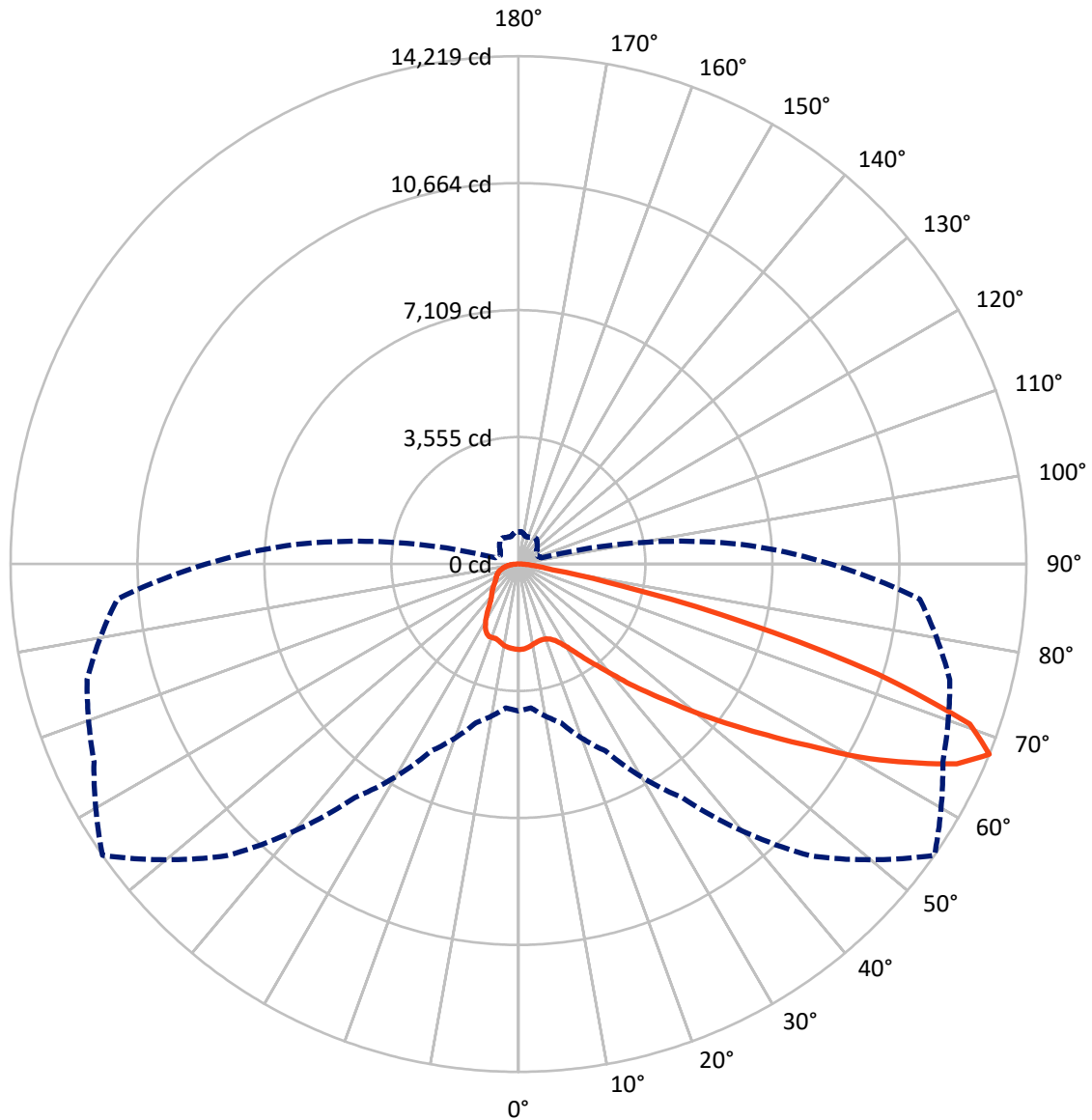
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	4191.7	0.0	4191.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15212.3	0.0	15212.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	19404.0	0.0	19404.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	1.2
10°-20°	632.5	3.3
20°-30°	1059.5	5.5
30°-40°	1742.4	9.0
40°-50°	2932.9	15.1
50°-60°	4616.2	23.8
60°-70°	5508.9	28.4
70°-80°	2365.6	12.2
80°-90°	322.5	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°	19404.0	100.0
0°-180°	19404.0	100.0



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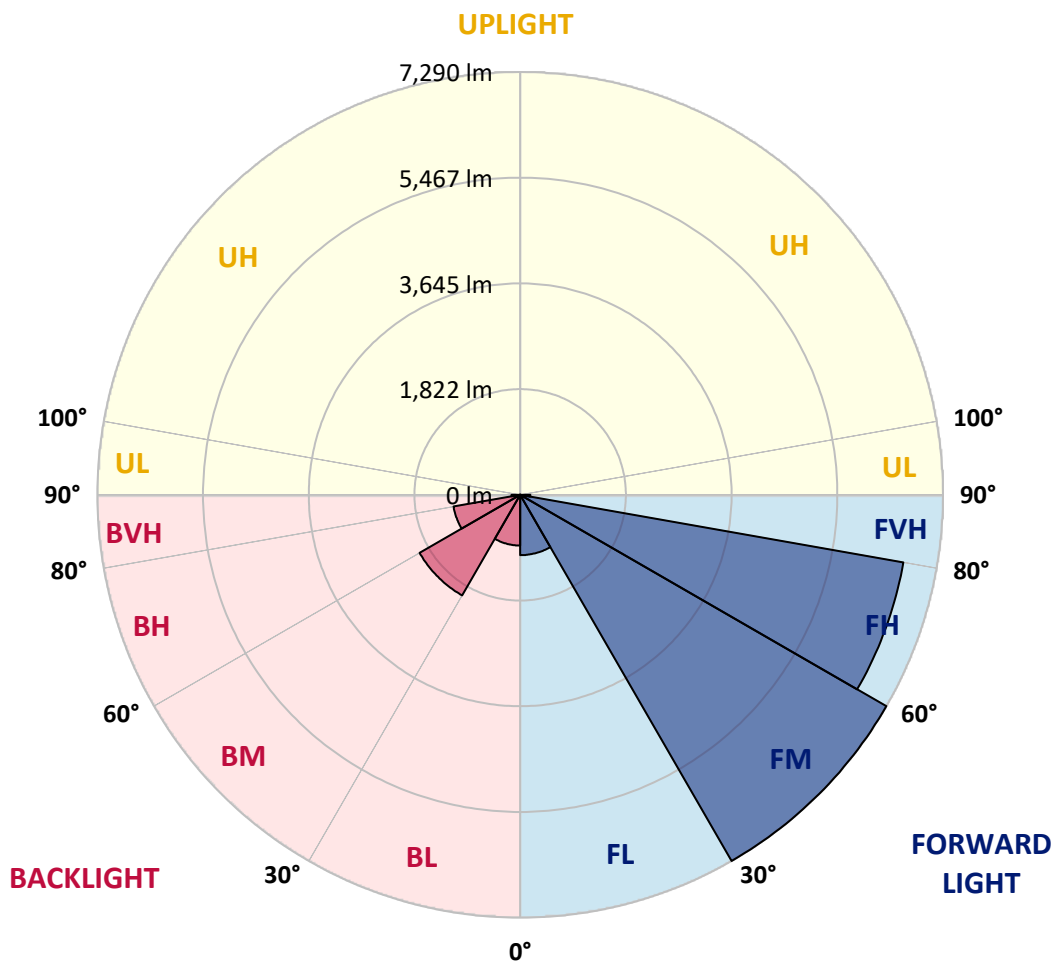
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.1	5.4			
FM (30°-60°)	7289.6	37.6			
FH (60°-80°)	6708.1	34.6			G3/7500
FVH (80°-90°)	174.6	0.9			G2/225
BL (0°-30°)	875.3	4.5	B2/1000		
BM (30°-60°)	2001.9	10.3	B2/2500		
BH (60°-80°)	1166.5	6.0	B3/2500		G3/2500
BVH (80°-90°)	147.9	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°	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7
2.5°	2372.1	2373.0	2374.9	2382.4	2389.0	2387.1	2388.0	2384.3	2383.4	2377.7	2383.4
5°	2342.1	2344.9	2345.9	2358.0	2365.5	2367.4	2364.6	2359.9	2354.3	2348.7	2351.5
7.5°	2273.7	2281.2	2282.1	2299.0	2311.2	2327.1	2328.1	2329.0	2326.2	2322.4	2328.1
10°	2230.6	2232.5	2231.5	2243.7	2253.1	2270.9	2281.2	2299.0	2306.5	2308.4	2312.1
12.5°	2227.8	2225.9	2223.1	2223.1	2220.3	2227.8	2246.5	2271.8	2289.6	2295.3	2299.9
15°	2257.8	2256.8	2247.5	2233.4	2215.6	2210.0	2225.9	2254.0	2277.4	2289.6	2294.3
17.5°	2325.2	2319.6	2304.6	2272.8	2234.3	2219.3	2221.2	2244.6	2271.8	2287.8	2292.4
20°	2449.0	2449.0	2417.1	2357.1	2288.7	2253.1	2236.2	2250.3	2276.5	2298.1	2304.6
22.5°	2662.6	2664.5	2611.1	2512.7	2397.4	2321.5	2279.3	2276.5	2307.4	2331.8	2339.3
25°	2965.4	2957.9	2882.9	2742.3	2567.0	2441.5	2368.4	2351.5	2377.7	2404.9	2414.3
27.5°	3317.8	3290.6	3201.5	3031.9	2805.1	2621.4	2508.9	2481.8	2507.1	2538.0	2547.4
30°	3666.4	3638.3	3532.4	3346.8	3094.7	2862.3	2701.1	2657.0	2692.6	2736.7	2742.3
32.5°	4015.1	4015.1	3897.0	3680.5	3405.9	3150.0	2956.9	2904.4	2963.5	3016.9	3029.1
35°	4432.1	4434.0	4319.7	4059.1	3763.9	3493.0	3280.3	3241.8	3330.9	3368.4	3397.4
37.5°	4944.8	4955.1	4807.9	4493.0	4169.7	3884.8	3631.7	3579.2	3668.3	3770.4	3864.2
40°	5498.7	5511.8	5349.7	4961.6	4638.3	4340.3	4066.6	3971.9	4120.0	4315.0	4435.9
42.5°	6027.3	6094.7	5938.2	5539.0	5191.3	4882.9	4605.5	4467.7	4653.3	4947.6	5052.6
45°	6791.1	6839.8	6567.1	6205.3	5878.2	5533.4	5166.0	5020.7	5280.3	5651.4	5673.0
47.5°	7300.0	7263.5	7124.8	6899.8	6692.7	6370.3	5817.3	5658.0	6002.9	6439.6	6318.7
50°	7570.9	7582.1	7563.4	7576.5	7584.0	7381.6	6615.8	6397.5	6808.9	7336.6	7058.2
52.5°	7823.9	7748.9	7810.8	8118.2	8489.3	8414.4	7484.6	7256.9	7673.0	8331.9	7839.9
55°	7818.3	7704.0	7905.5	8448.1	9253.2	9339.4	8460.3	8197.9	8586.8	9399.4	8668.4
57.5°	7541.8	7547.4	7857.7	8568.1	9785.5	10209.1	9592.5	9198.8	9555.9	10480.9	9424.7
60°	7161.3	7212.9	7659.9	8548.4	10212.0	10922.4	10981.4	10277.6	10505.3	11464.1	10050.8
62.5°	6547.4	6601.8	7218.5	8344.1	10147.3	11609.4	12237.3	11501.6	11497.8	12060.2	10234.5
65°	5579.3	5563.3	6211.0	7580.2	9604.6	12117.3	13484.7	12559.7	12245.7	12069.5	9865.2
67.5°	4114.4	4043.2	4598.9	5773.3	7983.2	11548.4	14218.6	13110.8	12500.7	11275.7	8736.8
70°	2135.0	2063.8	2513.6	3371.2	5250.3	9013.3	13406.0	12825.9	11937.4	9451.9	6844.5
72.5°	912.9	900.7	1083.4	1478.9	2539.9	5198.8	10511.9	11101.4	10242.9	7042.3	4705.8
75°	613.9	610.1	678.5	806.0	1142.5	2109.7	6578.4	7880.2	7494.0	4366.5	2646.7
77.5°	481.7	477.0	517.3	579.2	740.4	832.3	2919.4	4230.6	3915.7	1900.7	1158.4
80°	376.8	373.0	398.3	432.1	532.3	524.8	960.7	1683.2	1302.7	728.2	563.3
82.5°	297.1	297.1	317.7	318.7	377.7	358.0	501.4	741.3	650.4	424.6	344.9
85°	271.8	271.8	293.4	238.1	246.5	225.9	311.2	439.6	412.4	174.3	150.0
87.5°	136.8	133.1	246.5	210.9	134.0	120.0	151.8	212.7	228.7	96.5	75.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7	2392.7
2.5°	2381.5	2380.5	2382.4	2383.4	2390.9	2401.2	2405.8	2412.4	2416.2	2414.3
5°	2353.4	2355.2	2362.7	2368.4	2381.5	2398.3	2407.7	2415.2	2421.8	2419.0
7.5°	2329.9	2334.6	2345.9	2350.6	2358.0	2362.7	2361.8	2364.6	2370.2	2363.7
10°	2316.8	2322.4	2330.9	2324.3	2306.5	2281.2	2257.8	2245.6	2249.3	2244.6
12.5°	2303.7	2311.2	2304.6	2273.7	2224.0	2191.2	2173.4	2175.3	2183.7	2185.6
15°	2296.2	2299.0	2270.9	2212.8	2162.2	2157.5	2166.9	2165.0	2165.9	2165.9
17.5°	2296.2	2288.7	2236.2	2178.1	2156.5	2148.1	2119.1	2082.5	2066.6	2060.9
20°	2308.4	2288.7	2225.0	2186.5	2139.7	2067.5	1990.7	1923.2	1893.2	1884.8
22.5°	2344.9	2311.2	2256.8	2190.3	2057.2	1936.3	1814.5	1733.9	1679.5	1670.1
25°	2419.0	2381.5	2319.6	2140.6	1926.0	1753.5	1614.8	1524.9	1470.5	1463.0
27.5°	2548.3	2523.9	2353.4	2031.0	1751.7	1567.0	1438.6	1369.3	1329.0	1326.2
30°	2743.2	2731.1	2336.5	1868.8	1537.0	1386.1	1324.3	1284.0	1254.0	1253.1
32.5°	3054.4	2956.0	2281.2	1671.1	1341.2	1257.8	1232.4	1208.1	1184.6	1184.6
35°	3454.6	3137.8	2176.2	1459.3	1222.1	1186.5	1154.7	1116.2	1085.3	1083.4
37.5°	3925.1	3250.3	1987.8	1288.7	1165.9	1138.7	1091.9	1034.7	980.3	971.0
40°	4400.3	3284.0	1722.6	1183.7	1130.3	1090.9	1033.8	966.3	913.8	911.0
42.5°	4836.1	3219.4	1441.4	1111.5	1094.7	1042.2	982.2	922.2	881.0	880.1
45°	5201.6	3051.6	1205.3	1043.1	1057.2	998.1	944.7	896.0	864.1	857.6
47.5°	5545.5	2814.5	1039.4	971.0	1019.7	973.8	928.8	882.9	851.9	847.2
50°	5944.8	2558.6	923.2	900.7	986.9	965.3	941.9	894.1	842.6	836.9
52.5°	6428.4	2337.4	832.3	838.8	961.6	976.6	975.6	926.0	836.0	828.5
55°	6968.2	2091.9	763.8	788.2	951.3	997.2	984.1	956.0	841.6	830.4
57.5°	7499.6	1805.1	716.0	749.8	936.3	995.3	943.8	903.5	854.7	838.8
60°	7898.0	1419.9	679.5	716.0	903.5	964.4	899.7	846.3	851.9	839.7
62.5°	7924.2	1097.5	635.4	687.0	853.8	933.5	870.7	821.0	864.1	852.9
65°	7458.4	829.4	593.3	652.3	800.4	913.8	842.6	806.9	889.4	877.2
67.5°	6279.4	667.3	557.6	616.7	747.0	872.6	817.3	793.8	911.9	890.4
70°	4533.3	568.9	523.0	573.6	699.2	825.7	794.8	770.4	851.0	817.3
72.5°	2791.0	493.0	483.6	516.4	662.6	777.0	761.0	726.3	766.6	739.5
75°	1393.6	427.4	439.6	460.2	611.1	721.7	704.8	670.1	675.7	670.1
77.5°	667.3	365.5	388.0	403.9	544.5	658.9	641.1	605.4	598.9	599.8
80°	422.7	305.5	327.1	338.3	486.4	585.8	568.0	532.3	607.3	563.3
82.5°	264.3	248.4	254.0	274.6	423.6	509.8	486.4	454.6	547.3	433.0
85°	146.2	173.4	180.9	198.7	326.2	426.4	403.0	362.7	325.2	319.6
87.5°	87.2	103.1	105.9	119.0	219.3	308.3	272.7	258.7	214.6	213.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)