

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: P193974

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193974
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-06-LED-E1-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19144 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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

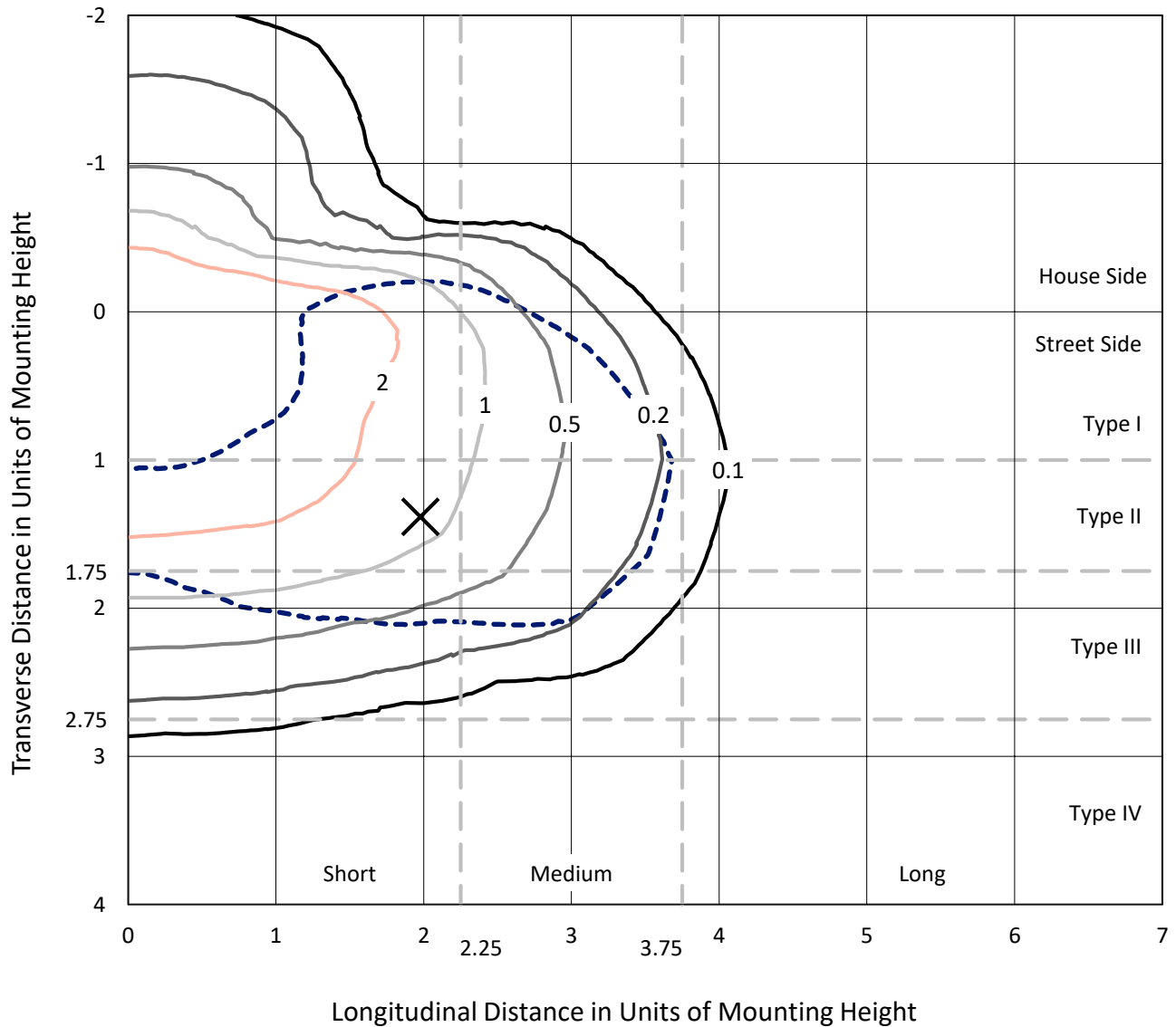


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Iso-Footcandle Lines of Horizontal Illumination

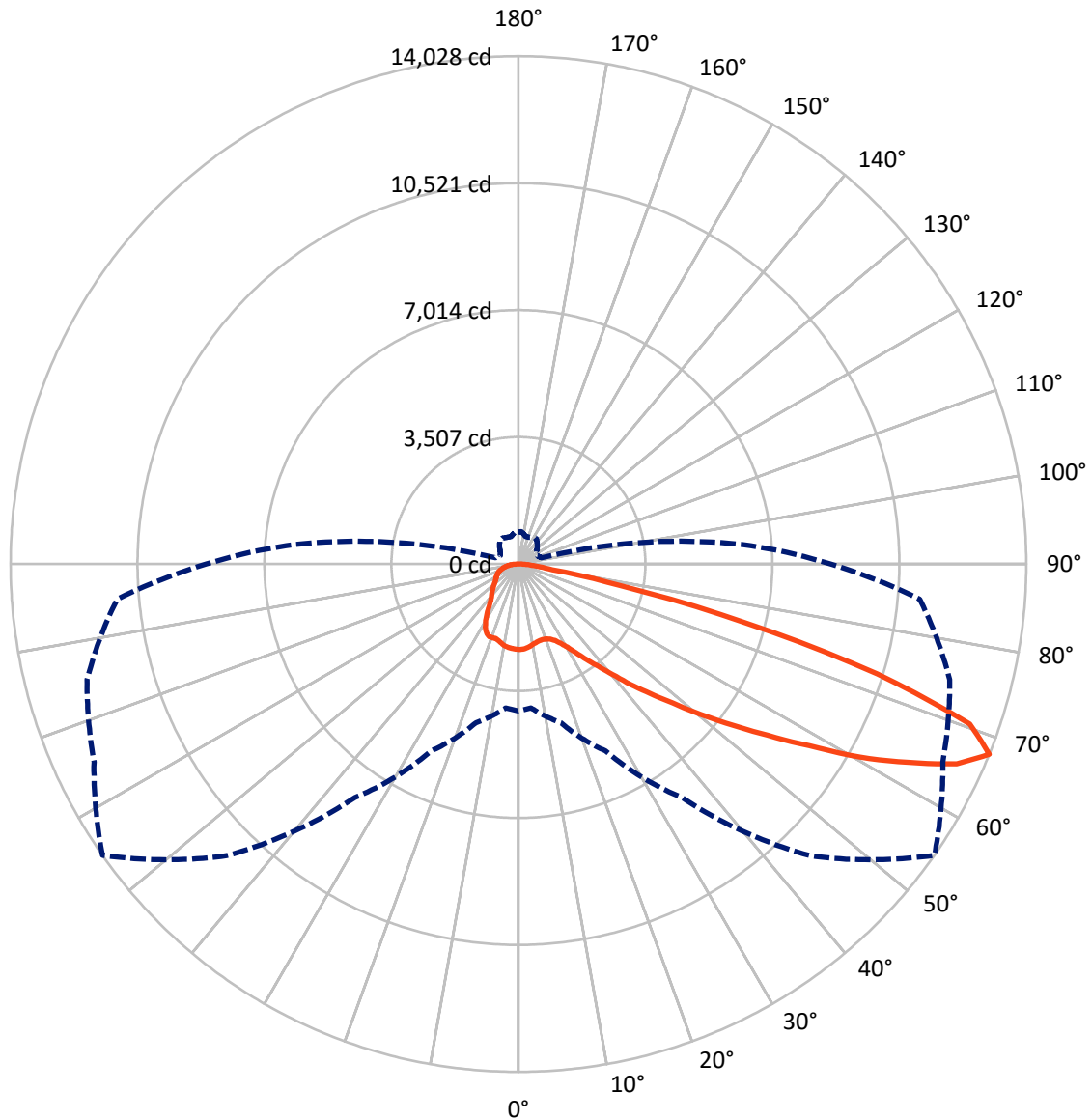
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4135.5	0.0	4135.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15008.5	0.0	15008.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	19144.0	0.0	19144.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	1.2
10°-20°	624.0	3.3
20°-30°	1045.4	5.5
30°-40°	1719.0	9.0
40°-50°	2893.6	15.1
50°-60°	4554.3	23.8
60°-70°	5435.1	28.4
70°-80°	2333.9	12.2
80°-90°	318.2	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°	19144.0	100.0
0°-180°	19144.0	100.0



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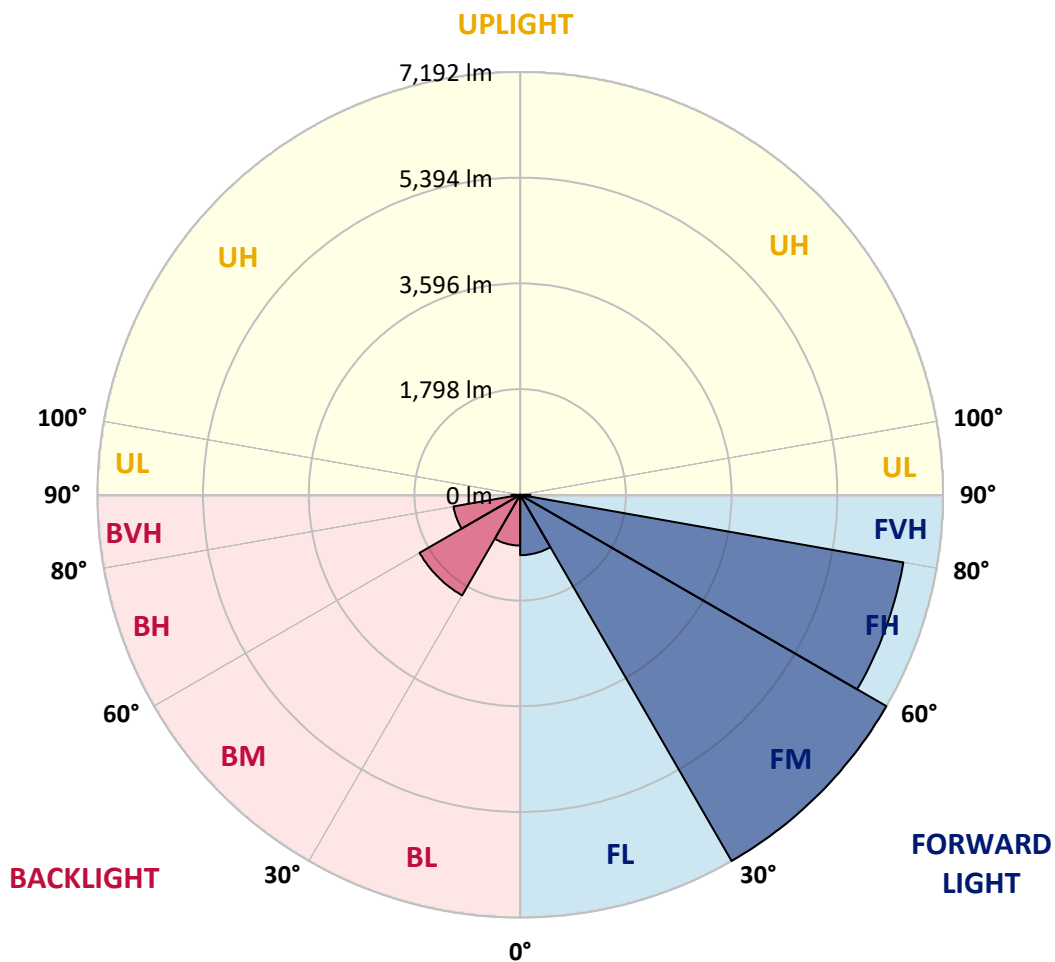
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1026.2	5.4			
FM	(30°-60°)	7191.9	37.6			
FH	(60°-80°)	6618.2	34.6			G3/7500
FVH	(80°-90°)	172.3	0.9			G2/225
BL	(0°-30°)	863.6	4.5	B2/1000		
BM	(30°-60°)	1975.1	10.3	B2/2500		
BH	(60°-80°)	1150.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	146.0	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°	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7
2.5°	2340.3	2341.2	2343.1	2350.5	2357.0	2355.1	2356.0	2352.3	2351.4	2345.9	2351.4
5°	2310.7	2313.5	2314.4	2326.5	2333.8	2335.7	2332.9	2328.3	2322.8	2317.2	2320.0
7.5°	2243.2	2250.6	2251.6	2268.2	2280.2	2295.9	2296.9	2297.8	2295.0	2291.3	2296.9
10°	2200.7	2202.5	2201.6	2213.6	2222.9	2240.5	2250.6	2268.2	2275.6	2277.4	2281.1
12.5°	2197.9	2196.1	2193.3	2193.3	2190.5	2197.9	2216.4	2241.4	2259.0	2264.5	2269.1
15°	2227.5	2226.6	2217.3	2203.5	2185.9	2180.4	2196.1	2223.8	2246.9	2259.0	2263.6
17.5°	2294.1	2288.5	2273.7	2242.3	2204.4	2189.6	2191.5	2214.6	2241.4	2257.1	2261.7
20°	2416.1	2416.1	2384.7	2325.5	2258.0	2222.9	2206.2	2220.1	2246.0	2267.3	2273.7
22.5°	2627.0	2628.8	2576.1	2479.0	2365.3	2290.4	2248.8	2246.0	2276.5	2300.6	2308.0
25°	2925.6	2918.2	2844.3	2705.6	2532.7	2408.7	2336.6	2320.0	2345.9	2372.7	2381.9
27.5°	3273.3	3246.5	3158.6	2991.3	2767.5	2586.3	2475.3	2448.5	2473.5	2504.0	2513.2
30°	3617.3	3589.5	3485.1	3302.0	3053.2	2823.9	2664.9	2621.4	2656.6	2700.0	2705.6
32.5°	3961.3	3961.3	3844.7	3631.2	3360.2	3107.8	2917.3	2865.5	2923.8	2976.5	2988.5
35°	4372.7	4374.6	4261.8	4004.7	3713.4	3446.2	3236.3	3198.4	3286.3	3323.2	3351.9
37.5°	4878.5	4888.7	4743.5	4432.8	4113.8	3832.7	3583.1	3531.3	3619.1	3719.9	3812.4
40°	5425.0	5437.9	5278.0	4895.2	4576.2	4282.1	4012.1	3918.7	4064.8	4257.1	4376.4
42.5°	5946.5	6013.1	5858.7	5464.8	5121.7	4817.5	4543.8	4407.9	4591.0	4881.3	4984.9
45°	6700.1	6748.2	6479.1	6122.2	5799.5	5459.2	5096.7	4953.4	5209.6	5575.7	5597.0
47.5°	7202.2	7166.1	7029.3	6807.4	6603.0	6284.9	5739.4	5582.2	5922.5	6353.4	6234.1
50°	7469.4	7480.5	7462.0	7475.0	7482.4	7282.6	6527.2	6311.7	6717.7	7238.3	6963.6
52.5°	7719.1	7645.1	7706.1	8009.4	8375.6	8301.6	7384.4	7159.7	7570.2	8220.3	7734.8
55°	7713.5	7600.7	7799.5	8334.9	9129.2	9214.3	8346.9	8088.0	8471.8	9273.4	8552.2
57.5°	7440.8	7446.3	7752.4	8453.3	9654.4	10072.4	9463.9	9075.6	9427.9	10340.5	9298.4
60°	7065.3	7116.2	7557.3	8433.9	10075.1	10776.0	10834.3	10139.9	10364.5	11310.5	9916.1
62.5°	6459.7	6513.3	7121.8	8232.3	10011.3	11453.8	12073.3	11347.5	11343.8	11898.6	10097.3
65°	5504.5	5488.8	6127.7	7478.7	9475.9	11955.0	13304.0	12391.4	12081.6	11907.8	9733.0
67.5°	4059.3	3989.0	4537.3	5695.9	7876.3	11393.7	14028.1	12935.1	12333.2	11124.6	8619.7
70°	2106.4	2036.1	2479.9	3326.0	5180.0	8892.5	13226.4	12654.0	11777.4	9325.2	6752.8
72.5°	900.6	888.6	1068.9	1459.1	2505.8	5129.1	10371.0	10952.6	10105.6	6947.9	4642.7
75°	605.7	602.0	669.5	795.2	1127.2	2081.4	6490.2	7774.6	7393.6	4308.0	2611.2
77.5°	475.3	470.7	510.4	571.4	730.5	821.1	2880.3	4173.9	3863.2	1875.2	1142.9
80°	371.7	368.0	393.0	426.3	525.2	517.8	947.8	1660.7	1285.3	718.5	555.7
82.5°	293.1	293.1	313.5	314.4	372.6	353.2	494.7	731.4	641.7	418.9	340.3
85°	268.2	268.2	289.4	234.9	243.2	222.8	307.0	433.7	406.9	172.0	147.9
87.5°	135.0	131.3	243.2	208.0	132.2	118.4	149.8	209.9	225.6	95.2	74.0
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°	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7
2.5°	2349.6	2348.6	2350.5	2351.4	2358.8	2369.0	2373.6	2380.1	2383.8	2381.9
5°	2321.8	2323.7	2331.1	2336.6	2349.6	2366.2	2375.5	2382.9	2389.3	2386.6
7.5°	2298.7	2303.3	2314.4	2319.1	2326.5	2331.1	2330.2	2332.9	2338.5	2332.0
10°	2285.8	2291.3	2299.6	2293.2	2275.6	2250.6	2227.5	2215.5	2219.2	2214.6
12.5°	2272.8	2280.2	2273.7	2243.2	2194.2	2161.9	2144.3	2146.1	2154.5	2156.3
15°	2265.4	2268.2	2240.5	2183.1	2133.2	2128.6	2137.8	2136.0	2136.9	2136.9
17.5°	2265.4	2258.0	2206.2	2148.9	2127.6	2119.3	2090.7	2054.6	2038.9	2033.3
20°	2277.4	2258.0	2195.1	2157.2	2111.0	2039.8	1964.0	1897.4	1867.8	1859.5
22.5°	2313.5	2280.2	2226.6	2160.9	2029.6	1910.4	1790.1	1710.6	1657.0	1647.7
25°	2386.6	2349.6	2288.5	2111.9	1900.2	1730.0	1593.2	1504.4	1450.8	1443.4
27.5°	2514.2	2490.1	2321.8	2003.7	1728.2	1546.0	1419.4	1350.9	1311.2	1308.4
30°	2706.5	2694.5	2305.2	1843.8	1516.4	1367.6	1306.5	1266.8	1237.2	1236.3
32.5°	3013.5	2916.4	2250.6	1648.7	1323.2	1240.9	1215.9	1191.9	1168.8	1168.8
35°	3408.3	3095.8	2147.1	1439.7	1205.8	1170.6	1139.2	1101.3	1070.8	1068.9
37.5°	3872.5	3206.7	1961.2	1271.4	1150.3	1123.5	1077.2	1020.8	967.2	958.0
40°	4341.3	3240.0	1699.5	1167.8	1115.1	1076.3	1019.9	953.3	901.5	898.8
42.5°	4771.3	3176.2	1422.1	1096.7	1080.0	1028.2	969.0	909.9	869.2	868.3
45°	5131.9	3010.7	1189.1	1029.1	1043.0	984.8	932.1	884.0	852.5	846.1
47.5°	5471.2	2776.8	1025.5	958.0	1006.0	960.7	916.3	871.0	840.5	835.9
50°	5865.1	2524.3	910.8	888.6	973.7	952.4	929.3	882.1	831.3	825.7
52.5°	6342.3	2306.1	821.1	827.6	948.7	963.5	962.6	913.6	824.8	817.4
55°	6874.9	2063.8	753.6	777.6	938.5	983.8	970.9	943.2	830.3	819.3
57.5°	7399.2	1780.9	706.4	739.7	923.7	982.0	931.1	891.4	843.3	827.6
60°	7792.1	1400.9	670.4	706.4	891.4	951.5	887.7	835.0	840.5	828.5
62.5°	7818.0	1082.8	626.9	677.8	842.4	921.0	859.0	810.0	852.5	841.4
65°	7358.5	818.3	585.3	643.6	789.7	901.5	831.3	796.1	877.5	865.5
67.5°	6195.2	658.4	550.2	608.4	737.0	860.9	806.3	783.2	899.7	878.4
70°	4472.6	561.3	516.0	565.9	689.8	814.6	784.1	760.1	839.6	806.3
72.5°	2753.6	486.4	477.1	509.5	653.7	766.5	750.8	716.6	756.4	729.6
75°	1375.0	421.6	433.7	454.0	602.9	712.0	695.3	661.1	666.7	661.1
77.5°	658.4	360.6	382.8	398.5	537.2	650.0	632.5	597.3	590.9	591.8
80°	417.0	301.4	322.7	333.8	479.9	577.9	560.3	525.2	599.2	555.7
82.5°	260.8	245.0	250.6	270.9	417.9	503.0	479.9	448.5	540.0	427.2
85°	144.2	171.1	178.5	196.0	321.8	420.7	397.6	357.8	320.9	315.3
87.5°	86.0	101.7	104.5	117.4	216.4	304.2	269.1	255.2	211.7	210.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)