

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: P194041

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-T3R-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16632 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 191  
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

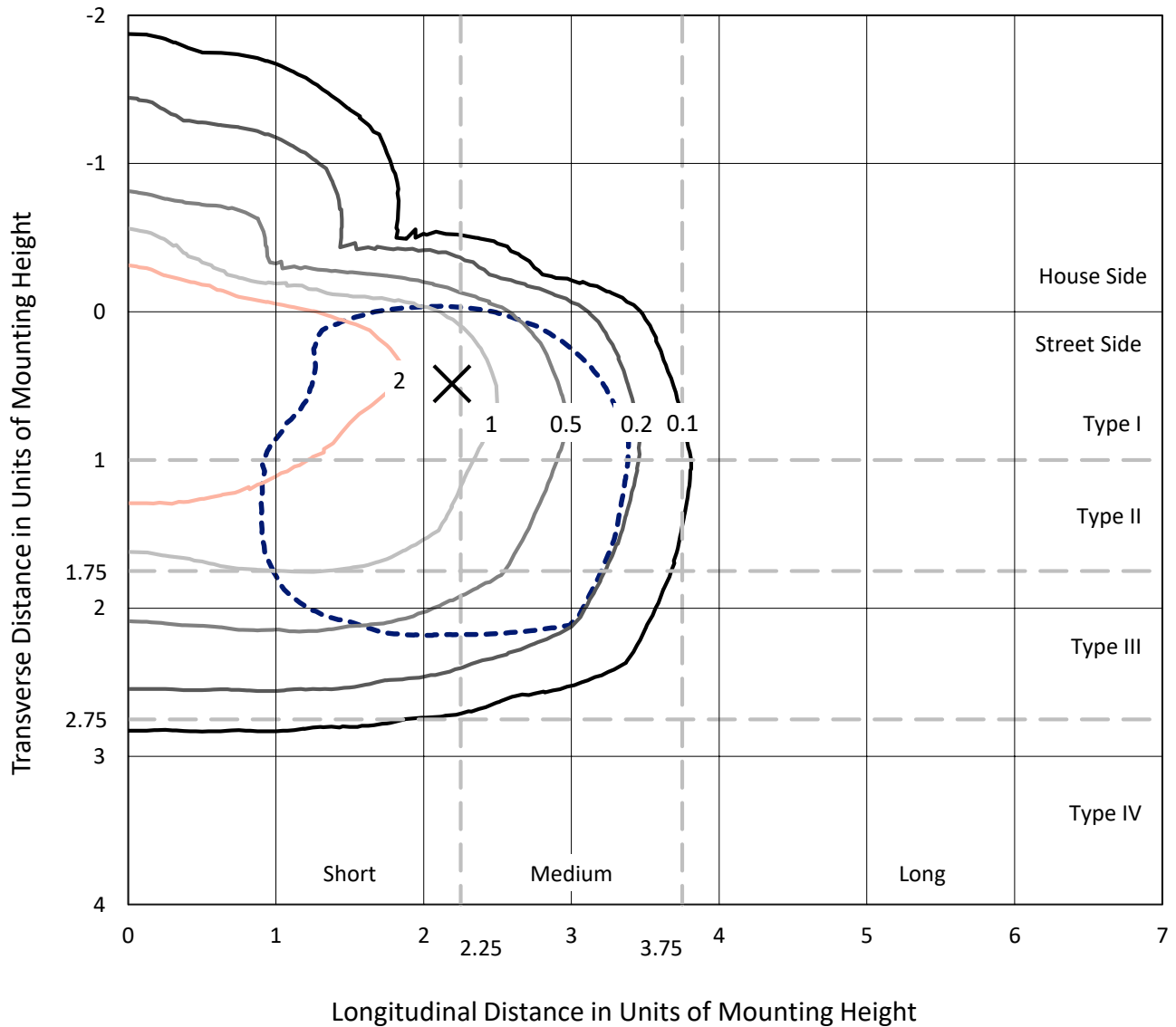


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### Iso-Footcandle Lines of Horizontal Illumination

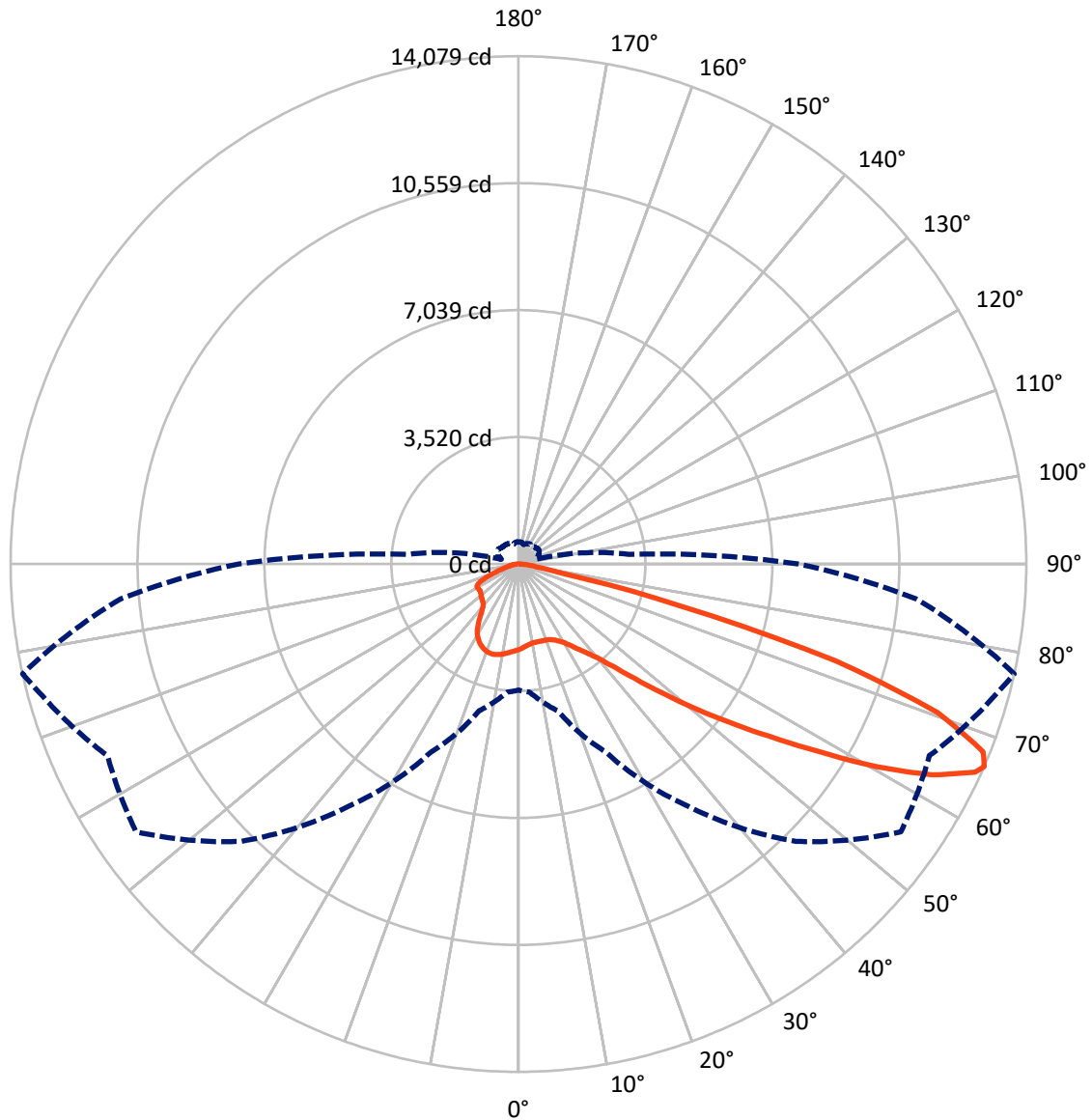
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2841.5	0.0	2841.5
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	13790.5	0.0	13790.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	16632.0	0.0	16632.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.8	1.3
10°-20°	597.4	3.6
20°-30°	1019.5	6.1
30°-40°	1632.1	9.8
40°-50°	2521.4	15.2
50°-60°	3576.3	21.5
60°-70°	4784.1	28.8
70°-80°	2077.6	12.5
80°-90°	211.9	1.3
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°	16632.0	100.0
0°-180°	16632.0	100.0



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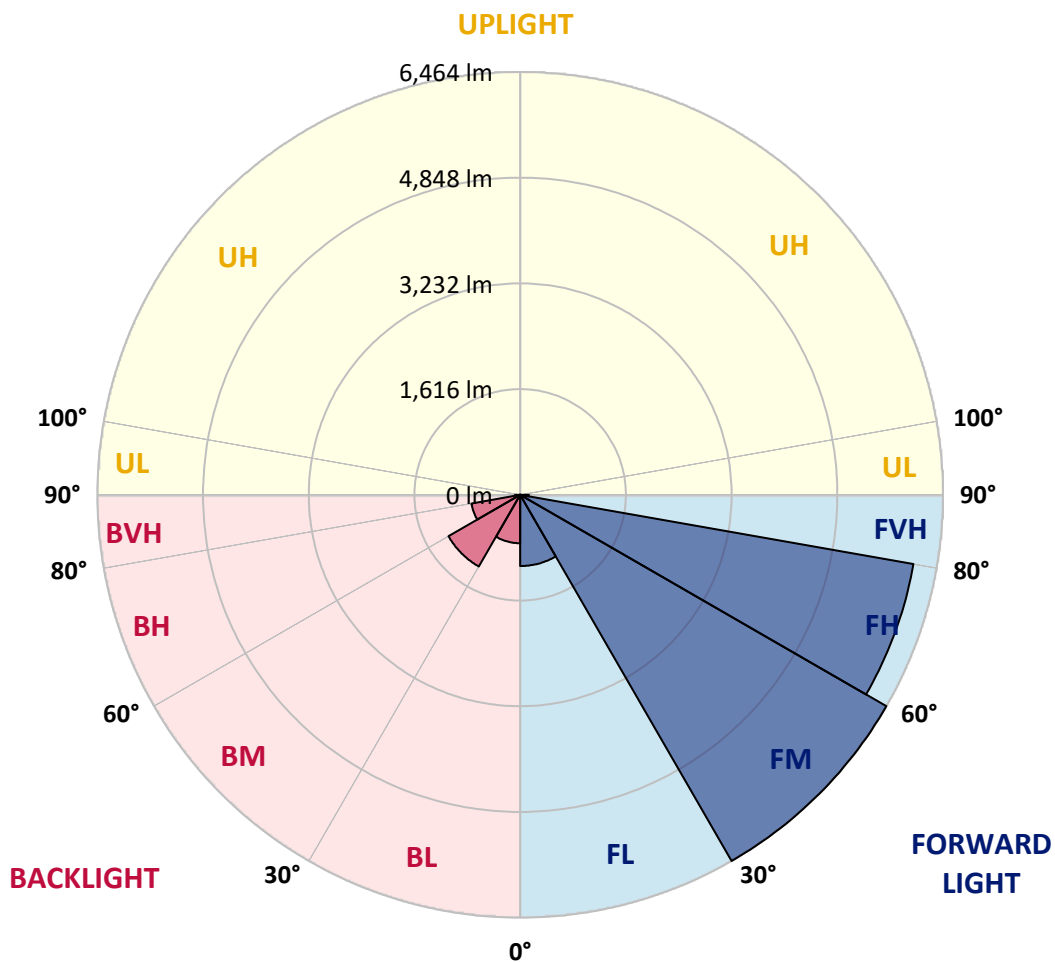
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.6	6.5			
FM (30°-60°)	6464.1	38.9			
FH (60°-80°)	6104.9	36.7			G3/7500
FVH (80°-90°)	132.9	0.8			G2/225
BL (0°-30°)	740.0	4.4	B2/1000		
BM (30°-60°)	1265.7	7.6	B2/2500		
BH (60°-80°)	756.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	79.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1
2.5°	2096.7	2110.8	2122.6	2133.6	2155.6	2191.7	2233.4	2267.2	2315.9	2325.3	2351.3
5°	1904.1	1904.1	1913.6	1930.1	1959.9	2014.1	2070.7	2146.2	2252.3	2277.4	2346.6
7.5°	1810.6	1811.4	1816.9	1831.0	1857.0	1906.5	1968.6	2057.4	2201.2	2242.8	2360.7
10°	1845.2	1837.3	1825.5	1818.5	1822.4	1851.5	1910.4	2009.4	2169.7	2223.2	2392.1
12.5°	2038.5	2023.6	1982.7	1928.5	1876.6	1855.4	1890.0	1986.6	2156.4	2218.5	2433.8
15°	2354.4	2348.1	2271.9	2159.5	2033.8	1928.5	1904.9	1978.0	2158.0	2224.0	2483.3
17.5°	2750.5	2741.8	2641.3	2477.8	2272.7	2067.6	1957.6	1985.1	2163.5	2233.4	2531.2
20°	3150.5	3123.8	3015.3	2820.4	2557.2	2257.0	2044.8	2003.1	2170.5	2243.6	2581.5
22.5°	3449.1	3427.1	3329.7	3140.3	2836.9	2476.2	2161.9	2034.6	2193.3	2273.5	2643.6
25°	3711.6	3713.2	3616.5	3433.4	3119.8	2708.8	2312.8	2118.7	2251.5	2334.8	2728.5
27.5°	4036.2	4017.3	3926.9	3745.4	3399.6	2943.8	2495.1	2234.2	2337.9	2422.0	2840.1
30°	4424.4	4411.0	4306.5	4100.6	3710.0	3196.1	2703.3	2368.6	2449.5	2536.7	2986.2
32.5°	4880.9	4874.7	4766.2	4501.4	4068.4	3493.1	2947.7	2546.2	2616.1	2706.5	3196.1
35°	5416.9	5417.7	5289.6	4971.3	4460.5	3838.9	3225.1	2774.9	2818.9	2913.2	3446.0
37.5°	5747.0	5787.0	5739.1	5414.5	4904.5	4225.5	3585.1	3078.2	3049.9	3145.0	3714.0
40°	5817.7	5866.4	6018.1	5853.0	5401.2	4651.5	3904.1	3369.7	3334.4	3450.7	4058.9
42.5°	5718.7	5786.3	6106.9	6223.2	5928.5	5176.4	4333.2	3802.8	3758.0	3914.3	4488.0
45°	5659.7	5710.0	6080.9	6415.7	6385.9	5769.7	4879.4	4346.6	4330.1	4535.2	4983.1
47.5°	5557.6	5603.1	5959.9	6460.5	6654.6	6313.6	5535.6	5011.4	5043.6	5312.4	5541.9
50°	5612.6	5631.4	5824.8	6346.6	6732.4	6712.0	6268.8	5781.5	5891.6	6227.1	6174.5
52.5°	5604.7	5653.4	5809.0	6159.5	6742.6	6958.0	6991.0	6640.5	6872.3	7257.4	6876.2
55°	4531.2	4620.8	5624.4	6112.4	6778.8	7199.2	7633.8	7545.8	7978.0	8426.7	7668.4
57.5°	4326.9	4383.5	4939.9	6211.4	6970.5	7659.7	8348.9	8542.2	9265.2	9786.3	8633.4
60°	4286.8	4356.8	4932.8	6332.4	7359.5	8410.2	9409.0	9748.5	10831.4	11402.0	9752.5
62.5°	4161.9	4237.3	4886.4	6316.7	7912.0	9448.3	10766.2	11031.0	12316.7	12871.5	10688.4
65°	3765.8	3836.5	4508.5	6062.9	8284.5	10556.4	12372.5	12206.7	13489.2	13906.5	11155.2
66°	3494.7	3563.9	4210.6	5764.2	8198.0	10870.7	12941.5	12570.5	13751.7	14078.6	11064.1
67.5°	2998.8	3053.0	3632.2	5095.5	7738.3	10958.7	13420.0	12844.0	13779.2	13894.7	10543.0
70°	1894.7	1910.4	2360.7	3517.5	5857.8	9504.1	12691.6	12165.0	12642.8	12330.1	8838.5
72.5°	822.0	816.5	1133.2	1789.4	3316.3	6377.2	10266.4	10037.7	9917.5	9203.9	6187.0
75°	457.4	463.7	588.6	830.6	1347.7	3132.4	6715.9	6426.7	5426.3	4630.3	2805.5
77.5°	367.0	375.6	488.0	589.4	605.1	1092.3	3142.6	2557.2	1539.5	1235.4	779.6
80°	290.0	305.7	425.9	458.9	407.9	450.3	1015.3	811.8	609.0	558.7	403.9
82.5°	229.5	240.5	365.4	347.3	285.3	303.3	486.4	473.9	396.1	360.7	233.4
85°	165.0	185.5	300.2	261.7	187.0	204.3	323.0	309.6	227.1	185.5	102.9
87.5°	67.6	88.0	212.2	173.7	104.5	95.1	161.1	151.7	107.7	78.6	51.1
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°	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1
2.5°	2367.8	2386.6	2411.0	2425.9	2433.8	2439.3	2447.9	2447.2	2449.5	2450.3	2453.4
5°	2383.5	2414.9	2450.3	2459.7	2459.7	2451.1	2442.4	2428.3	2422.8	2421.2	2422.8
7.5°	2424.4	2458.9	2489.6	2478.6	2455.0	2420.4	2375.6	2336.3	2315.1	2308.1	2306.5
10°	2476.2	2517.9	2530.5	2488.8	2419.6	2336.3	2247.5	2183.1	2146.2	2136.0	2132.8
12.5°	2539.1	2578.4	2561.1	2473.1	2345.0	2210.6	2088.0	1985.1	1908.1	1883.7	1882.1
15°	2608.3	2638.9	2578.4	2424.4	2233.4	2035.4	1816.9	1639.3	1543.4	1512.8	1510.4
17.5°	2672.7	2688.4	2568.2	2339.5	2069.2	1748.5	1458.5	1321.8	1288.8	1296.7	1298.2
20°	2727.7	2727.7	2533.6	2217.7	1810.6	1370.5	1187.4	1185.1	1208.6	1232.2	1236.9
22.5°	2788.2	2752.1	2473.1	2045.6	1444.4	1121.4	1094.7	1116.7	1143.4	1169.4	1173.3
25°	2862.9	2771.7	2389.0	1784.7	1135.6	1018.5	1028.7	1046.8	1060.1	1076.6	1079.0
27.5°	2946.2	2796.9	2278.2	1425.5	985.5	954.0	961.9	968.2	966.6	972.9	974.5
30°	3046.0	2825.9	2126.5	1114.3	923.4	899.0	884.9	879.4	879.4	889.6	893.5
32.5°	3179.6	2869.2	1908.8	954.8	893.5	859.7	814.1	793.7	801.6	836.1	844.0
35°	3326.5	2915.5	1614.1	900.6	887.2	841.7	770.9	733.2	734.0	766.2	776.4
37.5°	3486.8	2974.5	1291.2	890.4	901.4	842.4	748.1	696.3	675.0	675.0	679.0
40°	3691.9	3035.0	1045.2	897.4	931.2	851.9	736.3	667.2	607.5	609.0	612.2
42.5°	3959.1	3086.8	913.2	912.4	967.4	864.4	735.6	628.7	576.8	612.2	644.4
45°	4256.2	3112.8	855.0	925.7	996.5	872.3	723.0	622.4	580.7	686.1	747.3
47.5°	4598.0	3097.8	822.8	930.5	1003.5	872.3	708.8	637.3	608.3	794.5	866.0
50°	4972.9	3054.6	791.4	921.0	1001.2	870.7	722.2	652.3	618.5	813.4	862.9
52.5°	5413.8	3018.5	758.4	900.6	984.7	862.1	737.9	646.0	586.2	739.5	774.1
55°	5916.7	3028.7	721.4	871.5	958.7	845.6	732.4	620.8	552.5	651.5	672.7
57.5°	6559.5	3150.5	677.4	834.6	923.4	818.1	712.8	609.0	542.2	591.0	603.5
60°	7277.0	3362.7	622.4	797.6	879.4	774.1	697.8	614.5	547.0	586.2	592.5
62.5°	7803.5	3486.1	575.2	743.4	819.6	725.3	679.0	621.6	559.5	602.8	601.2
65°	7946.6	3283.3	516.3	664.0	738.7	674.3	655.4	629.5	565.0	616.1	609.0
66°	7746.2	3064.8	490.4	627.1	697.8	649.1	643.6	628.7	562.7	617.7	605.9
67.5°	7259.7	2616.9	445.6	572.9	632.6	611.4	624.8	621.6	556.4	616.1	599.6
70°	5920.6	1785.5	381.1	477.0	526.5	538.3	588.6	596.5	536.0	588.6	552.5
72.5°	4136.7	1087.6	337.1	370.1	425.9	458.9	539.1	561.9	508.4	513.9	479.4
75°	1999.2	577.6	305.7	286.8	330.8	383.5	479.4	514.7	465.2	429.9	417.3
77.5°	623.2	352.8	259.3	231.0	259.3	309.6	400.8	451.1	414.1	359.9	355.2
80°	334.8	259.3	199.6	185.5	205.1	242.8	315.1	376.4	356.0	323.0	288.4
82.5°	220.8	168.2	147.7	143.8	156.4	185.5	234.2	312.0	312.0	276.6	201.2
85°	113.9	102.9	101.4	101.4	109.2	123.4	159.5	240.5	256.2	146.2	121.0
87.5°	56.6	58.9	55.0	57.4	61.3	60.5	76.2	121.0	144.6	88.8	73.9
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)