

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: P191553

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-T4W-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19911.7 lumens  
Efficiency: N/A  
Efficacy: 122.9 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

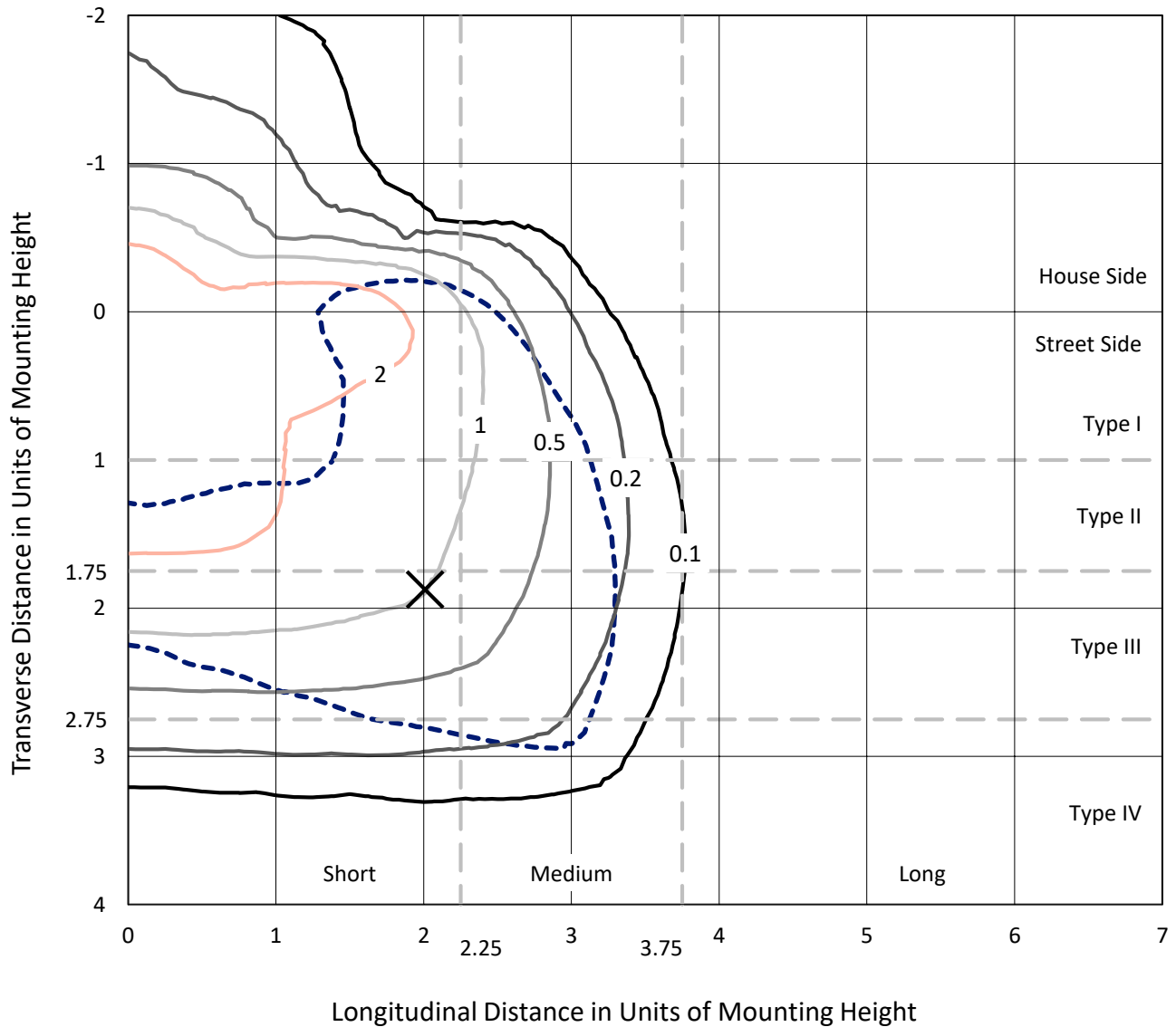
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

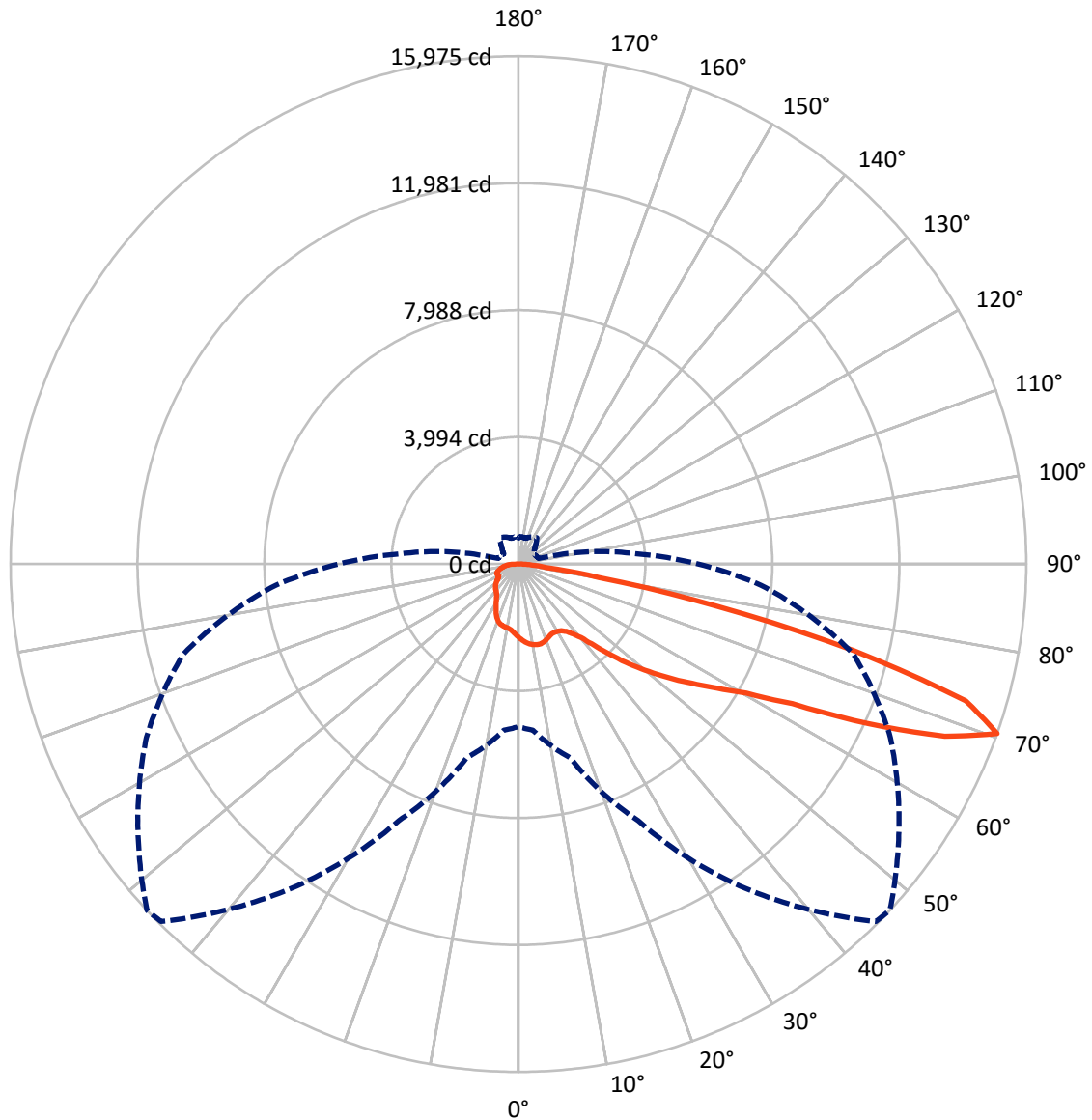
× Max cd  
 - - - 1/2 Max cd



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	4154.0	0.0	4154.0
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	15757.8	0.0	15757.8
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	19911.7	0.0	19911.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.4	1.1
10°-20°	649.5	3.3
20°-30°	959.1	4.8
30°-40°	1394.0	7.0
40°-50°	2508.7	12.6
50°-60°	4346.0	21.8
60°-70°	6203.0	31.2
70°-80°	3184.3	16.0
80°-90°	445.8	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°	19911.7	100.0
0°-180°	19911.7	100.0



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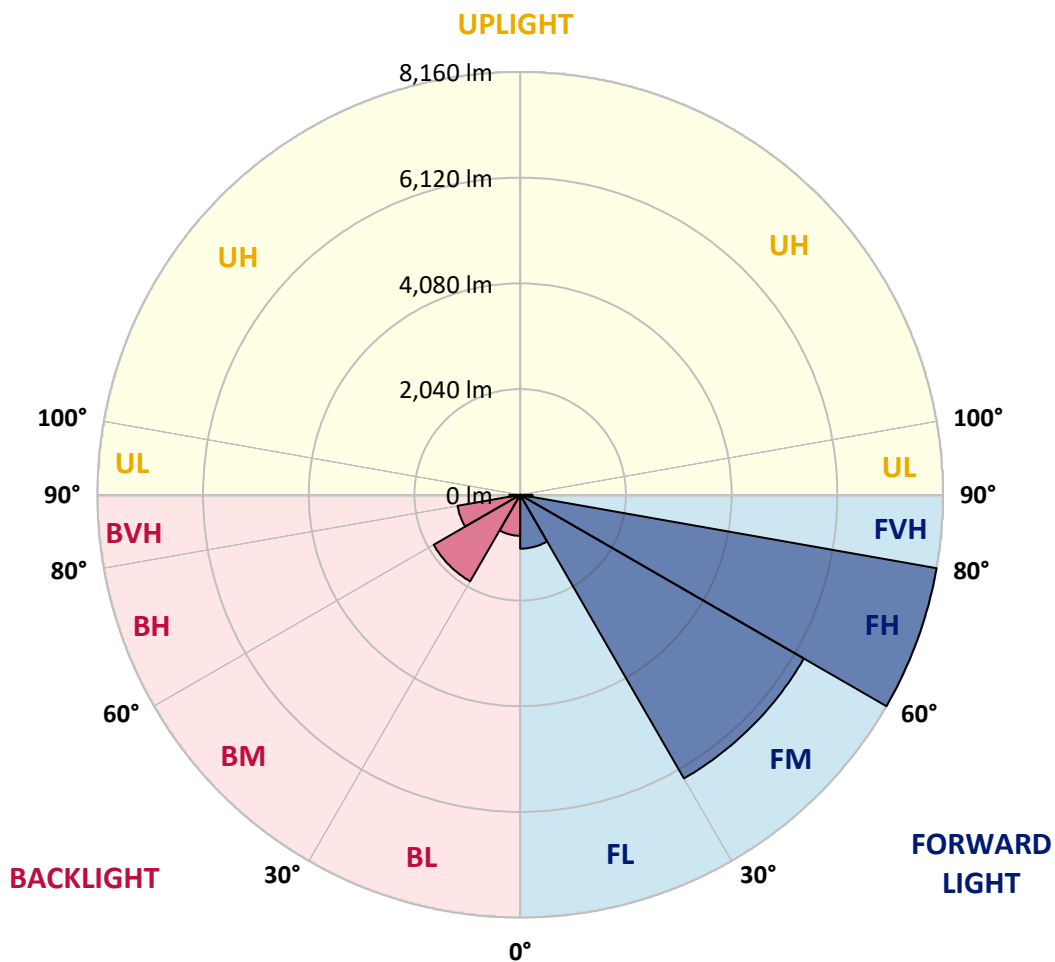
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.0	5.2			
FM	(30°-60°)	6320.5	31.7			
FH	(60°-80°)	8160.4	41.0			G4/12000
FVH	(80°-90°)	237.9	1.2			G3/500
BL	(0°-30°)	790.9	4.0	B2/1000		
BM	(30°-60°)	1928.1	9.7	B2/2500		
BH	(60°-80°)	1227.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	207.9	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°	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3
2.5°	2446.0	2441.2	2439.2	2435.3	2430.5	2406.3	2401.5	2384.0	2359.7	2334.6	2308.5
5°	2606.8	2605.9	2595.2	2575.8	2544.8	2491.5	2478.9	2436.4	2379.2	2323.9	2268.7
7.5°	2748.3	2739.6	2719.2	2680.4	2626.2	2553.5	2536.1	2477.0	2398.5	2323.0	2248.3
10°	2851.9	2847.1	2802.5	2749.2	2678.5	2598.1	2577.7	2511.9	2425.6	2329.8	2236.8
12.5°	2911.0	2901.3	2849.9	2786.0	2701.7	2623.3	2602.9	2536.1	2439.2	2329.8	2220.3
15°	2907.1	2900.4	2849.0	2779.3	2693.9	2625.2	2606.8	2540.0	2436.4	2320.1	2198.9
17.5°	2829.6	2832.6	2789.0	2720.1	2650.4	2598.1	2581.6	2519.6	2416.9	2300.7	2173.8
20°	2693.9	2707.5	2678.5	2617.4	2578.8	2542.9	2532.2	2479.9	2387.0	2272.6	2146.7
22.5°	2558.4	2571.0	2559.3	2508.0	2502.1	2480.9	2475.0	2437.3	2360.8	2255.2	2130.2
25°	2458.6	2470.2	2468.3	2423.7	2441.2	2440.1	2435.3	2416.9	2354.9	2255.2	2133.1
27.5°	2431.5	2435.3	2431.5	2390.7	2415.0	2434.4	2430.5	2427.6	2372.4	2283.2	2169.9
30°	2524.4	2518.6	2488.6	2406.3	2428.6	2455.7	2451.8	2453.8	2424.7	2356.9	2252.2
32.5°	2895.5	2869.4	2774.3	2542.9	2483.8	2498.4	2500.3	2532.2	2537.0	2470.2	2380.1
35°	3450.5	3421.5	3298.5	2909.1	2655.3	2604.8	2604.8	2653.3	2682.4	2633.0	2578.8
37.5°	4038.6	4006.6	3940.7	3416.7	3015.6	2789.9	2785.1	2818.9	2860.6	2872.2	2885.8
40°	4707.0	4673.0	4691.5	3986.2	3518.3	3110.6	3041.7	3017.5	3129.9	3204.5	3313.0
42.5°	5438.3	5422.9	5429.6	4620.8	4090.9	3590.0	3492.3	3367.2	3502.9	3635.6	3863.3
45°	6115.5	6129.0	6122.3	5299.8	4728.3	4175.2	4071.5	3829.3	3962.0	4189.7	4560.7
47.5°	6708.3	6652.1	6739.3	6041.9	5442.2	4830.0	4702.1	4377.6	4512.2	4793.2	5420.9
50°	7428.1	7420.4	7292.5	7031.9	6305.4	5487.7	5320.2	4944.3	5153.5	5544.0	6504.9
52.5°	8184.6	8044.2	7926.9	7802.0	7220.8	6161.9	5956.6	5509.1	5907.2	6398.4	7826.2
55°	8339.6	8276.7	8422.0	8632.2	8103.3	6862.4	6623.1	6217.2	6755.8	7374.9	9350.0
57.5°	8670.9	8670.0	8970.3	9345.2	9011.9	7605.3	7364.1	7072.6	7710.0	8493.7	10967.8
60°	8894.8	8957.7	9515.7	10243.2	9904.1	8463.7	8241.8	8059.7	8794.9	9744.3	12475.1
62.5°	9011.9	9097.2	9858.6	10607.4	11165.4	9892.5	9670.7	9408.2	10230.5	11116.0	13356.7
65°	8524.7	8692.2	9805.3	10922.3	12269.7	12208.7	12108.9	11647.8	12025.6	12200.0	13037.9
67.5°	7176.2	7347.7	8643.8	10628.8	13058.3	14442.5	14463.8	13676.3	13130.0	12293.0	10961.9
70°	5112.9	5247.5	6319.9	8911.2	12457.7	15902.4	15975.0	14611.1	12910.0	10901.9	7658.6
72.5°	2427.6	2509.9	3525.2	5799.7	9885.7	14570.4	14710.9	13417.6	10977.5	8071.3	4178.0
75°	892.2	917.4	1191.5	2467.4	5733.8	10745.0	10910.6	9618.4	7277.0	4018.3	1591.6
77.5°	534.7	551.2	668.4	1041.4	2255.2	6141.6	6386.7	5231.1	3180.3	1495.7	782.8
80°	373.9	385.6	479.6	648.0	1065.6	2340.4	2558.4	2135.0	1267.0	946.4	569.6
82.5°	252.9	258.6	337.1	437.8	708.1	836.0	901.8	949.3	854.4	704.3	361.3
85°	165.6	171.4	228.6	288.7	450.4	432.1	441.7	558.9	623.9	478.5	200.5
87.5°	94.9	98.8	137.6	154.1	220.9	183.1	185.1	294.5	399.2	322.5	122.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3	2310.3
2.5°	2301.6	2289.1	2261.0	2243.5	2227.1	2223.2	2216.4	2215.4	2214.5	2214.5	2211.6
5°	2250.3	2229.0	2185.4	2161.2	2140.8	2138.9	2138.0	2142.8	2144.7	2146.7	2143.8
7.5°	2217.3	2188.3	2134.1	2099.2	2075.0	2069.1	2078.8	2101.1	2115.7	2121.5	2118.5
10°	2197.0	2161.2	2098.3	2060.4	2040.1	2037.2	2049.8	2076.0	2105.9	2117.6	2116.7
12.5°	2173.8	2133.1	2066.3	2026.6	2014.9	2020.7	2037.2	2061.5	2092.4	2110.9	2111.8
15°	2150.5	2103.1	2034.3	1999.5	1994.5	2002.3	2017.9	2036.3	2060.4	2078.8	2080.8
17.5°	2122.4	2073.0	2004.3	1968.5	1964.6	1968.5	1969.4	1979.1	1994.5	2012.0	2016.8
20°	2092.4	2042.0	1970.4	1934.5	1917.1	1901.6	1884.2	1886.1	1890.9	1908.3	1912.2
22.5°	2071.1	2020.7	1944.2	1894.8	1848.3	1801.8	1766.9	1762.1	1764.0	1778.6	1783.4
25°	2073.0	2019.8	1937.5	1852.2	1750.5	1675.9	1629.4	1621.6	1620.7	1631.3	1638.1
27.5°	2110.9	2057.6	1962.6	1808.6	1643.9	1533.5	1484.1	1478.3	1470.5	1473.5	1481.1
30°	2195.2	2145.7	2023.6	1764.0	1528.6	1394.0	1342.6	1336.8	1326.2	1321.3	1327.2
32.5°	2332.6	2292.0	2112.8	1721.4	1413.3	1274.8	1222.5	1209.9	1203.1	1197.4	1202.2
35°	2561.3	2543.9	2231.9	1674.9	1311.6	1182.8	1135.4	1115.9	1106.3	1117.0	1124.6
37.5°	2919.7	2929.4	2387.9	1602.2	1233.2	1121.8	1082.1	1059.8	1045.3	1053.9	1062.6
40°	3427.3	3434.0	2560.3	1499.5	1165.3	1086.0	1043.3	1023.0	1002.6	987.1	986.1
42.5°	4093.7	4025.0	2729.8	1388.1	1086.9	1063.7	1016.2	991.0	960.0	917.4	908.7
45°	4884.3	4643.1	2858.6	1260.3	998.7	1036.6	986.1	951.2	902.9	856.3	851.5
47.5°	5794.8	5306.7	2921.6	1127.6	916.4	996.8	949.3	894.2	833.1	809.9	806.9
50°	6907.0	6094.1	2951.6	998.7	844.8	944.5	896.1	831.1	779.8	775.0	772.0
52.5°	8173.1	7041.6	2961.3	893.1	785.6	876.7	852.4	789.5	748.8	752.7	752.7
55°	9498.2	8019.9	2829.6	816.6	731.4	806.9	823.4	773.0	739.1	754.6	760.5
57.5°	10714.9	8887.0	2415.0	757.5	680.1	753.7	812.7	788.5	765.3	828.3	832.2
60°	11648.8	9399.4	1803.8	704.3	642.2	735.3	840.9	847.6	853.4	1003.6	1024.0
62.5°	11844.4	9229.0	1239.9	662.6	624.8	750.7	892.2	893.1	886.4	991.0	1003.6
65°	10946.5	8150.8	901.8	639.3	610.3	778.9	935.8	915.4	870.8	950.3	927.1
67.5°	8693.2	6140.7	750.7	622.0	589.0	776.9	982.2	935.8	862.1	930.9	893.1
70°	5642.8	3713.1	668.4	607.4	563.7	740.1	1009.4	933.9	837.0	866.0	821.4
72.5°	2753.1	1660.4	613.2	586.0	537.7	688.8	1008.4	916.4	810.8	808.8	784.7
75°	1077.2	760.5	562.8	554.1	493.1	630.6	981.3	891.2	779.8	748.8	740.1
77.5°	630.6	542.5	498.9	506.7	439.8	572.5	941.6	847.6	737.2	700.4	690.7
80°	459.2	405.9	425.2	437.8	375.8	514.3	888.3	794.3	689.7	708.1	694.6
82.5°	294.5	261.6	344.8	357.4	312.9	455.3	830.2	738.2	622.9	565.7	552.2
85°	150.2	165.6	256.7	272.2	241.2	373.9	759.4	663.6	547.3	470.8	478.5
87.5°	84.3	113.3	163.7	183.1	170.5	287.8	616.1	547.3	446.6	363.2	319.7
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)