

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: P191571

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191571  
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-03-LED-E1-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18459.1 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

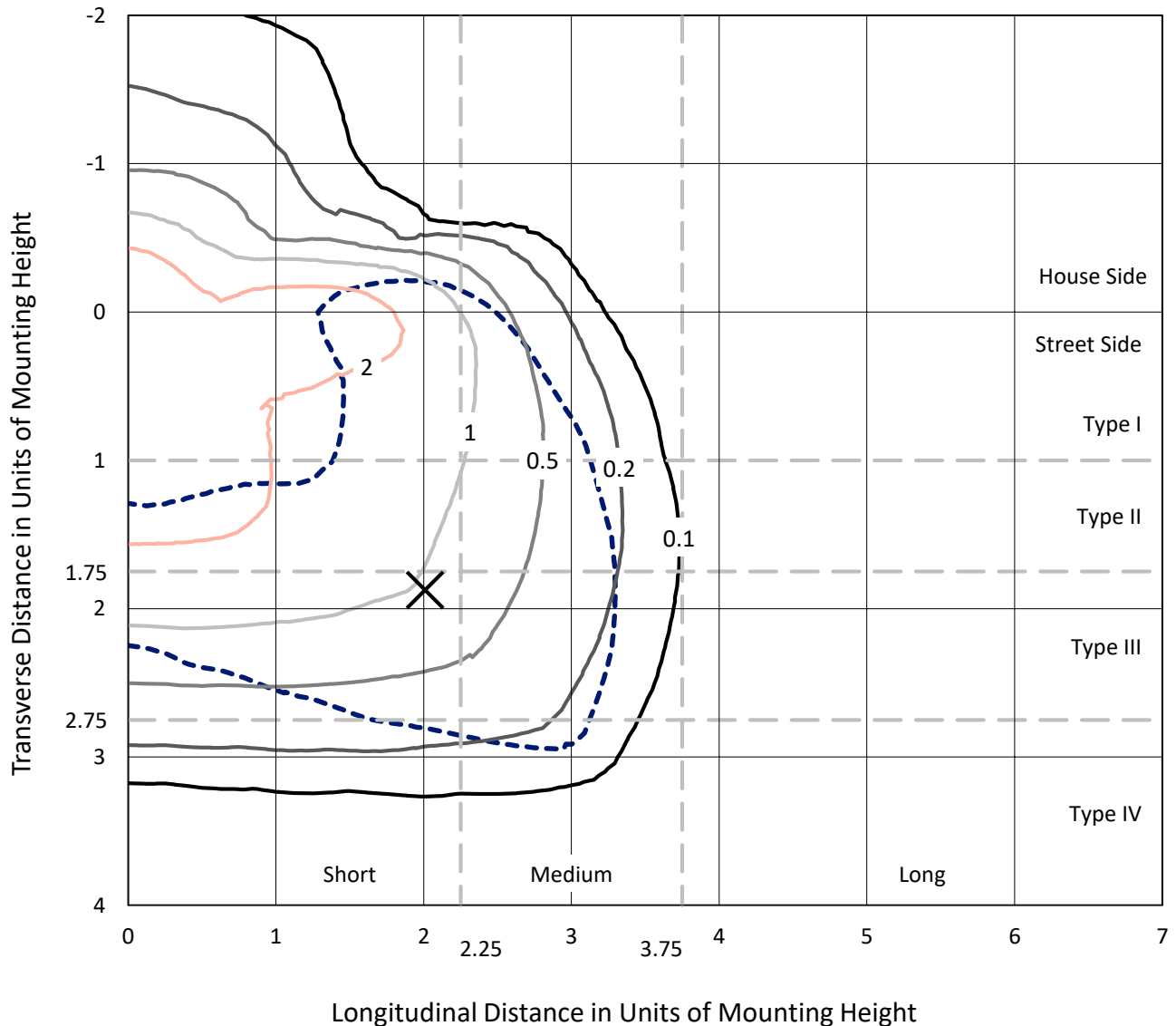
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

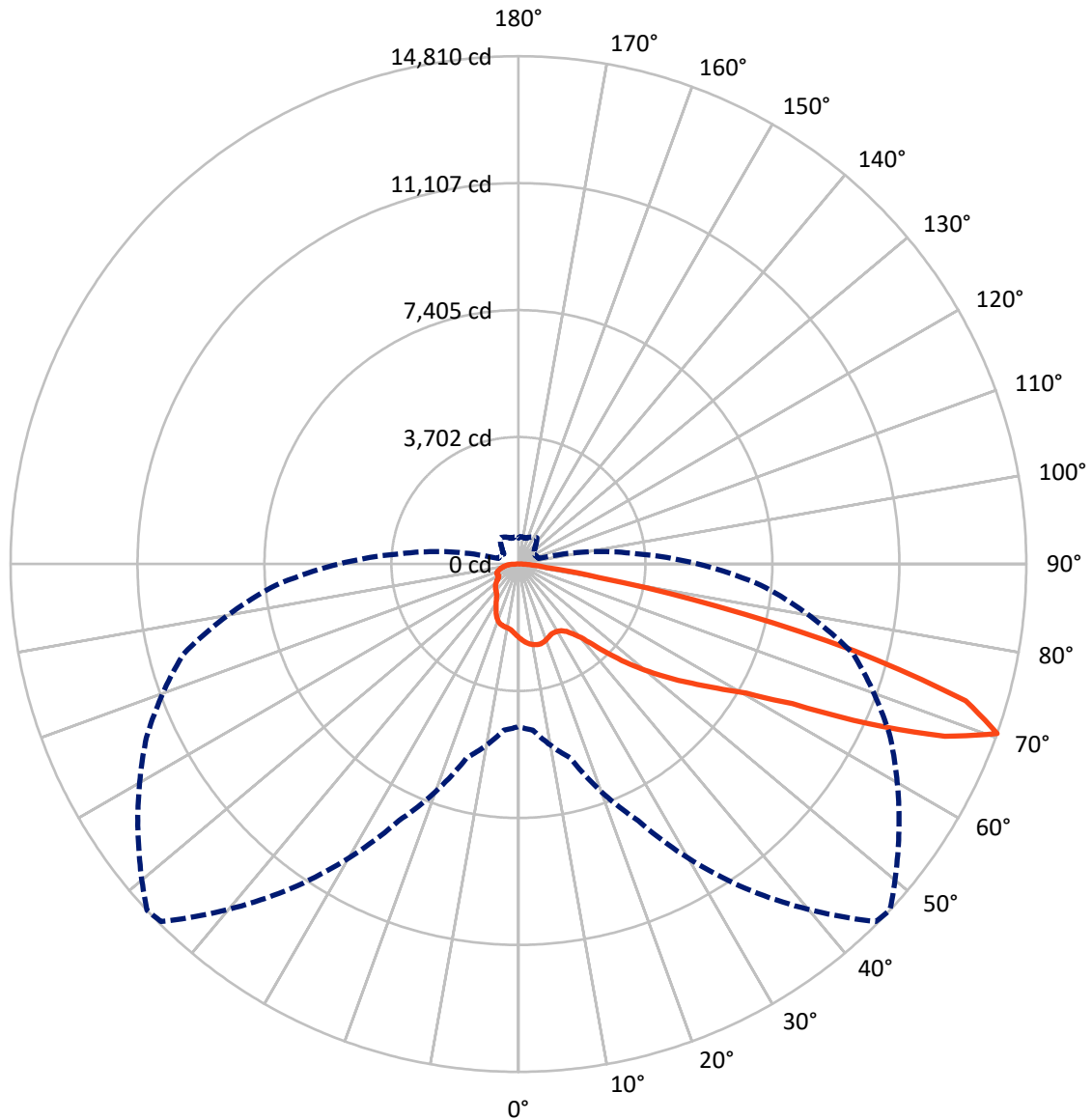
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type 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	3850.9	0.0	3850.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	14608.2	0.0	14608.2
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	18459.1	0.0	18459.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.2	1.1
10°-20°	602.1	3.3
20°-30°	889.1	4.8
30°-40°	1292.3	7.0
40°-50°	2325.7	12.6
50°-60°	4029.0	21.8
60°-70°	5750.5	31.2
70°-80°	2952.0	16.0
80°-90°	413.3	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°	18459.1	100.0
0°-180°	18459.1	100.0



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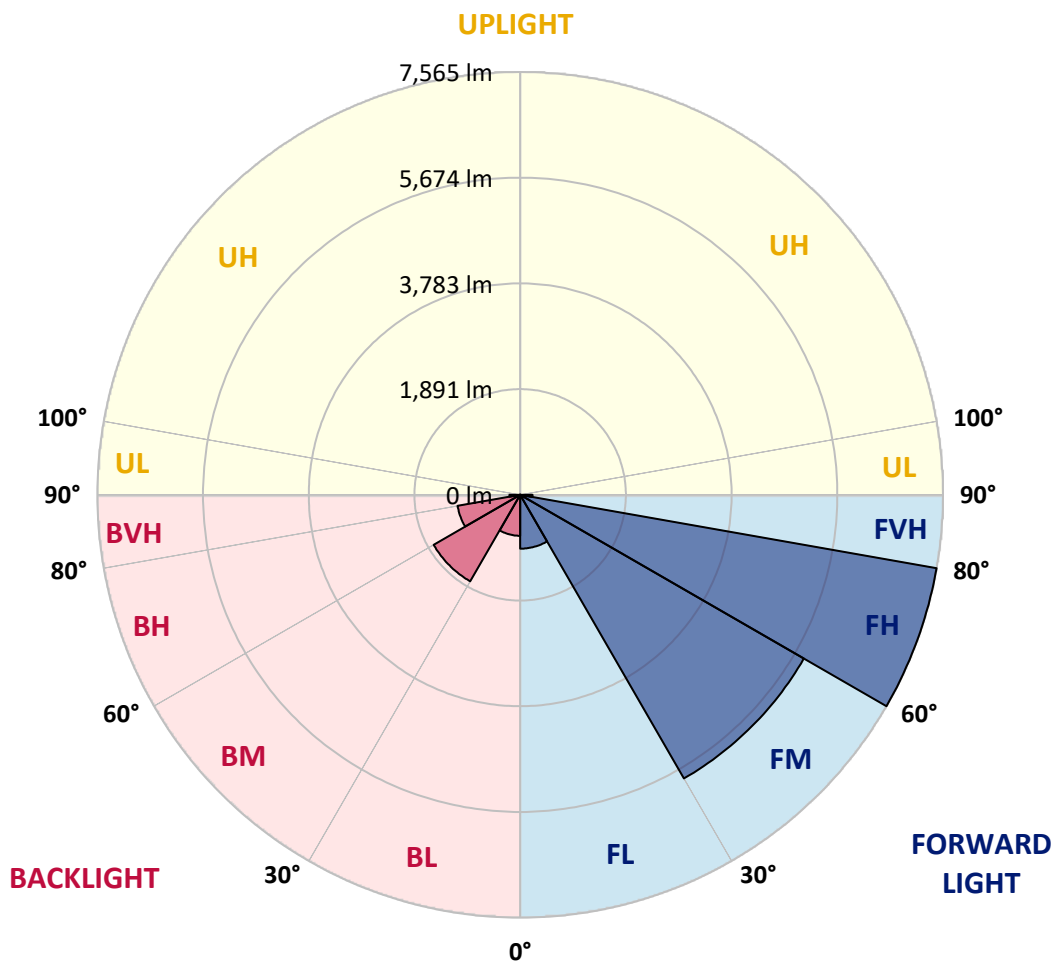
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	963.2	5.2			
FM	(30°-60°)	5859.5	31.7			
FH	(60°-80°)	7565.1	41.0			G4/12000
FVH	(80°-90°)	220.5	1.2			G2/225
BL	(0°-30°)	733.2	4.0	B2/1000		
BM	(30°-60°)	1787.5	9.7	B2/2500		
BH	(60°-80°)	1137.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	192.8	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°	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9
2.5°	2267.6	2263.1	2261.2	2257.7	2253.2	2230.7	2226.2	2210.1	2187.7	2164.3	2140.0
5°	2416.6	2415.7	2405.9	2387.9	2359.1	2309.7	2298.1	2258.6	2205.6	2154.4	2103.2
7.5°	2547.8	2539.7	2520.9	2484.8	2434.6	2367.2	2351.0	2296.3	2223.6	2153.5	2084.4
10°	2643.8	2639.3	2598.1	2548.7	2483.1	2408.5	2389.7	2328.6	2248.8	2159.8	2073.6
12.5°	2698.6	2689.6	2642.1	2582.7	2504.7	2431.9	2413.0	2351.0	2261.2	2159.8	2058.3
15°	2695.1	2688.7	2641.2	2576.5	2497.4	2433.7	2416.6	2354.6	2258.6	2150.9	2038.5
17.5°	2623.2	2625.9	2585.5	2521.7	2457.0	2408.5	2393.3	2335.8	2240.7	2132.9	2015.2
20°	2497.4	2510.0	2483.1	2426.5	2390.6	2357.4	2347.5	2299.0	2212.7	2106.8	1990.0
22.5°	2371.7	2383.4	2372.6	2325.1	2319.6	2299.9	2294.5	2259.5	2188.5	2090.6	1974.8
25°	2279.2	2290.0	2288.2	2246.9	2263.1	2262.2	2257.7	2240.7	2183.2	2090.6	1977.5
27.5°	2254.1	2257.7	2254.1	2216.3	2238.8	2256.8	2253.2	2250.5	2199.3	2116.7	2011.6
30°	2340.3	2334.9	2307.1	2230.7	2251.4	2276.6	2273.0	2274.7	2247.8	2184.9	2087.9
32.5°	2684.2	2660.0	2572.0	2357.4	2302.6	2316.1	2317.8	2347.5	2352.0	2290.0	2206.5
35°	3198.9	3171.9	3057.8	2696.8	2461.5	2414.9	2414.9	2459.8	2486.7	2440.9	2390.6
37.5°	3743.9	3714.3	3653.3	3167.4	2795.6	2586.3	2581.9	2613.3	2651.9	2662.7	2675.3
40°	4363.6	4332.2	4349.2	3695.4	3261.7	2883.6	2819.9	2797.4	2901.6	2970.8	3071.3
42.5°	5041.6	5027.3	5033.5	4283.7	3792.5	3328.2	3237.4	3121.6	3247.4	3370.3	3581.4
45°	5669.4	5681.9	5675.6	4913.2	4383.3	3870.5	3774.5	3549.9	3673.0	3884.0	4228.0
47.5°	6218.9	6166.9	6247.7	5601.1	5045.2	4477.7	4359.1	4058.3	4183.1	4443.5	5025.5
50°	6886.2	6879.0	6760.5	6518.9	5845.3	5087.4	4932.1	4583.6	4777.6	5139.5	6030.4
52.5°	7587.5	7457.3	7348.7	7232.9	6694.0	5712.5	5522.1	5107.2	5476.3	5931.6	7255.3
55°	7731.3	7672.8	7807.6	8002.4	7512.1	6361.7	6140.0	5763.6	6262.9	6836.8	8668.0
57.5°	8038.3	8037.5	8315.9	8663.5	8354.5	7050.6	6827.0	6556.6	7147.6	7874.1	10167.6
60°	8245.8	8304.2	8821.5	9496.0	9181.6	7846.2	7640.5	7471.7	8153.3	9033.5	11565.0
62.5°	8354.5	8433.5	9139.3	9833.6	10350.8	9170.9	8965.1	8721.8	9484.3	10305.1	12382.2
65°	7902.8	8058.2	9090.0	10125.5	11374.6	11318.0	11225.6	10798.1	11148.3	11309.9	12086.8
67.5°	6652.8	6811.6	8013.3	9853.4	12105.6	13389.0	13408.7	12678.6	12172.1	11396.2	10162.3
70°	4739.8	4864.7	5858.8	8261.1	11548.8	14742.3	14809.7	13545.2	11968.2	10106.5	7099.9
72.5°	2250.5	2326.8	3268.0	5376.6	9164.5	13507.5	13637.7	12438.8	10176.6	7482.5	3873.3
75°	827.1	850.5	1104.6	2287.3	5315.6	9961.1	10114.6	8916.7	6746.2	3725.1	1475.5
77.5°	495.7	511.0	619.6	965.4	2090.6	5693.6	5920.8	4849.4	2948.2	1386.6	725.6
80°	346.7	357.4	444.6	600.8	987.9	2169.7	2371.7	1979.3	1174.7	877.4	528.0
82.5°	234.4	239.8	312.5	405.9	656.4	775.0	836.1	880.0	792.1	652.8	335.0
85°	153.5	159.0	212.0	267.6	417.6	400.5	409.5	518.1	578.4	443.7	185.9
87.5°	88.0	91.6	127.6	142.8	204.8	169.7	171.5	273.0	370.0	299.0	113.1
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°	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9	2141.9
2.5°	2133.8	2122.1	2096.0	2079.9	2064.6	2061.0	2054.7	2053.8	2053.0	2053.0	2050.2
5°	2086.2	2066.4	2026.0	2003.6	1984.6	1982.9	1982.0	1986.5	1988.3	1990.0	1987.4
7.5°	2055.6	2028.7	1978.4	1946.1	1923.7	1918.2	1927.2	1947.9	1961.3	1966.7	1964.1
10°	2036.8	2003.6	1945.1	1910.2	1891.2	1888.6	1900.2	1924.5	1952.3	1963.1	1962.2
12.5°	2015.2	1977.5	1915.6	1878.8	1867.9	1873.3	1888.6	1911.1	1939.8	1956.8	1957.7
15°	1993.6	1949.6	1885.9	1853.6	1849.1	1856.2	1870.7	1887.7	1910.2	1927.2	1929.0
17.5°	1967.6	1921.8	1858.1	1824.8	1821.3	1824.8	1825.8	1834.7	1849.1	1865.2	1869.7
20°	1939.8	1893.1	1826.6	1793.4	1777.3	1762.9	1746.7	1748.5	1753.0	1769.2	1772.8
22.5°	1920.0	1873.3	1802.3	1756.6	1713.4	1670.4	1638.1	1633.6	1635.3	1648.8	1653.3
25°	1921.8	1872.4	1796.1	1717.0	1622.8	1553.7	1510.5	1503.3	1502.4	1512.3	1518.6
27.5°	1956.8	1907.5	1819.4	1676.6	1524.0	1421.6	1375.8	1370.4	1363.2	1365.9	1373.1
30°	2035.0	1989.1	1876.0	1635.3	1417.1	1292.3	1244.7	1239.3	1229.4	1225.0	1230.3
32.5°	2162.5	2124.8	1958.6	1595.8	1310.3	1181.8	1133.3	1121.7	1115.3	1110.0	1114.5
35°	2374.5	2358.3	2069.1	1552.7	1216.0	1096.5	1052.5	1034.5	1025.6	1035.4	1042.6
37.5°	2706.7	2715.7	2213.7	1485.3	1143.2	1039.9	1003.1	982.4	968.9	977.1	985.2
40°	3177.3	3183.5	2373.6	1390.2	1080.3	1006.7	967.2	948.4	929.5	915.1	914.2
42.5°	3795.1	3731.4	2530.7	1286.9	1007.6	986.0	942.0	918.7	890.0	850.5	842.4
45°	4528.0	4304.4	2650.2	1168.3	925.9	960.9	914.2	881.9	837.0	793.9	789.4
47.5°	5372.1	4919.5	2708.5	1045.4	849.6	924.1	880.0	828.9	772.3	750.7	748.1
50°	6403.1	5649.6	2736.3	925.9	783.1	875.5	830.7	770.5	722.9	718.4	715.8
52.5°	7576.8	6527.9	2745.3	828.0	728.3	812.7	790.2	731.9	694.2	697.8	697.8
55°	8805.4	7434.9	2623.2	757.1	678.0	748.1	763.3	716.7	685.2	699.6	704.9
57.5°	9933.3	8238.6	2238.8	702.3	630.4	698.7	753.5	731.0	709.4	767.8	771.4
60°	10799.0	8713.7	1672.1	652.8	595.4	681.6	779.5	785.8	791.2	930.4	949.2
62.5°	10980.4	8555.7	1149.5	614.3	579.2	696.0	827.1	828.0	821.7	918.7	930.4
65°	10147.9	7556.1	836.1	592.7	565.8	722.0	867.5	848.6	807.3	881.0	859.4
67.5°	8059.0	5692.7	696.0	576.5	546.1	720.3	910.6	867.5	799.2	863.1	828.0
70°	5231.1	3442.2	619.6	563.0	522.6	686.1	935.8	865.7	775.9	802.8	761.6
72.5°	2552.3	1539.2	568.5	543.3	498.4	638.5	934.9	849.6	751.7	749.8	727.4
75°	998.6	704.9	521.8	513.7	457.1	584.6	909.7	826.2	722.9	694.2	686.1
77.5°	584.6	502.9	462.5	469.6	407.7	530.7	872.9	785.8	683.4	649.3	640.3
80°	425.6	376.2	394.2	405.9	348.4	476.9	823.5	736.4	639.4	656.4	643.9
82.5°	273.0	242.4	319.7	331.3	290.1	422.1	769.7	684.4	577.5	524.5	511.9
85°	139.2	153.5	237.9	252.4	223.6	346.7	704.1	615.2	507.4	436.5	443.7
87.5°	78.2	105.1	151.8	169.7	158.0	266.7	571.1	507.4	414.0	336.8	296.3
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)