

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: P194902

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194902
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-04-LED-E1-T4W-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19264 lumens
Efficiency: N/A
Efficacy: 112.7 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): 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

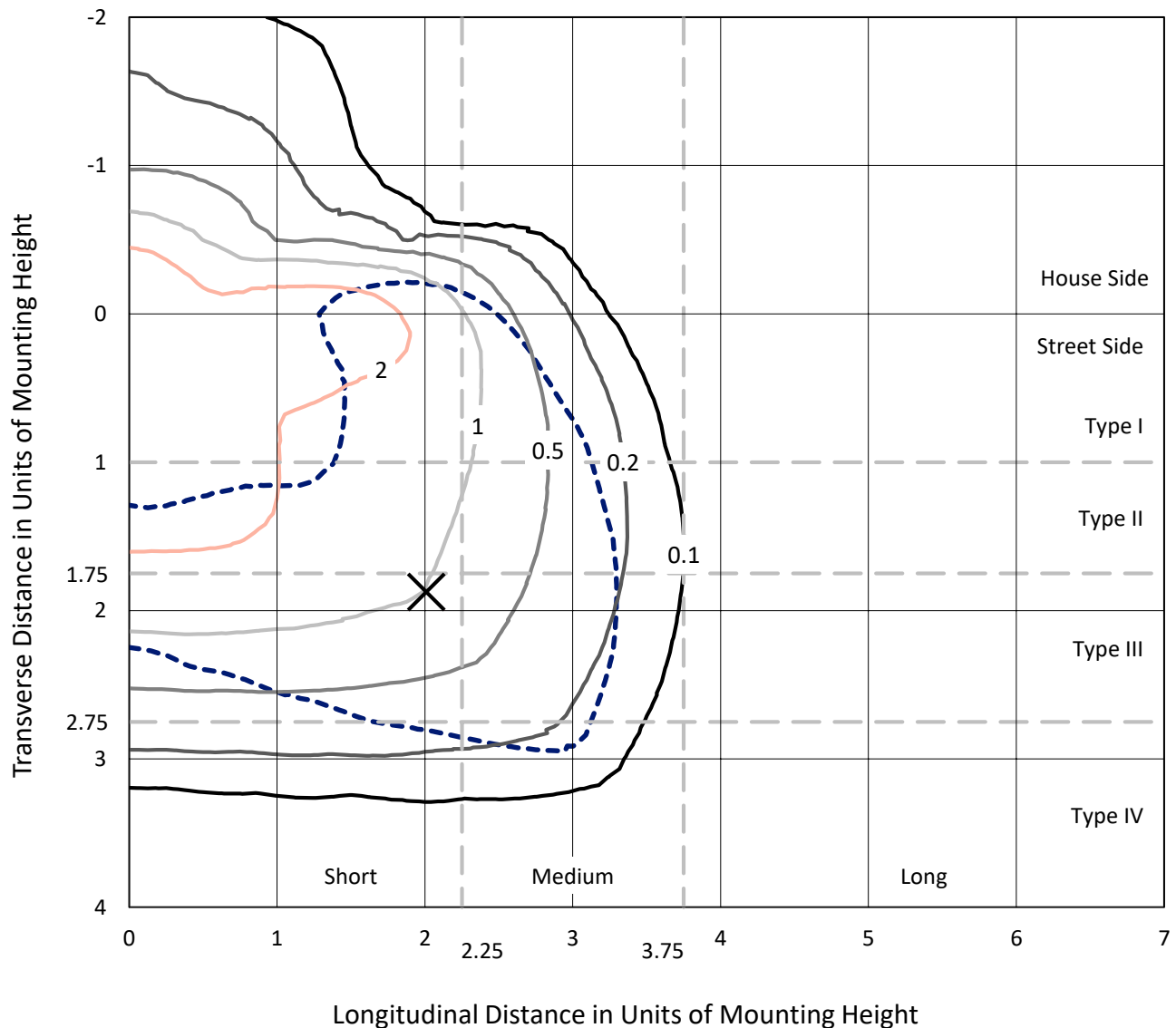


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

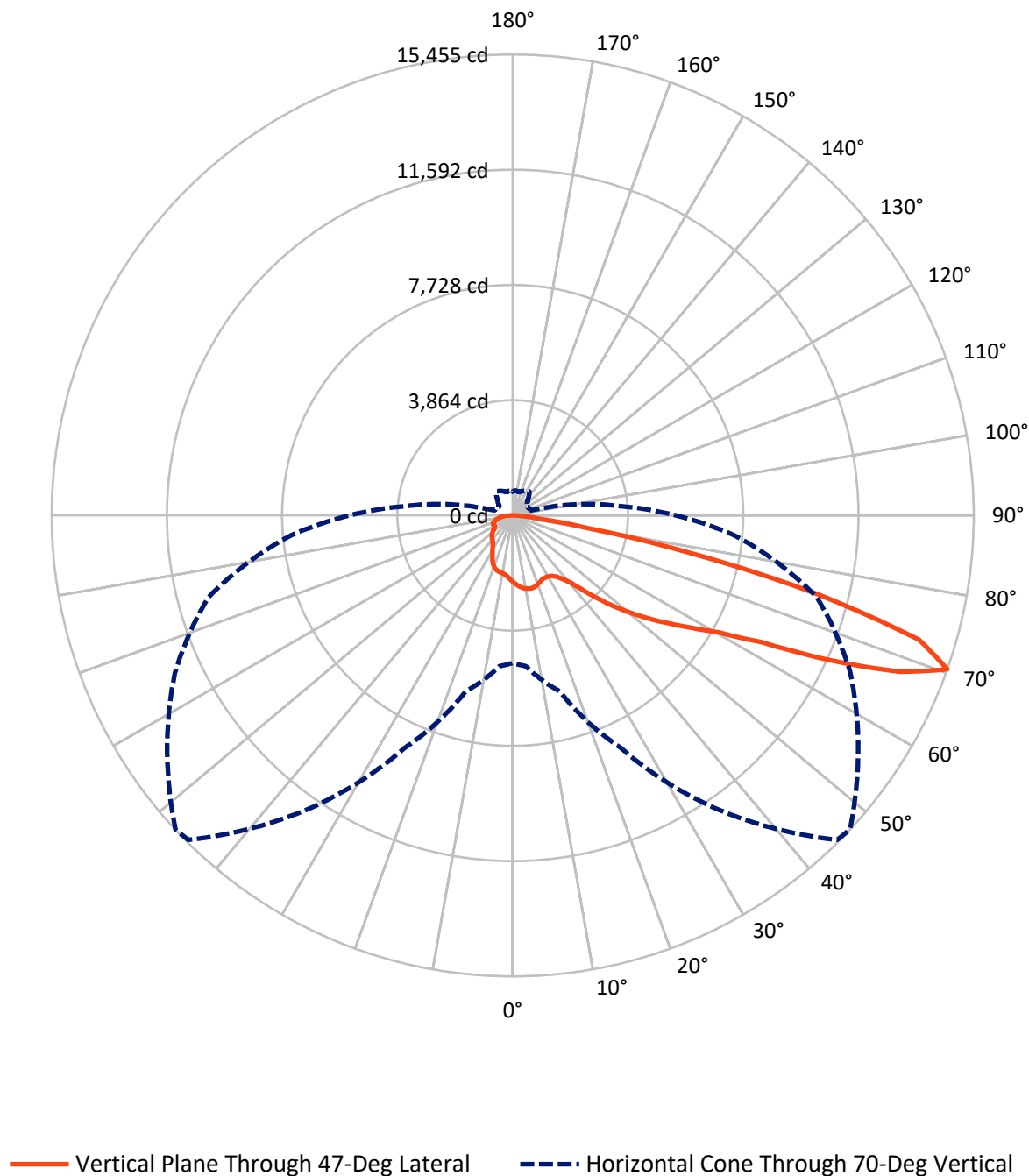


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4018.9	0.0	4018.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	15245.2	0.0	15245.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	19264.0	0.0	19264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	1.1
10°-20°	628.3	3.3
20°-30°	927.9	4.8
30°-40°	1348.6	7.0
40°-50°	2427.1	12.6
50°-60°	4204.6	21.8
60°-70°	6001.2	31.2
70°-80°	3080.7	16.0
80°-90°	431.3	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°	19264.0	100.0
0°-180°	19264.0	100.0

Coefficient of Utilization



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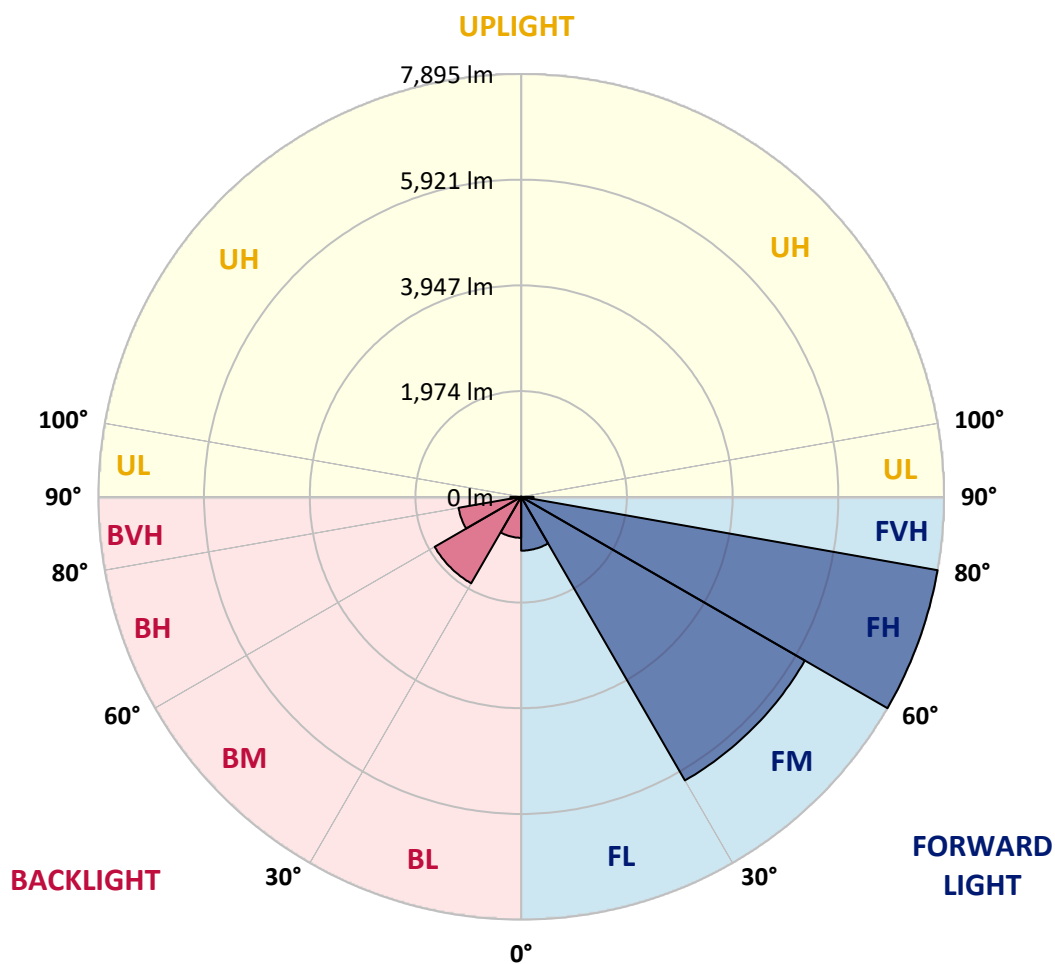
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.2	5.2			
FM	(30°-60°)	6114.9	31.7			
FH	(60°-80°)	7894.9	41.0			G4/12000
FVH	(80°-90°)	230.2	1.2			G3/500
BL	(0°-30°)	765.2	4.0	B2/1000		
BM	(30°-60°)	1865.4	9.7	B2/2500		
BH	(60°-80°)	1187.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	201.2	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°	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2
2.5°	2366.4	2361.7	2359.9	2356.1	2351.4	2328.0	2323.3	2306.5	2283.0	2258.7	2233.3
5°	2522.0	2521.1	2510.8	2492.0	2462.0	2410.5	2398.3	2357.1	2301.8	2248.3	2194.9
7.5°	2658.8	2650.4	2630.7	2593.2	2540.8	2470.5	2453.6	2396.4	2320.5	2247.4	2175.2
10°	2759.1	2754.4	2711.3	2659.8	2591.4	2513.6	2493.9	2430.2	2346.8	2254.0	2164.0
12.5°	2816.3	2806.9	2757.2	2695.4	2613.9	2537.9	2518.3	2453.6	2359.9	2254.0	2148.1
15°	2812.5	2806.0	2756.3	2688.8	2606.4	2539.8	2522.0	2457.3	2357.1	2244.6	2127.4
17.5°	2737.6	2740.4	2698.2	2631.7	2564.2	2513.6	2497.6	2437.7	2338.3	2225.9	2103.1
20°	2606.4	2619.5	2591.4	2532.3	2494.8	2460.2	2449.8	2399.2	2309.3	2198.7	2076.8
22.5°	2475.1	2487.3	2476.1	2426.4	2420.8	2400.2	2394.5	2358.0	2284.0	2181.8	2060.9
25°	2378.6	2389.9	2388.0	2344.9	2361.7	2360.8	2356.1	2338.3	2278.3	2181.8	2063.7
27.5°	2352.4	2356.1	2352.4	2313.0	2336.4	2355.2	2351.4	2348.6	2295.2	2209.0	2099.3
30°	2442.3	2436.7	2407.7	2328.0	2349.6	2375.8	2372.1	2373.9	2345.8	2280.2	2179.0
32.5°	2801.3	2776.0	2684.1	2460.2	2403.0	2417.0	2418.9	2449.8	2454.5	2389.9	2302.7
35°	3338.3	3310.2	3191.2	2814.4	2568.9	2520.1	2520.1	2567.0	2595.1	2547.3	2494.8
37.5°	3907.2	3876.3	3812.5	3305.5	2917.5	2699.1	2694.5	2727.3	2767.6	2778.8	2791.9
40°	4553.9	4521.1	4538.9	3856.6	3403.9	3009.4	2942.8	2919.4	3028.1	3100.3	3205.2
42.5°	5261.4	5246.4	5253.0	4470.4	3957.8	3473.3	3378.6	3257.7	3388.9	3517.3	3737.6
45°	5916.5	5929.7	5923.1	5127.4	4574.5	4039.3	3939.1	3704.8	3833.2	4053.4	4412.3
47.5°	6490.1	6435.8	6520.1	5845.3	5265.2	4672.9	4549.2	4235.2	4365.5	4637.3	5244.6
50°	7186.5	7179.0	7055.2	6803.1	6100.2	5309.2	5147.1	4783.5	4985.9	5363.6	6293.3
52.5°	7918.4	7782.5	7669.1	7548.2	6985.9	5961.5	5762.8	5329.9	5715.0	6190.2	7571.6
55°	8068.4	8007.4	8148.0	8351.4	7839.7	6639.1	6407.6	6015.0	6536.0	7134.9	9045.9
57.5°	8388.9	8387.9	8678.5	9041.2	8718.8	7358.0	7124.6	6842.5	7459.2	8217.4	10611.0
60°	8605.4	8666.3	9206.1	9910.0	9581.9	8188.3	7973.7	7797.5	8508.8	9427.3	12069.3
62.5°	8718.8	8801.3	9537.9	10262.3	10802.2	9570.7	9356.1	9102.1	9897.8	10754.4	12922.1
65°	8247.4	8409.5	9486.3	10566.9	11870.6	11811.5	11715.0	11268.9	11634.4	11803.1	12613.8
67.5°	6942.8	7108.7	8362.6	10283.0	12633.5	13972.7	13993.3	13231.4	12702.8	11893.1	10605.4
70°	4946.5	5076.8	6114.3	8621.3	12052.4	15385.1	15455.4	14135.8	12490.1	10547.3	7409.5
72.5°	2348.6	2428.3	3410.5	5611.0	9564.1	14096.4	14232.3	12981.2	10620.4	7808.8	4042.1
75°	863.2	887.5	1152.8	2387.1	5547.3	10395.4	10555.7	9305.5	7040.3	3887.5	1539.8
77.5°	517.3	533.3	646.7	1007.5	2181.8	5941.9	6179.0	5060.9	3076.8	1447.0	757.3
80°	361.8	373.0	463.9	627.0	1030.9	2264.3	2475.1	2065.6	1225.9	915.6	551.1
82.5°	244.6	250.2	326.1	423.6	685.1	808.8	872.5	918.5	826.6	681.3	349.6
85°	160.3	165.9	221.2	279.3	435.8	418.0	427.4	540.8	603.6	463.0	194.0
87.5°	91.8	95.6	133.1	149.0	213.7	177.1	179.0	284.9	386.1	312.1	118.1
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°	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2
2.5°	2226.8	2214.6	2187.4	2170.6	2154.6	2150.9	2144.3	2143.4	2142.4	2142.4	2139.6
5°	2177.1	2156.5	2114.3	2090.9	2071.2	2069.3	2068.4	2073.1	2075.0	2076.8	2074.0
7.5°	2145.3	2117.1	2064.7	2030.9	2007.5	2001.9	2011.2	2032.8	2046.8	2052.5	2049.7
10°	2125.6	2090.9	2030.0	1993.4	1973.7	1970.9	1983.1	2008.4	2037.5	2048.7	2047.8
12.5°	2103.1	2063.7	1999.0	1960.6	1949.4	1955.0	1970.9	1994.4	2024.4	2042.2	2043.1
15°	2080.6	2034.7	1968.1	1934.4	1929.7	1937.2	1952.2	1970.0	1993.4	2011.2	2013.1
17.5°	2053.4	2005.6	1939.1	1904.4	1900.6	1904.4	1905.3	1914.7	1929.7	1946.6	1951.3
20°	2024.4	1975.6	1906.3	1871.6	1854.7	1839.7	1822.9	1824.7	1829.4	1846.3	1850.0
22.5°	2003.7	1955.0	1881.0	1833.2	1788.2	1743.2	1709.5	1704.8	1706.6	1720.7	1725.4
25°	2005.6	1954.1	1874.4	1791.9	1693.5	1621.4	1576.4	1568.9	1567.9	1578.2	1584.8
27.5°	2042.2	1990.6	1898.8	1749.8	1590.4	1483.6	1435.8	1430.2	1422.7	1425.5	1433.0
30°	2123.7	2075.9	1957.8	1706.6	1478.9	1348.6	1299.0	1293.3	1283.0	1278.3	1284.0
32.5°	2256.8	2217.4	2044.0	1665.4	1367.4	1233.4	1182.7	1170.6	1164.0	1158.4	1163.1
35°	2478.0	2461.1	2159.3	1620.4	1269.0	1144.3	1098.4	1079.7	1070.3	1080.6	1088.1
37.5°	2824.7	2834.1	2310.2	1550.1	1193.1	1085.3	1046.9	1025.3	1011.2	1019.7	1028.1
40°	3315.8	3322.4	2477.0	1450.8	1127.5	1050.6	1009.4	989.7	970.0	955.0	954.1
42.5°	3960.6	3894.1	2641.0	1343.0	1051.5	1029.0	983.1	958.8	928.8	887.5	879.1
45°	4725.4	4492.0	2765.7	1219.3	966.3	1002.8	954.1	920.3	873.5	828.5	823.8
47.5°	5606.3	5134.0	2826.6	1090.9	886.6	964.4	918.5	865.0	806.0	783.5	780.7
50°	6682.2	5895.9	2855.7	966.3	817.2	913.8	866.9	804.1	754.4	749.8	746.9
52.5°	7907.2	6812.5	2865.0	864.1	760.1	848.2	824.7	763.8	724.5	728.2	728.2
55°	9189.3	7759.1	2737.6	790.1	707.6	780.7	796.6	747.9	715.1	730.1	735.7
57.5°	10366.4	8597.9	2336.4	732.9	657.9	729.1	786.3	762.9	740.4	801.3	805.1
60°	11269.8	9093.7	1745.1	681.3	621.4	711.3	813.5	820.1	825.7	970.9	990.6
62.5°	11459.2	8928.7	1199.6	641.0	604.5	726.3	863.2	864.1	857.5	958.8	970.9
65°	10590.4	7885.6	872.5	618.6	590.4	753.5	905.3	885.7	842.5	919.4	896.9
67.5°	8410.4	5940.9	726.3	601.7	569.8	751.6	950.3	905.3	834.1	900.6	864.1
70°	5459.2	3592.3	646.7	587.6	545.5	716.0	976.6	903.5	809.7	837.9	794.7
72.5°	2663.5	1606.4	593.2	567.0	520.1	666.3	975.6	886.6	784.4	782.6	759.1
75°	1042.2	735.7	544.5	536.1	477.0	610.1	949.4	862.2	754.4	724.5	716.0
77.5°	610.1	524.8	482.7	490.2	425.5	553.9	911.0	820.1	713.2	677.6	668.2
80°	444.2	392.7	411.4	423.6	363.6	497.7	859.4	768.5	667.3	685.1	672.0
82.5°	284.9	253.0	333.6	345.8	302.7	440.5	803.2	714.1	602.6	547.3	534.2
85°	145.3	160.3	248.4	263.4	233.4	361.8	734.8	642.0	529.5	455.5	463.0
87.5°	81.5	109.7	158.4	177.1	164.9	278.3	596.1	529.5	432.0	351.5	309.3
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)