

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: P193321

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193321
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19145.5 lumens
Efficiency: N/A
Efficacy: 100.2 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): 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



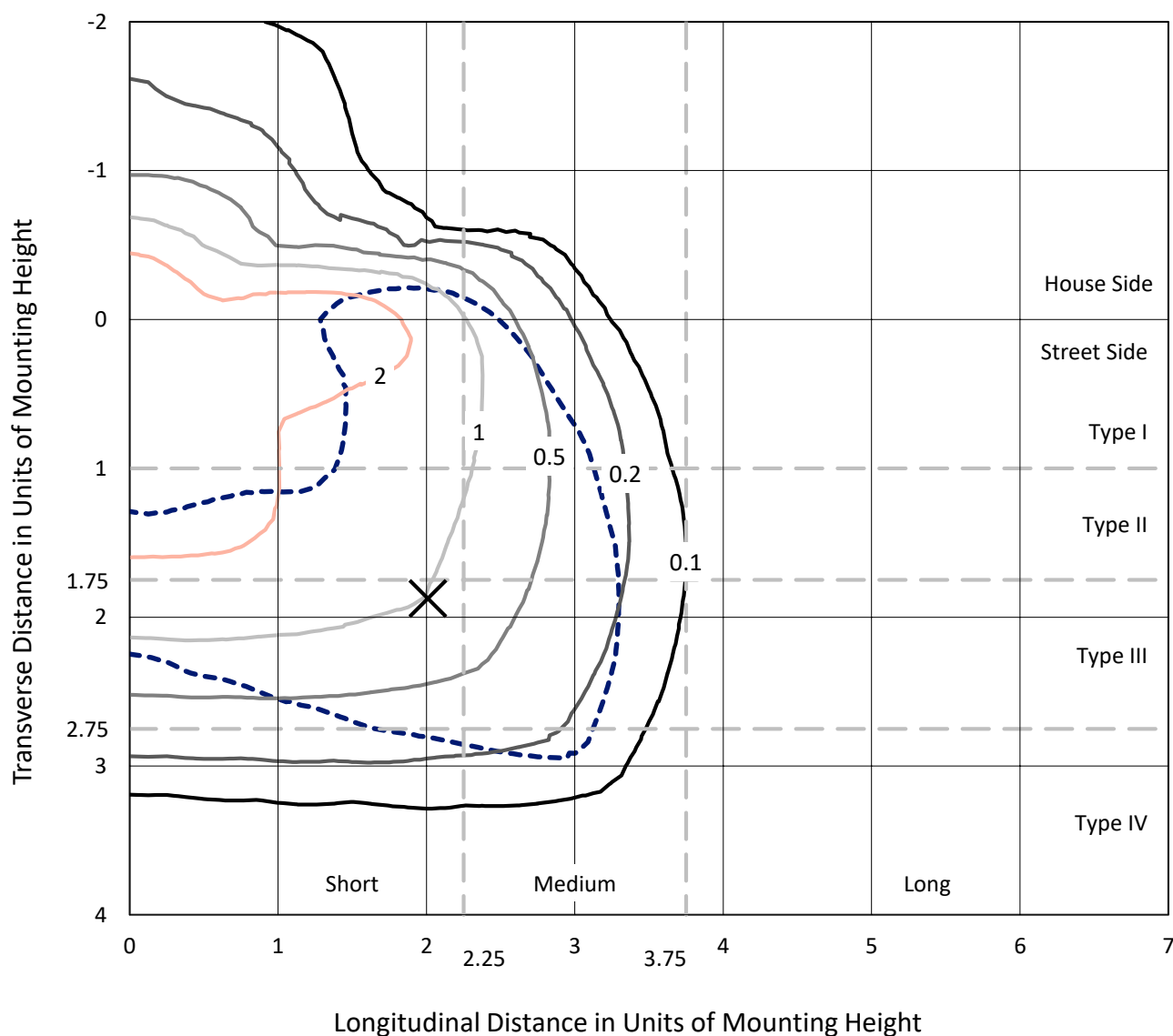
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

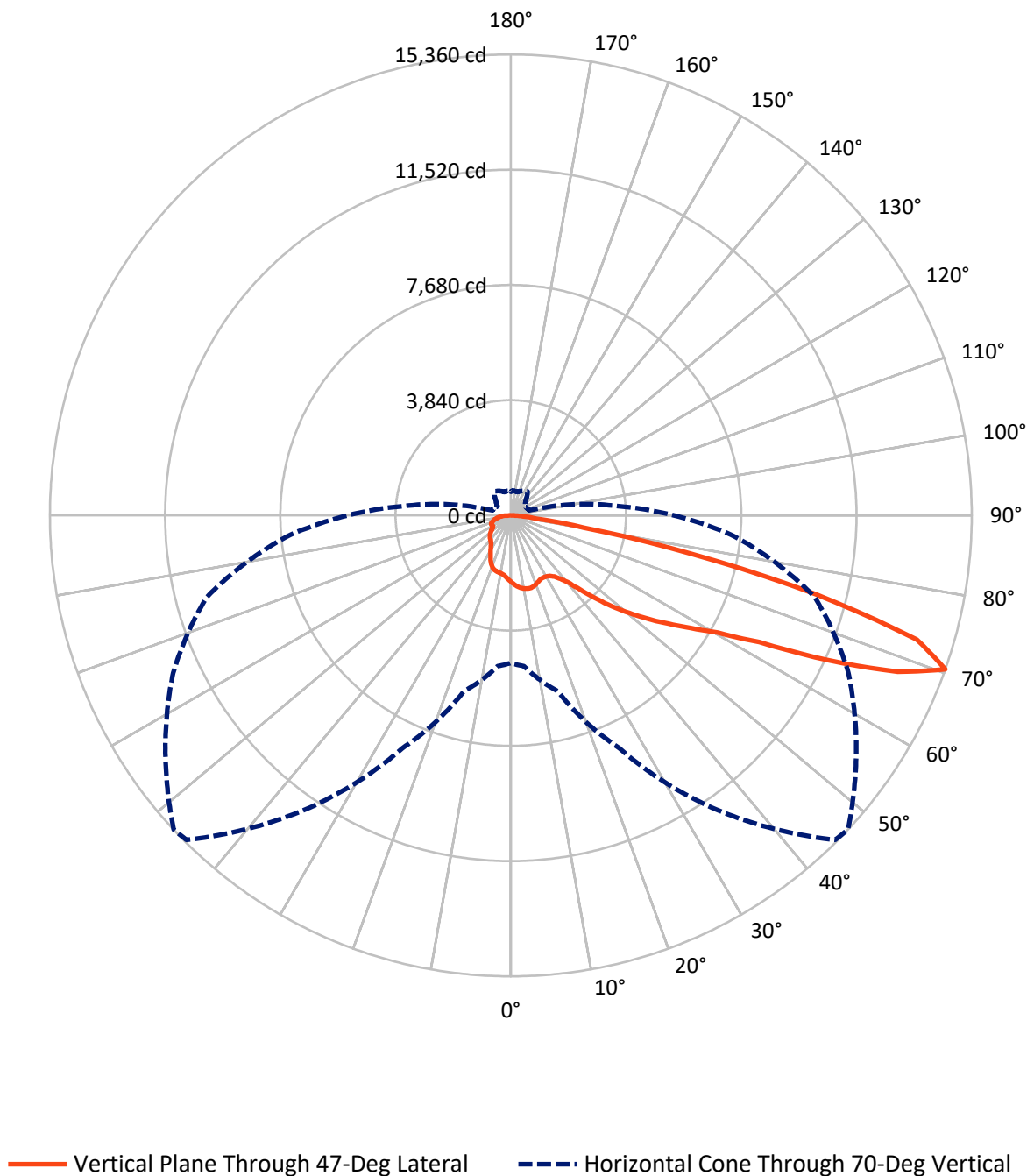


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3994.1	0.0	3994.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	15151.4	0.0	15151.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	19145.5	0.0	19145.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	1.1
10°-20°	624.5	3.3
20°-30°	922.2	4.8
30°-40°	1340.3	7.0
40°-50°	2412.1	12.6
50°-60°	4178.8	21.8
60°-70°	5964.3	31.2
70°-80°	3061.8	16.0
80°-90°	428.7	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°	19145.5	100.0
0°-180°	19145.5	100.0

Coefficient of Utilization



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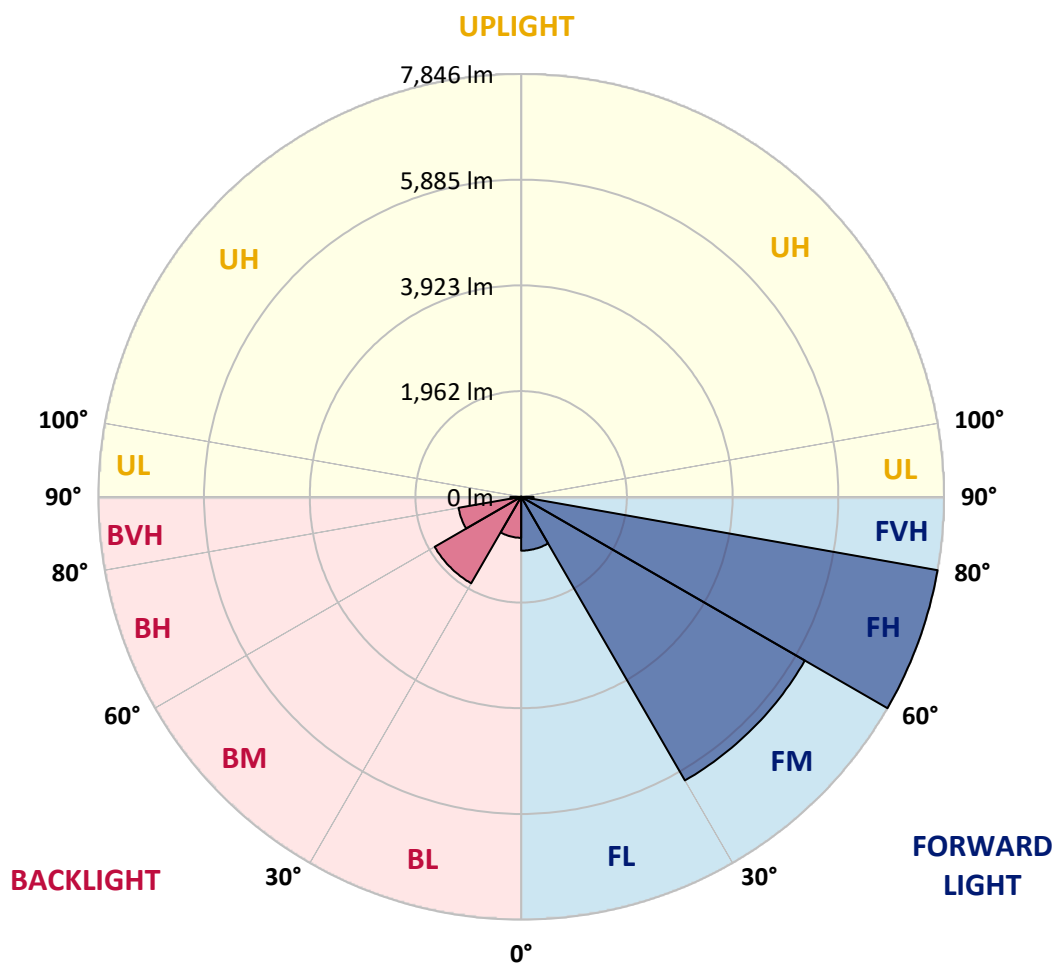
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	999.0	5.2			
FM	(30°-60°)	6077.3	31.7			
FH	(60°-80°)	7846.4	41.0			G4/12000
FVH	(80°-90°)	228.7	1.2			G3/500
BL	(0°-30°)	760.5	4.0	B2/1000		
BM	(30°-60°)	1854.0	9.7	B2/2500		
BH	(60°-80°)	1179.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	199.9	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°	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5
2.5°	2352.0	2347.2	2345.4	2341.7	2336.9	2313.7	2308.9	2292.3	2269.0	2244.7	2219.6
5°	2506.5	2505.6	2495.3	2476.7	2446.9	2395.6	2383.5	2342.5	2287.6	2234.5	2181.5
7.5°	2642.4	2634.1	2614.6	2577.3	2525.1	2455.3	2438.4	2381.7	2306.3	2233.6	2161.9
10°	2742.2	2737.5	2694.7	2643.4	2575.5	2498.1	2478.5	2415.1	2332.3	2240.2	2150.7
12.5°	2799.0	2789.6	2740.3	2678.8	2597.7	2522.4	2502.8	2438.4	2345.4	2240.2	2134.8
15°	2795.3	2788.8	2739.3	2672.3	2590.3	2524.2	2506.5	2442.3	2342.5	2230.7	2114.3
17.5°	2720.8	2723.5	2681.5	2615.4	2548.4	2498.1	2482.3	2422.8	2324.0	2212.2	2090.1
20°	2590.3	2603.3	2575.5	2516.8	2479.5	2445.0	2434.8	2384.5	2295.1	2185.1	2064.0
22.5°	2460.0	2472.0	2460.8	2411.5	2405.9	2385.4	2379.7	2343.5	2269.9	2168.4	2048.2
25°	2364.0	2375.2	2373.3	2330.5	2347.2	2346.3	2341.7	2324.0	2264.3	2168.4	2051.1
27.5°	2337.9	2341.7	2337.9	2298.9	2322.1	2340.7	2336.9	2334.3	2281.2	2195.3	2086.5
30°	2427.3	2421.7	2392.9	2313.7	2335.1	2361.2	2357.5	2359.4	2331.4	2266.1	2165.6
32.5°	2784.0	2758.9	2667.7	2445.0	2388.2	2402.2	2404.0	2434.8	2439.4	2375.2	2288.6
35°	3317.7	3289.8	3171.6	2797.1	2553.1	2504.7	2504.7	2551.2	2579.2	2531.6	2479.5
37.5°	3883.2	3852.4	3789.1	3285.2	2899.5	2682.6	2677.8	2710.5	2750.5	2761.7	2774.7
40°	4525.8	4493.3	4511.0	3832.9	3383.0	2990.9	2924.8	2901.4	3009.4	3081.2	3185.6
42.5°	5229.0	5214.2	5220.7	4442.9	3933.5	3451.9	3357.9	3237.7	3368.0	3495.6	3714.6
45°	5880.2	5893.2	5886.7	5095.9	4546.4	4014.5	3914.9	3681.9	3809.6	4028.5	4385.2
47.5°	6450.2	6396.1	6479.9	5809.4	5232.8	4644.2	4521.1	4209.1	4338.5	4608.8	5212.3
50°	7142.3	7134.8	7011.8	6761.3	6062.7	5276.5	5115.4	4754.1	4955.2	5330.6	6254.5
52.5°	7869.7	7734.7	7621.9	7501.7	6942.9	5924.9	5727.4	5297.1	5679.9	6152.2	7525.1
55°	8018.7	7958.2	8097.9	8300.0	7791.5	6598.2	6368.1	5977.9	6495.8	7091.0	8990.2
57.5°	8337.2	8336.4	8625.2	8985.6	8665.2	7312.7	7080.8	6800.4	7413.4	8166.8	10545.7
60°	8552.5	8613.0	9149.5	9848.9	9523.0	8137.9	7924.7	7749.5	8456.5	9369.3	11995.0
62.5°	8665.2	8747.1	9479.3	10199.3	10735.7	9511.8	9298.5	9046.1	9836.9	10688.2	12842.7
65°	8196.6	8357.8	9428.0	10501.9	11797.6	11739.0	11643.0	11199.6	11562.8	11730.5	12536.2
67.5°	6900.0	7064.9	8311.3	10219.7	12555.7	13886.8	13907.3	13150.0	12624.7	11819.8	10540.1
70°	4916.1	5045.6	6076.7	8568.3	11978.3	15290.4	15360.3	14048.9	12413.3	10482.4	7364.0
72.5°	2334.3	2413.3	3389.4	5576.5	9505.3	14009.8	14144.8	12901.4	10555.0	7760.6	4017.3
75°	857.9	882.0	1145.7	2372.3	5513.1	10331.4	10490.7	9248.2	6997.0	3863.6	1530.4
77.5°	514.2	530.0	642.7	1001.3	2168.4	5905.4	6140.9	5029.8	3057.9	1438.2	752.6
80°	359.6	370.7	461.1	623.1	1024.7	2250.3	2460.0	2052.9	1218.4	910.0	547.7
82.5°	243.1	248.7	324.2	420.9	680.9	803.8	867.2	912.9	821.5	677.2	347.5
85°	159.3	164.9	219.8	277.5	433.1	415.4	424.7	537.4	599.9	460.1	192.9
87.5°	91.2	95.0	132.3	148.0	212.4	176.0	177.9	283.2	383.7	310.2	117.4
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°	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5	2221.5
2.5°	2213.0	2201.0	2173.9	2157.3	2141.4	2137.6	2131.1	2130.2	2129.3	2129.3	2126.5
5°	2163.8	2143.2	2101.3	2078.0	2058.5	2056.6	2055.7	2060.3	2062.2	2064.0	2061.2
7.5°	2132.0	2104.2	2052.0	2018.4	1995.2	1989.5	1998.9	2020.3	2034.3	2039.9	2037.0
10°	2112.5	2078.0	2017.5	1981.2	1961.6	1958.8	1970.9	1996.0	2024.9	2036.1	2035.2
12.5°	2090.1	2051.1	1986.8	1948.5	1937.3	1942.9	1958.8	1982.1	2011.9	2029.6	2030.6
15°	2067.8	2022.2	1956.1	1922.5	1917.8	1925.2	1940.2	1957.9	1981.2	1998.9	2000.7
17.5°	2040.8	1993.3	1927.2	1892.7	1889.0	1892.7	1893.6	1903.0	1917.8	1934.6	1939.3
20°	2011.9	1963.5	1894.5	1860.0	1843.3	1828.5	1811.6	1813.4	1818.2	1834.9	1838.7
22.5°	1991.4	1942.9	1869.4	1821.9	1777.2	1732.6	1699.0	1694.3	1696.1	1710.1	1714.9
25°	1993.3	1942.1	1862.9	1780.9	1683.1	1611.3	1566.7	1559.2	1558.2	1568.5	1575.1
27.5°	2029.6	1978.3	1887.1	1739.0	1580.7	1474.5	1426.9	1421.4	1414.0	1416.8	1424.2
30°	2110.7	2063.2	1945.8	1696.1	1469.7	1340.3	1291.0	1285.4	1275.2	1270.4	1276.0
32.5°	2242.9	2203.8	2031.4	1655.2	1358.9	1225.8	1175.5	1163.4	1156.8	1151.3	1156.0
35°	2462.7	2446.0	2146.1	1610.5	1261.2	1137.3	1091.6	1073.0	1063.7	1073.9	1081.4
37.5°	2807.3	2816.7	2296.0	1540.5	1185.7	1078.6	1040.3	1019.0	1004.9	1013.4	1021.8
40°	3295.4	3302.0	2461.8	1441.9	1120.6	1044.2	1003.1	983.6	964.0	949.1	948.2
42.5°	3936.3	3870.1	2624.7	1334.7	1045.1	1022.6	977.1	952.8	923.0	882.0	873.6
45°	4696.3	4464.4	2748.6	1211.8	960.3	996.7	948.2	914.7	868.1	823.4	818.7
47.5°	5571.9	5102.4	2809.2	1084.2	881.1	958.4	912.9	859.8	801.1	778.7	775.8
50°	6641.1	5859.7	2838.1	960.3	812.3	908.2	861.6	799.1	749.8	745.1	742.3
52.5°	7858.5	6770.6	2847.4	858.8	755.4	842.9	819.7	759.2	720.0	723.8	723.8
55°	9132.8	7711.4	2720.8	785.2	703.2	775.8	791.7	743.3	710.7	725.6	731.2
57.5°	10302.6	8544.9	2322.1	728.4	653.9	724.6	781.4	758.1	735.9	796.4	800.1
60°	11200.5	9037.7	1734.4	677.2	617.6	706.9	808.5	815.0	820.6	965.0	984.5
62.5°	11388.6	8873.8	1192.2	637.1	600.8	721.8	857.9	858.8	852.2	952.8	965.0
65°	10525.3	7837.0	867.2	614.8	586.8	748.9	899.7	880.2	837.4	913.7	891.3
67.5°	8358.7	5904.4	721.8	597.9	566.3	747.0	944.4	899.7	829.0	895.2	858.8
70°	5425.6	3570.1	642.7	584.0	542.2	711.6	970.6	897.9	804.8	832.7	789.8
72.5°	2647.2	1596.5	589.6	563.6	516.9	662.2	969.6	881.1	779.6	777.7	754.4
75°	1035.8	731.2	541.2	532.7	474.0	606.4	943.6	856.9	749.8	720.0	711.6
77.5°	606.4	521.6	479.6	487.2	422.9	550.4	905.3	815.0	708.9	673.5	664.1
80°	441.5	390.3	408.8	420.9	361.4	494.6	854.1	763.8	663.2	680.9	667.8
82.5°	283.2	251.6	331.6	343.7	300.9	437.8	798.2	709.7	599.0	544.0	530.9
85°	144.3	159.3	246.8	261.7	231.9	359.6	730.3	638.1	526.3	452.7	460.1
87.5°	81.1	108.9	157.5	176.0	163.9	276.7	592.4	526.3	429.4	349.3	307.3
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)