

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: P193302

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193302
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 18630.9 lumens
Efficiency: N/A
Efficacy: 109.0 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



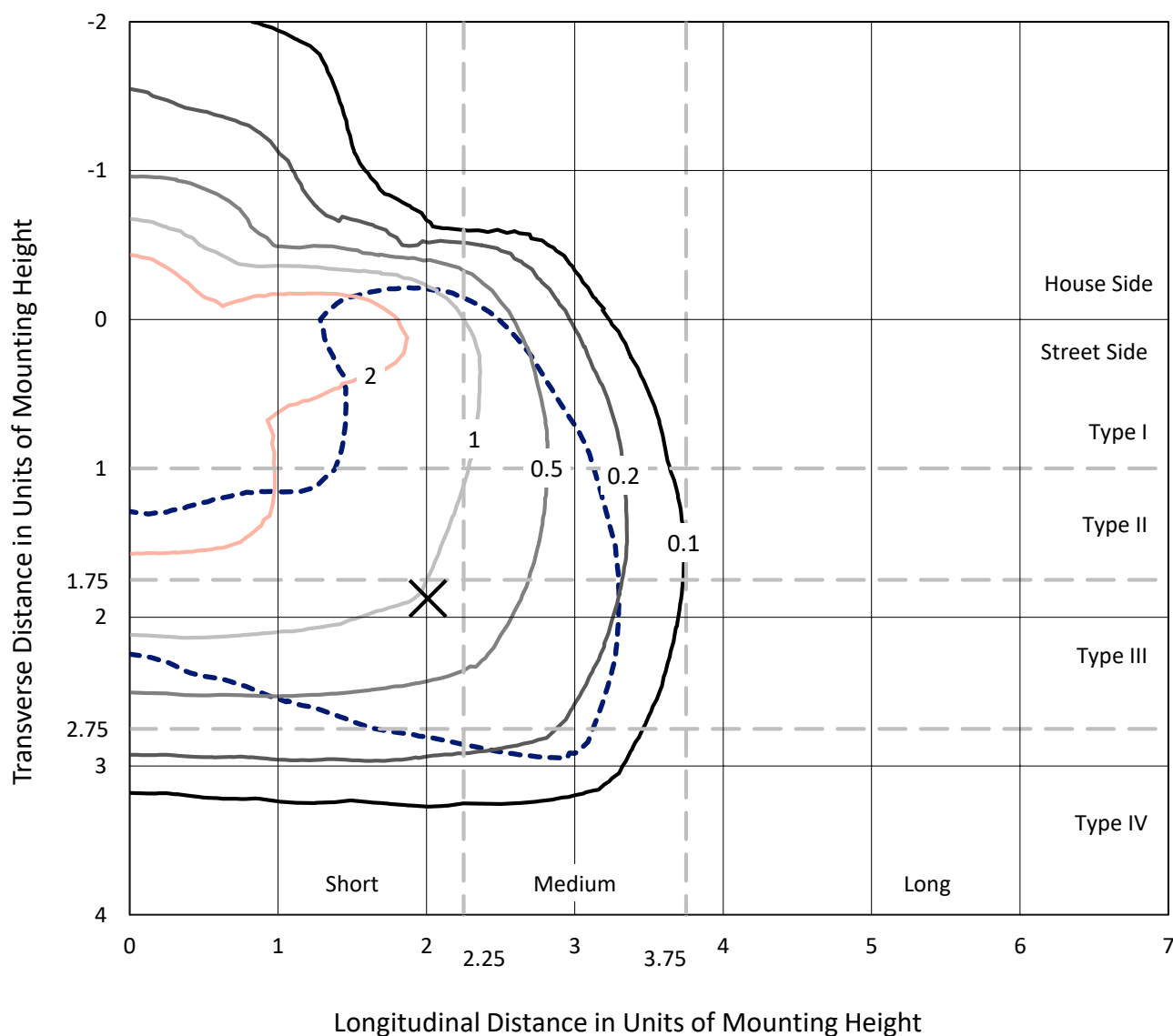
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

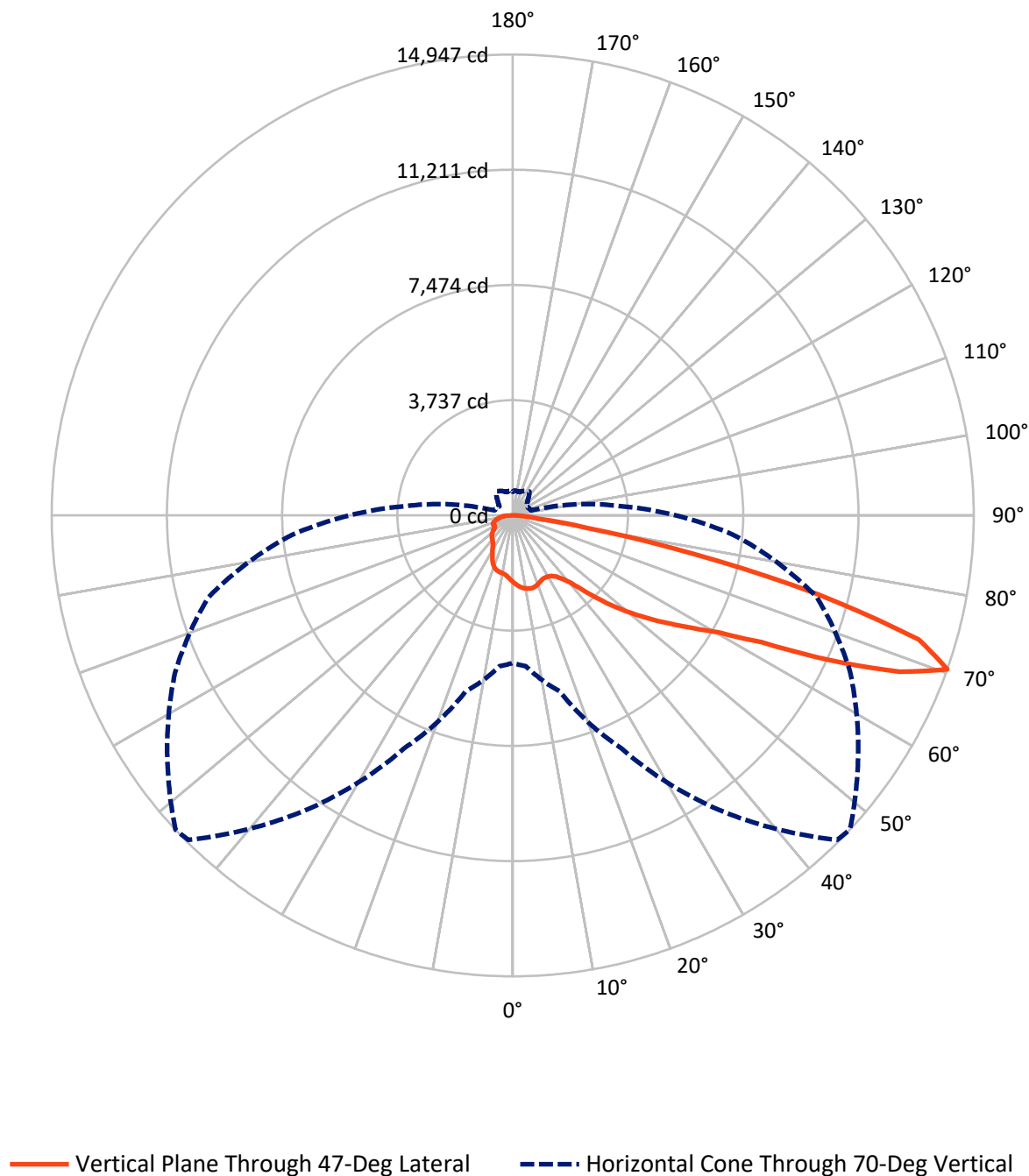


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3886.8	0.0	3886.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	14744.1	0.0	14744.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	18630.9	0.0	18630.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	1.1
10°-20°	607.7	3.3
20°-30°	897.4	4.8
30°-40°	1304.3	7.0
40°-50°	2347.3	12.6
50°-60°	4066.5	21.8
60°-70°	5804.0	31.2
70°-80°	2979.5	16.0
80°-90°	417.1	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°	18630.9	100.0
0°-180°	18630.9	100.0

Coefficient of Utilization



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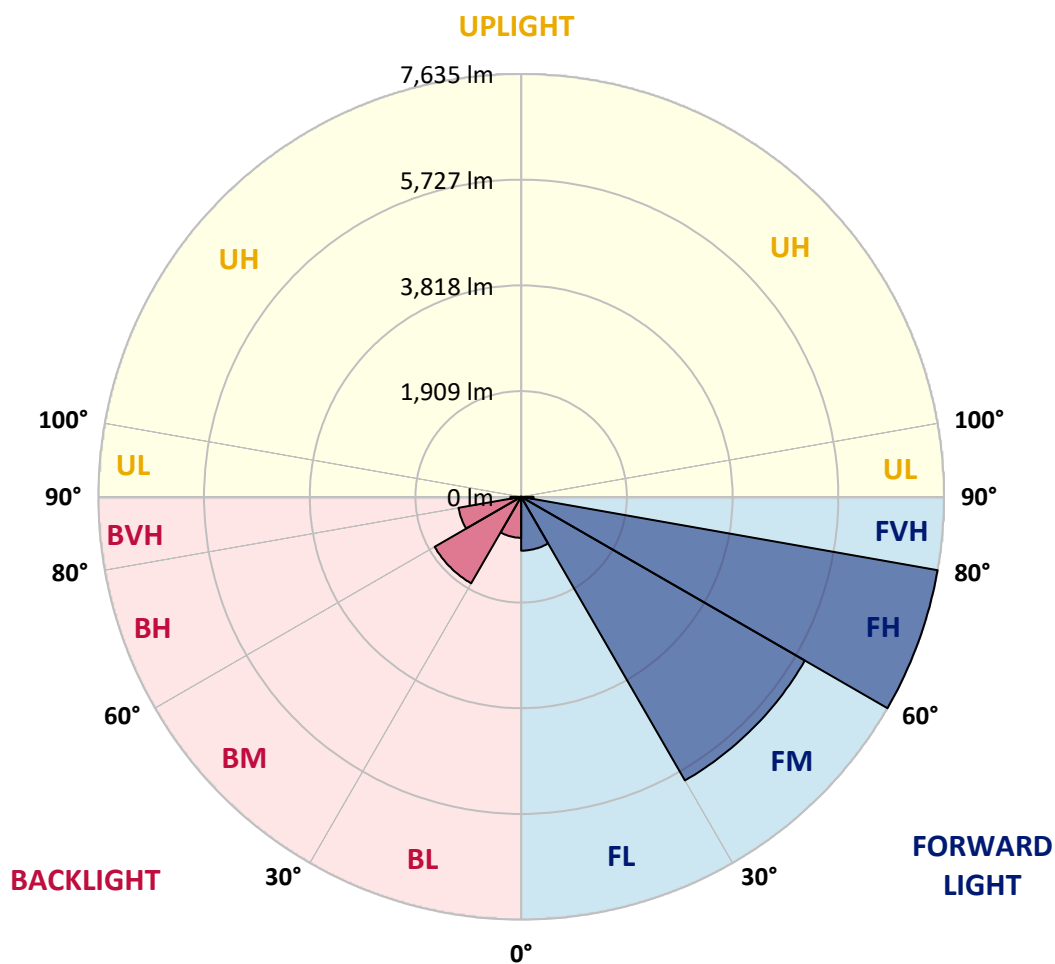
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	972.1	5.2			
FM	(30°-60°)	5914.0	31.7			
FH	(60°-80°)	7635.4	41.0			G4/12000
FVH	(80°-90°)	222.6	1.2			G2/225
BL	(0°-30°)	740.1	4.0	B2/1000		
BM	(30°-60°)	1804.1	9.7	B2/2500		
BH	(60°-80°)	1148.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	194.6	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°	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8
2.5°	2288.7	2284.2	2282.3	2278.7	2274.1	2251.5	2246.9	2230.6	2208.0	2184.4	2159.9
5°	2439.1	2438.2	2428.3	2410.2	2381.1	2331.3	2319.5	2279.5	2226.1	2174.5	2122.8
7.5°	2571.4	2563.3	2544.2	2508.0	2457.2	2389.3	2373.0	2317.7	2244.3	2173.5	2103.8
10°	2668.4	2664.0	2622.2	2572.4	2506.2	2430.9	2411.9	2350.2	2269.7	2179.9	2092.9
12.5°	2723.8	2714.6	2666.6	2606.8	2527.9	2454.5	2435.5	2373.0	2282.3	2179.9	2077.4
15°	2720.1	2713.8	2665.7	2600.5	2520.7	2456.3	2439.1	2376.6	2279.5	2170.9	2057.6
17.5°	2647.6	2650.3	2609.5	2545.2	2479.8	2430.9	2415.5	2357.6	2261.4	2152.7	2034.0
20°	2520.7	2533.4	2506.2	2449.0	2412.9	2379.3	2369.3	2320.3	2233.4	2126.4	2008.6
22.5°	2393.8	2405.6	2394.8	2346.7	2341.2	2321.3	2315.9	2280.5	2208.9	2110.2	1993.2
25°	2300.5	2311.3	2309.5	2267.7	2284.2	2283.2	2278.7	2261.4	2203.4	2110.2	1995.8
27.5°	2275.1	2278.7	2275.1	2237.0	2259.7	2277.7	2274.1	2271.4	2219.8	2136.3	2030.4
30°	2362.0	2356.6	2328.6	2251.5	2272.4	2297.7	2294.1	2295.9	2268.8	2205.3	2107.4
32.5°	2709.2	2684.7	2595.9	2379.3	2324.1	2337.6	2339.5	2369.3	2373.8	2311.3	2227.0
35°	3228.6	3201.4	3086.2	2721.8	2484.4	2437.3	2437.3	2482.6	2509.8	2463.6	2412.9
37.5°	3778.7	3748.9	3687.3	3196.9	2821.6	2610.4	2606.0	2637.6	2676.7	2687.4	2700.2
40°	4404.2	4372.4	4389.7	3729.8	3292.1	2910.4	2846.1	2823.5	2928.5	2998.4	3099.9
42.5°	5088.5	5074.0	5080.3	4323.5	3827.7	3359.0	3267.6	3150.6	3277.6	3401.7	3614.8
45°	5722.1	5734.8	5728.5	4958.9	4424.1	3906.6	3809.7	3583.0	3707.1	3920.2	4267.3
47.5°	6276.8	6224.3	6305.8	5653.2	5092.1	4519.3	4399.7	4096.0	4222.0	4484.9	5072.3
50°	6950.3	6943.0	6823.4	6579.6	5899.8	5134.7	4978.0	4626.2	4822.0	5187.3	6086.5
52.5°	7658.2	7526.8	7417.1	7300.1	6756.3	5765.6	5573.5	5154.8	5527.2	5986.8	7322.8
55°	7803.2	7744.3	7880.3	8076.9	7582.0	6420.9	6197.0	5817.3	6321.2	6900.4	8748.6
57.5°	8113.1	8112.3	8393.3	8744.0	8432.2	7116.2	6890.4	6617.7	7214.1	7947.3	10262.2
60°	8322.6	8381.5	8903.5	9584.2	9267.1	7919.2	7711.6	7541.3	8229.2	9117.4	11672.6
62.5°	8432.2	8512.0	9224.4	9925.1	10447.2	9256.1	9048.7	8802.9	9572.5	10400.9	12497.4
65°	7976.4	8133.2	9174.6	10219.7	11480.4	11423.4	11329.9	10898.5	11252.1	11415.2	12199.3
67.5°	6714.6	6875.0	8087.8	9945.0	12218.3	13513.5	13533.4	12796.6	12285.3	11502.2	10256.8
70°	4784.0	4910.0	5913.3	8338.0	11656.4	14879.5	14947.4	13671.2	12079.6	10200.7	7166.0
72.5°	2271.4	2348.5	3298.4	5426.6	9249.8	13633.2	13764.6	12554.6	10271.4	7552.1	3909.3
75°	834.7	858.3	1114.9	2308.6	5364.9	10053.8	10208.7	8999.6	6808.9	3759.7	1489.2
77.5°	500.3	515.7	625.4	974.4	2110.2	5746.6	5975.9	4894.6	2975.6	1399.5	732.4
80°	349.8	360.8	448.6	606.4	997.0	2189.9	2393.8	1997.7	1185.6	885.5	532.9
82.5°	236.5	242.0	315.4	409.7	662.5	782.2	843.8	888.3	799.4	659.0	338.0
85°	155.0	160.4	213.9	270.1	421.5	404.3	413.3	523.1	583.8	447.8	187.6
87.5°	88.8	92.5	128.7	144.1	206.6	171.3	173.1	275.6	373.4	301.9	114.1
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°	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8
2.5°	2153.6	2141.8	2115.6	2099.2	2083.8	2080.2	2073.8	2072.9	2072.0	2072.0	2069.3
5°	2105.5	2085.6	2044.8	2022.2	2003.2	2001.3	2000.4	2004.9	2006.8	2008.6	2005.9
7.5°	2074.8	2047.5	1996.8	1964.2	1941.5	1936.1	1945.2	1966.0	1979.6	1985.0	1982.3
10°	2055.7	2022.2	1963.3	1927.9	1908.9	1906.1	1917.9	1942.4	1970.5	1981.4	1980.5
12.5°	2034.0	1995.8	1933.4	1896.2	1885.3	1890.7	1906.1	1928.9	1957.8	1975.1	1976.0
15°	2012.2	1967.8	1903.4	1870.8	1866.2	1873.6	1888.0	1905.3	1927.9	1945.2	1947.0
17.5°	1985.9	1939.7	1875.3	1841.8	1838.2	1841.8	1842.6	1851.7	1866.2	1882.6	1887.1
20°	1957.8	1910.7	1843.6	1810.1	1793.8	1779.3	1762.9	1764.7	1769.4	1785.7	1789.2
22.5°	1937.9	1890.7	1819.1	1773.0	1729.5	1685.9	1653.3	1648.7	1650.6	1664.1	1668.7
25°	1939.7	1889.8	1812.8	1733.1	1637.9	1568.1	1524.6	1517.3	1516.4	1526.4	1532.7
27.5°	1975.1	1925.1	1836.3	1692.2	1538.2	1434.8	1388.5	1383.1	1375.9	1378.7	1385.9
30°	2053.8	2007.6	1893.5	1650.6	1430.3	1304.3	1256.3	1250.8	1240.8	1236.4	1241.7
32.5°	2182.6	2144.5	1976.8	1610.7	1322.5	1192.8	1143.8	1132.2	1125.7	1120.4	1124.9
35°	2396.5	2380.2	2088.4	1567.3	1227.3	1106.7	1062.3	1044.2	1035.1	1045.1	1052.2
37.5°	2731.9	2741.0	2234.3	1499.1	1153.9	1049.7	1012.4	991.6	978.0	986.2	994.4
40°	3206.9	3213.2	2395.6	1403.1	1090.4	1016.1	976.2	957.1	938.1	923.6	922.7
42.5°	3830.4	3766.0	2554.3	1298.9	1016.9	995.3	950.8	927.3	898.2	858.3	850.2
45°	4570.1	4344.3	2674.7	1179.2	934.5	969.9	922.7	890.1	844.8	801.3	796.7
47.5°	5422.1	4965.3	2733.6	1055.0	857.4	932.6	888.3	836.6	779.4	757.7	755.0
50°	6462.5	5702.1	2761.7	934.5	790.4	883.7	838.4	777.7	729.7	725.2	722.4
52.5°	7647.3	6588.7	2770.9	835.8	735.1	820.3	797.6	738.7	700.7	704.2	704.2
55°	8887.2	7504.0	2647.6	764.0	684.3	755.0	770.4	723.3	691.6	706.1	711.5
57.5°	10025.7	8315.2	2259.7	708.8	636.3	705.2	760.5	737.8	716.0	774.9	778.6
60°	10899.4	8794.9	1687.7	659.0	600.9	688.0	786.7	793.1	798.5	939.1	958.1
62.5°	11082.5	8635.3	1160.3	619.9	584.6	702.4	834.7	835.8	829.4	927.3	939.1
65°	10242.3	7626.4	843.8	598.2	571.0	728.8	875.6	856.6	814.8	889.2	867.4
67.5°	8134.1	5745.6	702.4	582.0	551.1	726.9	919.1	875.6	806.7	871.1	835.8
70°	5279.7	3474.2	625.4	568.3	527.5	692.4	944.4	873.7	783.2	810.2	768.6
72.5°	2576.0	1553.5	573.7	548.4	503.0	644.4	943.6	857.4	758.7	756.8	734.2
75°	1007.9	711.5	526.6	518.4	461.4	590.1	918.3	833.8	729.7	700.7	692.4
77.5°	590.1	507.6	466.7	474.0	411.5	535.7	881.0	793.1	689.8	655.3	646.3
80°	429.6	379.7	397.9	409.7	351.7	481.3	831.1	743.3	645.4	662.5	649.9
82.5°	275.6	244.7	322.7	334.5	292.9	426.0	776.9	690.6	582.8	529.4	516.7
85°	140.5	155.0	240.2	254.7	225.7	349.8	710.6	620.9	512.1	440.6	447.8
87.5°	78.8	106.1	153.2	171.3	159.5	269.3	576.5	512.1	417.8	339.9	299.2
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)