

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: P194893

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194893
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 19465 lumens
Efficiency: N/A
Efficacy: 120.2 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

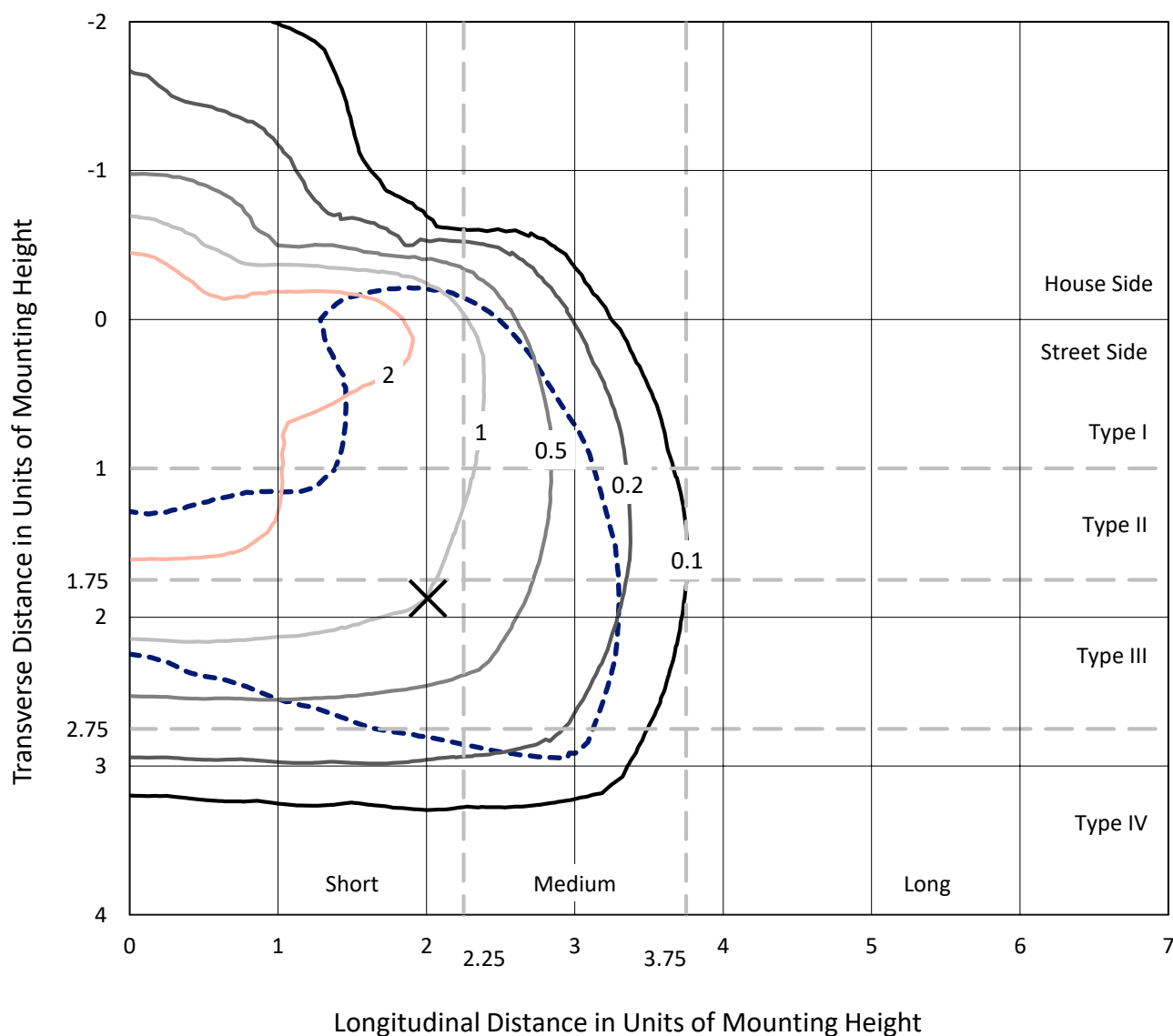


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

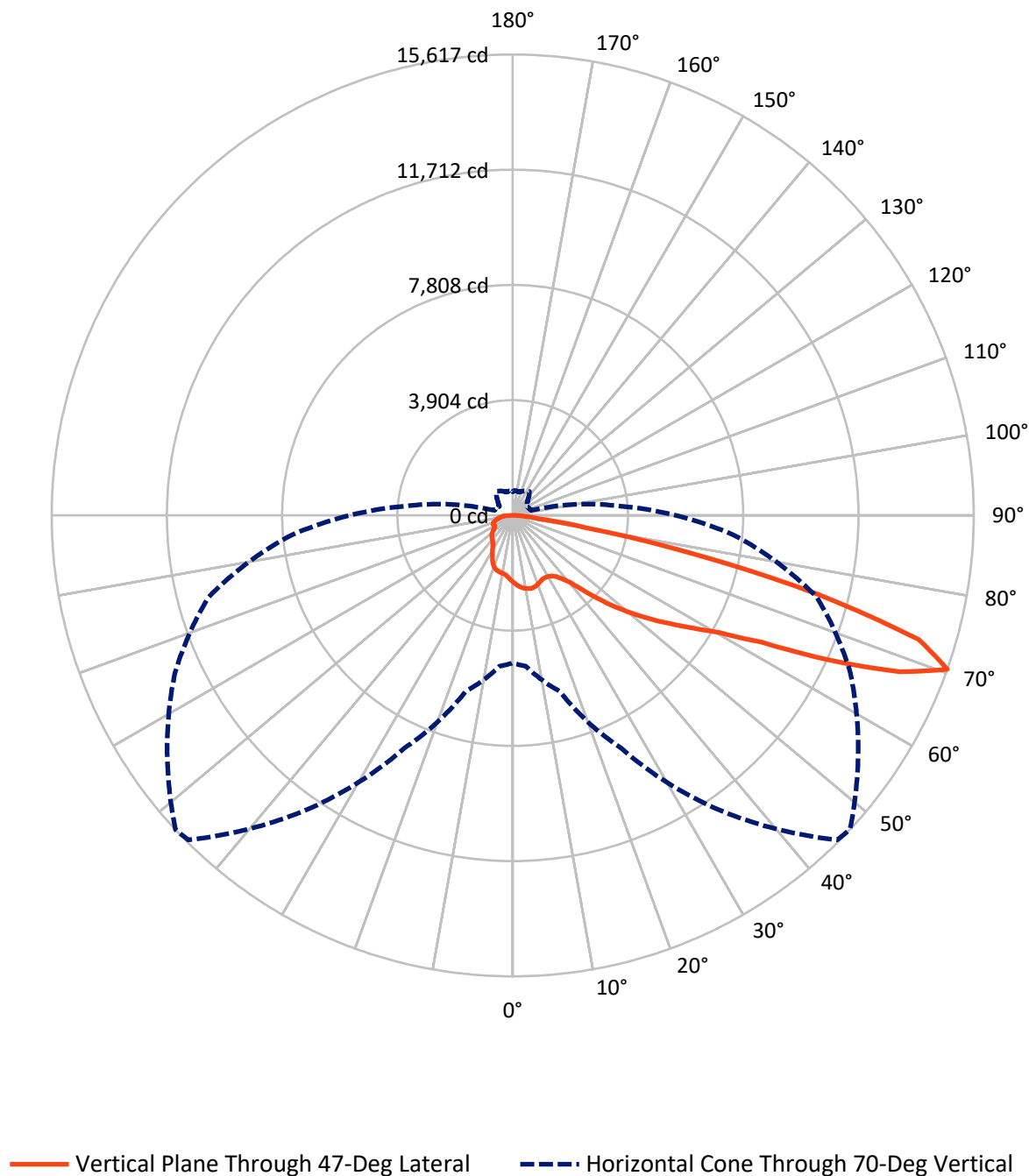


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4060.8	0.0	4060.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	15404.2	0.0	15404.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	19465.0	0.0	19465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	1.1
10°-20°	634.9	3.3
20°-30°	937.5	4.8
30°-40°	1362.7	7.0
40°-50°	2452.4	12.6
50°-60°	4248.5	21.8
60°-70°	6063.9	31.2
70°-80°	3112.9	16.0
80°-90°	435.8	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°	19465.0	100.0
0°-180°	19465.0	100.0

Coefficient of Utilization



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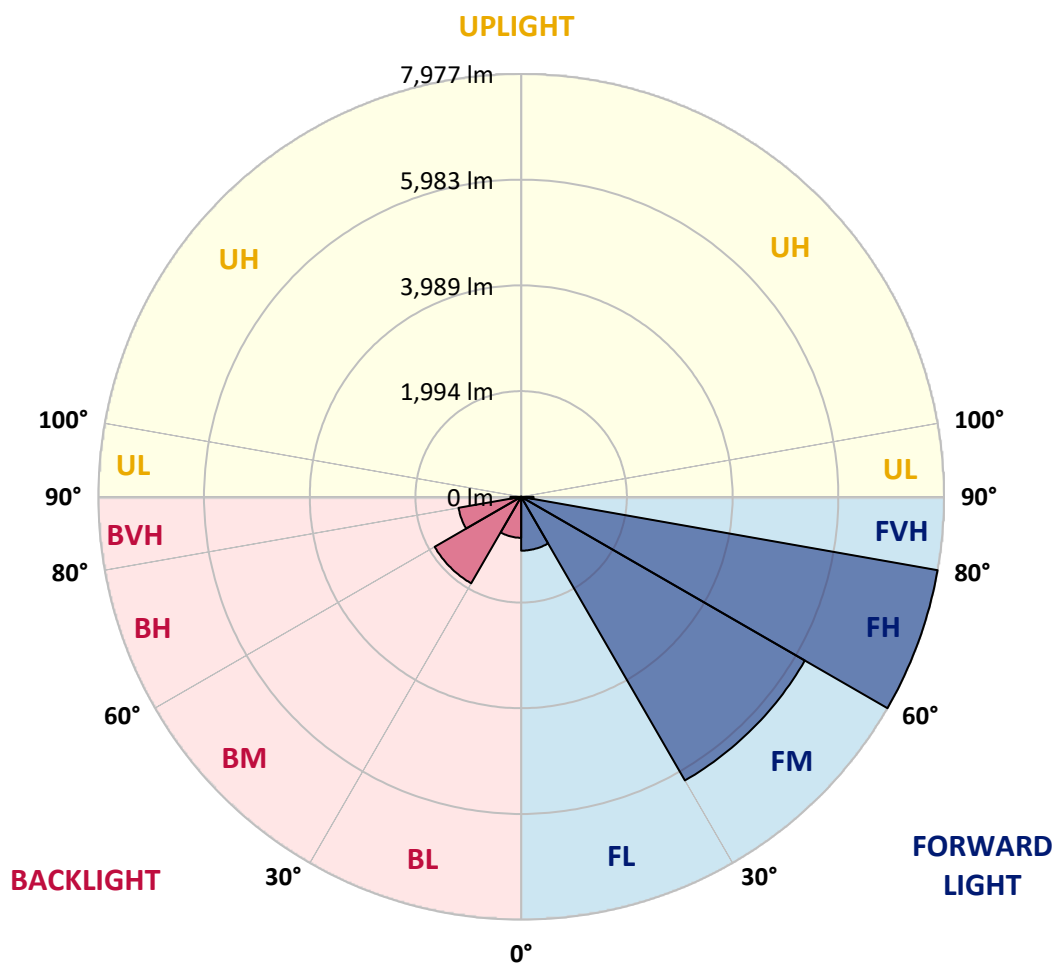
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.6	5.2			
FM	(30°-60°)	6178.7	31.7			
FH	(60°-80°)	7977.3	41.0			G4/12000
FVH	(80°-90°)	232.5	1.2			G3/500
BL	(0°-30°)	773.2	4.0	B2/1000		
BM	(30°-60°)	1884.9	9.7	B2/2500		
BH	(60°-80°)	1199.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	203.3	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°	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5
2.5°	2391.1	2386.4	2384.5	2380.7	2376.0	2352.3	2347.6	2330.5	2306.8	2282.2	2256.7
5°	2548.3	2547.4	2537.0	2518.0	2487.7	2435.6	2423.3	2381.7	2325.8	2271.8	2217.8
7.5°	2686.6	2678.1	2658.2	2620.3	2567.3	2496.2	2479.2	2421.4	2344.7	2270.9	2197.9
10°	2787.9	2783.2	2739.6	2687.5	2618.4	2539.8	2519.9	2455.5	2371.2	2277.5	2186.6
12.5°	2845.7	2836.2	2786.0	2723.5	2641.1	2564.4	2544.5	2479.2	2384.5	2277.5	2170.5
15°	2841.9	2835.3	2785.1	2716.9	2633.5	2566.3	2548.3	2483.0	2381.7	2268.0	2149.6
17.5°	2766.1	2769.0	2726.4	2659.1	2590.9	2539.8	2523.7	2463.1	2362.7	2249.1	2125.0
20°	2633.5	2646.8	2618.4	2558.7	2520.9	2485.8	2475.4	2424.3	2333.4	2221.6	2098.5
22.5°	2501.0	2513.3	2501.9	2451.7	2446.0	2425.2	2419.5	2382.6	2307.8	2204.6	2082.4
25°	2403.4	2414.8	2412.9	2369.3	2386.4	2385.4	2380.7	2362.7	2302.1	2204.6	2085.2
27.5°	2376.9	2380.7	2376.9	2337.1	2360.8	2379.8	2376.0	2373.1	2319.2	2232.0	2121.2
30°	2467.8	2462.1	2432.8	2352.3	2374.1	2400.6	2396.8	2398.7	2370.3	2304.0	2201.7
32.5°	2830.5	2805.0	2712.1	2485.8	2428.1	2442.3	2444.2	2475.4	2480.1	2414.8	2326.7
35°	3373.1	3344.7	3224.5	2843.8	2595.7	2546.4	2546.4	2593.8	2622.2	2573.9	2520.9
37.5°	3948.0	3916.7	3852.3	3340.0	2947.9	2727.3	2722.6	2755.7	2796.4	2807.8	2821.1
40°	4601.4	4568.2	4586.2	3896.8	3439.4	3040.8	2973.5	2949.8	3059.7	3132.6	3238.7
42.5°	5316.3	5301.2	5307.8	4517.1	3999.1	3509.5	3413.9	3291.7	3424.3	3554.0	3776.6
45°	5978.3	5991.5	5984.9	5180.9	4622.2	4081.5	3980.2	3743.4	3873.1	4095.7	4458.4
47.5°	6557.8	6502.9	6588.1	5906.3	5320.1	4721.6	4596.6	4279.4	4411.0	4685.7	5299.3
50°	7261.4	7253.9	7128.9	6874.1	6163.9	5364.6	5200.8	4833.4	5037.9	5419.6	6359.0
52.5°	8001.0	7863.7	7749.1	7627.0	7058.8	6023.7	5823.0	5385.5	5774.7	6254.8	7650.6
55°	8152.5	8091.0	8233.0	8438.5	7921.5	6708.4	6474.5	6077.7	6604.2	7209.4	9140.2
57.5°	8476.4	8475.5	8769.0	9135.5	8809.7	7434.7	7198.9	6913.9	7537.0	8303.1	10721.7
60°	8695.2	8756.7	9302.2	10013.4	9681.9	8273.8	8056.9	7878.9	8597.6	9525.7	12195.2
62.5°	8809.7	8893.1	9637.4	10369.4	10914.9	9670.6	9453.7	9197.1	10001.0	10866.6	13057.0
65°	8333.4	8497.2	9585.3	10677.2	11994.4	11934.8	11837.2	11386.5	11755.8	11926.3	12745.4
67.5°	7015.2	7182.8	8449.9	10390.3	12765.3	14118.5	14139.3	13369.5	12835.4	12017.2	10716.0
70°	4998.2	5129.8	6178.1	8711.3	12178.2	15545.6	15616.6	14283.3	12620.4	10657.3	7486.8
72.5°	2373.1	2453.6	3446.1	5669.6	9663.9	14243.5	14380.8	13116.6	10731.2	7890.2	4084.3
75°	872.2	896.8	1164.8	2412.0	5605.2	10503.9	10665.8	9402.6	7113.7	3928.1	1555.9
77.5°	522.7	538.8	653.4	1018.0	2204.6	6003.8	6243.4	5113.7	3108.9	1462.1	765.2
80°	365.5	376.9	468.8	633.5	1041.7	2287.9	2501.0	2087.1	1238.6	925.2	556.8
82.5°	247.2	252.8	329.5	428.0	692.2	817.2	881.6	928.0	835.2	688.5	353.2
85°	161.9	167.6	223.5	282.2	440.3	422.4	431.8	546.4	609.9	467.8	196.0
87.5°	92.8	96.6	134.5	150.6	215.9	179.0	180.9	287.9	390.2	315.3	119.3
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°	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5
2.5°	2250.0	2237.7	2210.3	2193.2	2177.1	2173.3	2166.7	2165.7	2164.8	2164.8	2162.0
5°	2199.8	2179.0	2136.4	2112.7	2092.8	2090.9	2090.0	2094.7	2096.6	2098.5	2095.7
7.5°	2167.6	2139.2	2086.2	2052.1	2028.4	2022.7	2032.2	2054.0	2068.2	2073.9	2071.0
10°	2147.7	2112.7	2051.2	2014.2	1994.3	1991.5	2003.8	2029.4	2058.7	2070.1	2069.2
12.5°	2125.0	2085.2	2019.9	1981.1	1969.7	1975.4	1991.5	2015.2	2045.5	2063.5	2064.4
15°	2102.3	2055.9	1988.7	1954.6	1949.8	1957.4	1972.6	1990.6	2014.2	2032.2	2034.1
17.5°	2074.8	2026.5	1959.3	1924.3	1920.5	1924.3	1925.2	1934.7	1949.8	1966.9	1971.6
20°	2045.5	1996.2	1926.2	1891.1	1874.1	1858.9	1841.9	1843.8	1848.5	1865.5	1869.3
22.5°	2024.6	1975.4	1900.6	1852.3	1806.8	1761.4	1727.3	1722.6	1724.4	1738.7	1743.4
25°	2026.5	1974.5	1894.0	1810.6	1711.2	1638.3	1592.8	1585.2	1584.3	1594.7	1601.3
27.5°	2063.5	2011.4	1918.6	1768.0	1607.0	1499.1	1450.8	1445.1	1437.5	1440.4	1447.9
30°	2145.9	2097.6	1978.2	1724.4	1494.3	1362.7	1312.5	1306.8	1296.4	1291.7	1297.4
32.5°	2280.3	2240.6	2065.4	1682.8	1381.6	1246.2	1195.1	1182.8	1176.1	1170.5	1175.2
35°	2503.8	2486.8	2181.8	1637.3	1282.2	1156.3	1109.9	1090.9	1081.5	1091.9	1099.4
37.5°	2854.2	2863.7	2334.3	1566.3	1205.5	1096.6	1057.8	1036.0	1021.8	1030.3	1038.8
40°	3350.4	3357.0	2502.9	1465.9	1139.2	1061.6	1019.9	1000.0	980.1	965.0	964.0
42.5°	4001.9	3934.7	2668.6	1357.0	1062.5	1039.8	993.4	968.8	938.5	896.8	888.3
45°	4774.7	4538.9	2794.5	1232.0	976.3	1013.3	964.0	929.9	882.6	837.1	832.4
47.5°	5664.8	5187.6	2856.1	1102.3	895.8	974.4	928.0	874.1	814.4	791.7	788.8
50°	6752.0	5957.4	2885.4	976.3	825.8	923.3	876.0	812.5	762.3	757.6	754.7
52.5°	7989.7	6883.6	2894.9	873.1	768.0	857.0	833.3	771.8	732.0	735.8	735.8
55°	9285.1	7840.0	2766.1	798.3	715.0	788.8	804.9	755.7	722.5	737.7	743.4
57.5°	10474.5	8687.6	2360.8	740.5	664.8	736.8	794.5	770.8	748.1	809.7	813.5
60°	11387.4	9188.5	1763.3	688.5	627.8	718.8	822.0	828.6	834.3	981.1	1001.0
62.5°	11578.7	9021.9	1212.1	647.7	610.8	733.9	872.2	873.1	866.5	968.8	981.1
65°	10700.9	7967.9	881.6	625.0	596.6	761.4	914.8	894.9	851.3	929.0	906.3
67.5°	8498.2	6002.9	733.9	608.0	575.8	759.5	960.2	914.8	842.8	910.0	873.1
70°	5516.2	3629.8	653.4	593.8	551.1	723.5	986.8	912.9	818.2	846.6	803.0
72.5°	2691.3	1623.1	599.4	572.9	525.6	673.3	985.8	895.8	792.6	790.7	767.1
75°	1053.0	743.4	550.2	541.7	482.0	616.5	959.3	871.2	762.3	732.0	723.5
77.5°	616.5	530.3	487.7	495.3	429.9	559.7	920.5	828.6	720.7	684.7	675.2
80°	448.9	396.8	415.7	428.0	367.4	502.8	868.4	776.5	674.2	692.2	679.0
82.5°	287.9	255.7	337.1	349.4	305.9	445.1	811.6	721.6	608.9	553.0	539.8
85°	146.8	161.9	250.9	266.1	235.8	365.5	742.4	648.7	535.0	460.2	467.8
87.5°	82.4	110.8	160.0	179.0	166.7	281.3	602.3	535.0	436.6	355.1	312.5
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)