

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: P194112

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194112
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 19457 lumens
Efficiency: N/A
Efficacy: 86.5 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

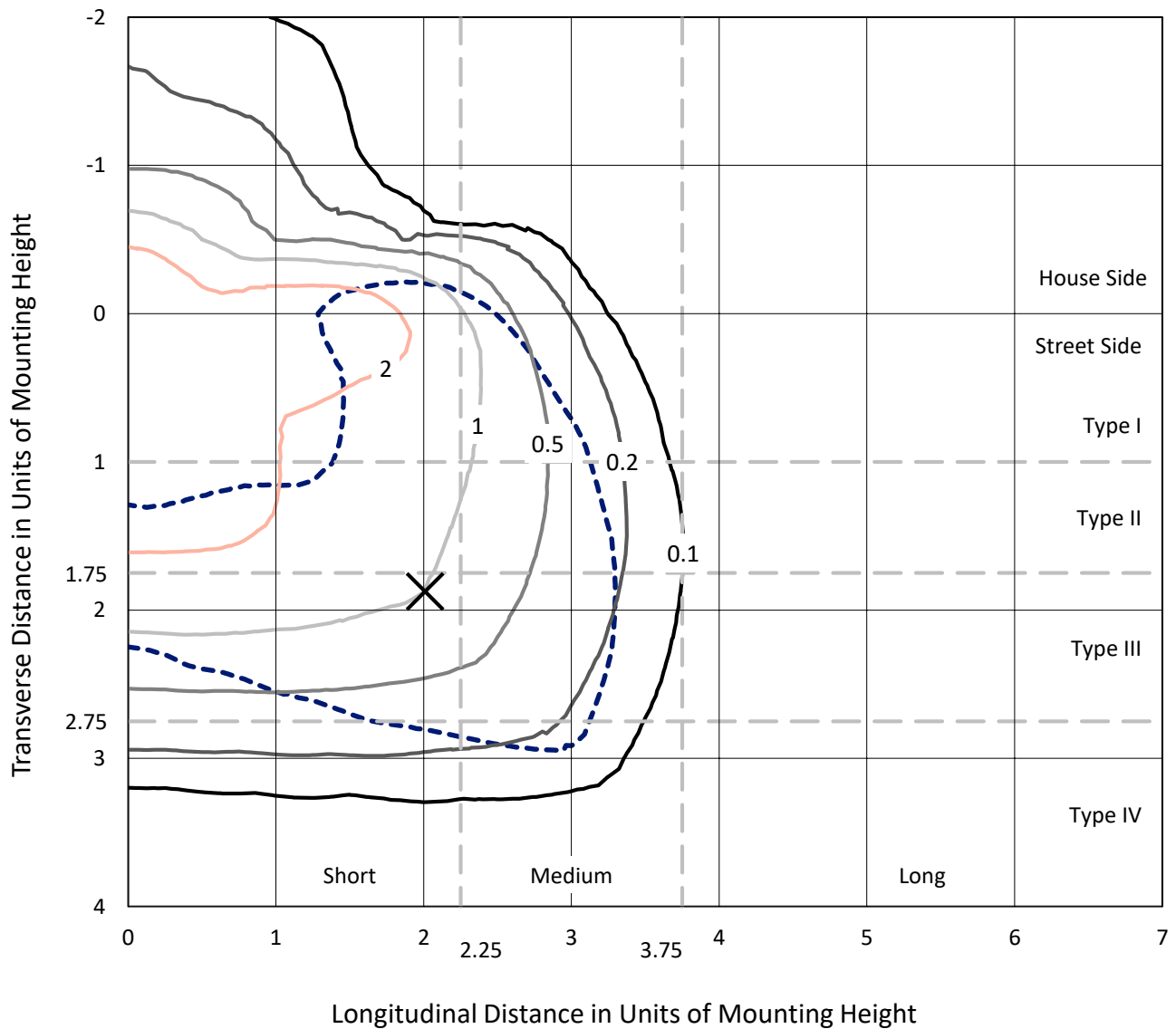
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

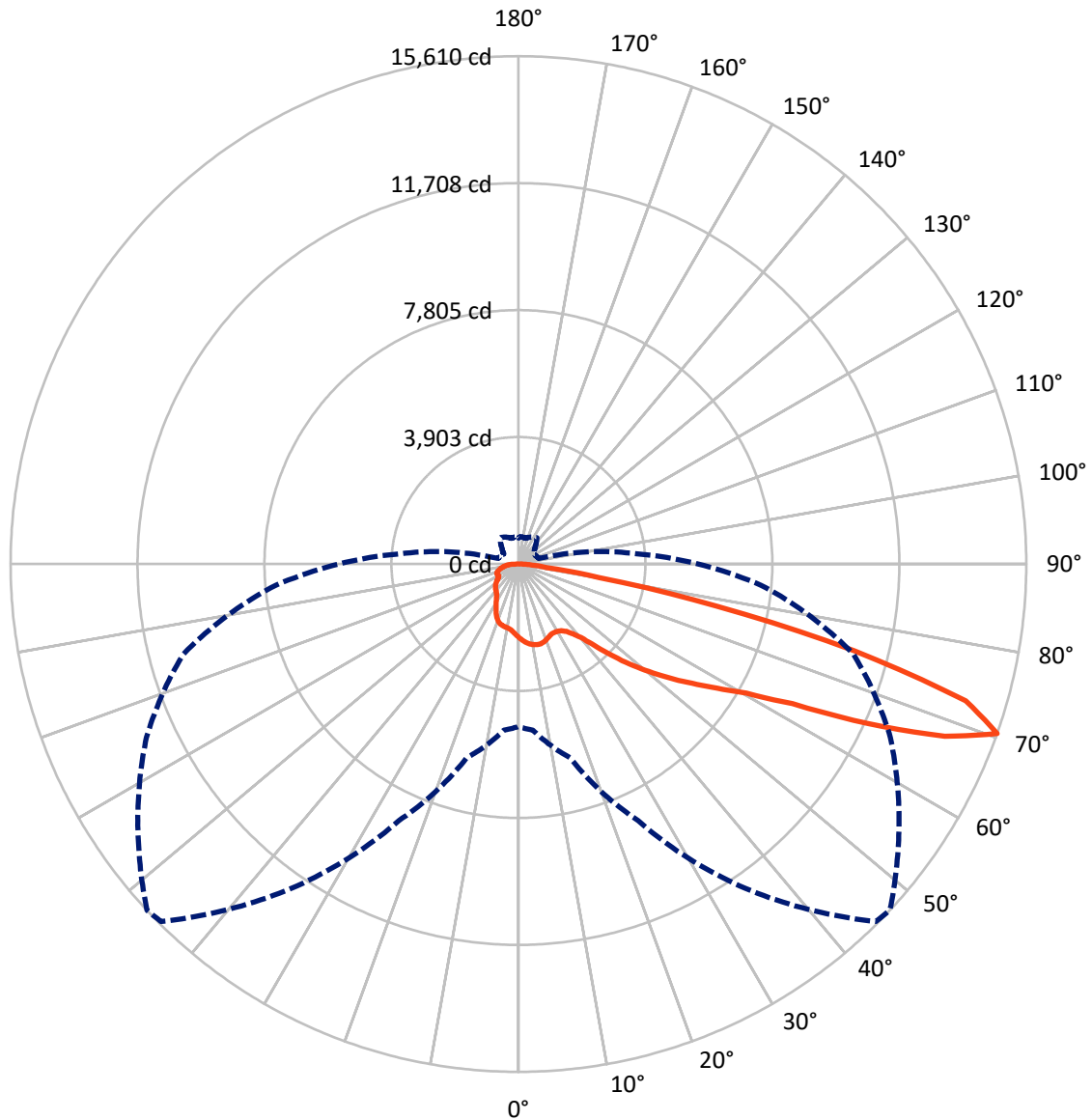
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4059.1	0.0	4059.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	15397.9	0.0	15397.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	19457.0	0.0	19457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	1.1
10°-20°	634.6	3.3
20°-30°	937.2	4.8
30°-40°	1362.1	7.0
40°-50°	2451.4	12.6
50°-60°	4246.8	21.8
60°-70°	6061.4	31.2
70°-80°	3111.6	16.0
80°-90°	435.6	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°	19457.0	100.0
0°-180°	19457.0	100.0

Coefficient of Utilization



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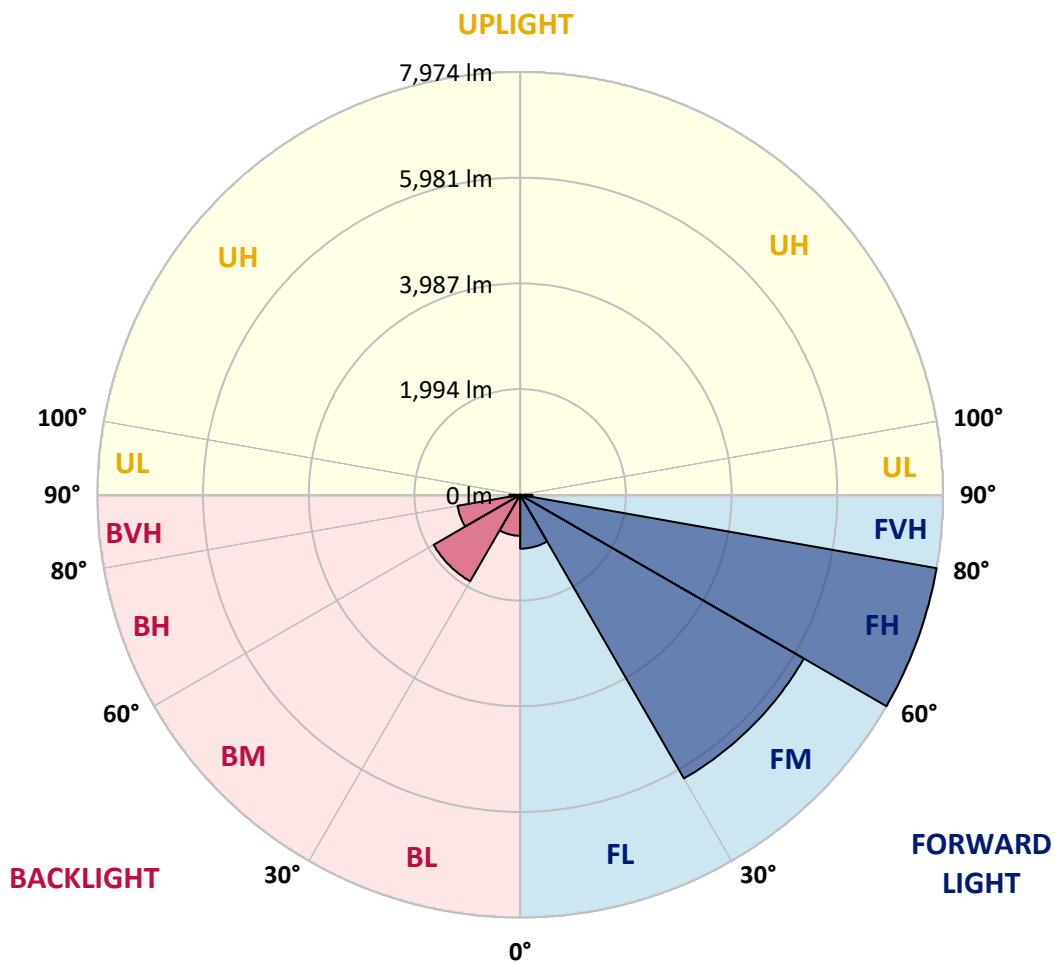
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.2	5.2			
FM	(30°-60°)	6176.2	31.7			
FH	(60°-80°)	7974.0	41.0			G4/12000
FVH	(80°-90°)	232.5	1.2			G3/500
BL	(0°-30°)	772.9	4.0	B2/1000		
BM	(30°-60°)	1884.1	9.7	B2/2500		
BH	(60°-80°)	1198.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	203.2	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°	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6
2.5°	2390.1	2385.4	2383.5	2379.7	2375.0	2351.3	2346.6	2329.6	2305.9	2281.3	2255.7
5°	2547.3	2546.3	2535.9	2517.0	2486.7	2434.6	2422.3	2380.7	2324.8	2270.9	2216.9
7.5°	2685.5	2677.0	2657.1	2619.2	2566.2	2495.2	2478.2	2420.4	2343.8	2269.9	2197.0
10°	2786.8	2782.0	2738.5	2686.4	2617.3	2538.8	2518.9	2454.5	2370.3	2276.5	2185.7
12.5°	2844.5	2835.0	2784.9	2722.4	2640.0	2563.4	2543.5	2478.2	2383.5	2276.5	2169.6
15°	2840.7	2834.1	2783.9	2715.8	2632.5	2565.3	2547.3	2482.0	2380.7	2267.1	2148.8
17.5°	2765.0	2767.8	2725.2	2658.0	2589.9	2538.8	2522.7	2462.1	2361.7	2248.2	2124.1
20°	2632.5	2645.7	2617.3	2557.7	2519.8	2484.8	2474.4	2423.3	2332.4	2220.7	2097.6
22.5°	2499.9	2512.3	2500.9	2450.7	2445.0	2424.2	2418.5	2381.6	2306.8	2203.7	2081.6
25°	2402.4	2413.8	2411.9	2368.4	2385.4	2384.5	2379.7	2361.7	2301.2	2203.7	2084.4
27.5°	2375.9	2379.7	2375.9	2336.2	2359.8	2378.8	2375.0	2372.2	2318.2	2231.1	2120.4
30°	2466.8	2461.1	2431.8	2351.3	2373.1	2399.6	2395.8	2397.7	2369.3	2303.1	2200.8
32.5°	2829.4	2803.8	2711.0	2484.8	2427.1	2441.3	2443.1	2474.4	2479.1	2413.8	2325.8
35°	3371.8	3343.4	3223.1	2842.6	2594.6	2545.4	2545.4	2592.7	2621.1	2572.8	2519.8
37.5°	3946.3	3915.1	3850.7	3338.6	2946.7	2726.2	2721.4	2754.6	2795.3	2806.6	2819.9
40°	4599.5	4566.4	4584.3	3895.2	3438.0	3039.5	2972.3	2948.6	3058.4	3131.3	3237.3
42.5°	5314.2	5299.0	5305.6	4515.2	3997.5	3508.1	3412.5	3290.3	3422.9	3552.6	3775.0
45°	5975.8	5989.1	5982.5	5178.8	4620.3	4079.8	3978.5	3741.9	3871.6	4094.0	4456.5
47.5°	6555.1	6500.2	6585.4	5903.9	5317.9	4719.7	4594.7	4277.6	4409.2	4683.7	5297.1
50°	7258.5	7250.9	7125.9	6871.3	6161.4	5362.4	5198.7	4831.4	5035.9	5417.3	6356.4
52.5°	7997.7	7860.5	7745.9	7623.8	7055.9	6021.3	5820.6	5383.3	5772.3	6252.2	7647.5
55°	8149.2	8087.7	8229.7	8435.1	7918.2	6705.6	6471.8	6075.2	6601.5	7206.4	9136.5
57.5°	8472.9	8472.0	8765.4	9131.8	8806.1	7431.7	7196.0	6911.1	7533.9	8299.7	10717.3
60°	8691.6	8753.1	9298.4	10009.2	9677.9	8270.4	8053.6	7875.6	8594.1	9521.8	12190.2
62.5°	8806.1	8889.4	9633.4	10365.2	10910.4	9666.6	9449.8	9193.3	9996.9	10862.1	13051.6
65°	8330.0	8493.8	9581.4	10672.8	11989.5	11929.9	11832.4	11381.8	11751.0	11921.4	12740.2
67.5°	7012.3	7179.9	8446.4	10386.0	12760.0	14112.7	14133.5	13364.0	12830.1	12012.2	10711.6
70°	4996.1	5127.7	6175.6	8707.7	12173.2	15539.2	15610.2	14277.4	12615.2	10652.9	7483.7
72.5°	2372.2	2452.6	3444.6	5667.2	9660.0	14237.7	14374.9	13111.2	10726.8	7887.0	4082.6
75°	871.8	896.4	1164.3	2411.0	5602.9	10499.6	10661.4	9398.7	7110.8	3926.5	1555.2
77.5°	522.5	538.6	653.1	1017.6	2203.7	6001.4	6240.9	5111.6	3107.7	1461.5	764.8
80°	365.4	376.7	468.6	633.3	1041.2	2287.0	2499.9	2086.3	1238.1	924.8	556.6
82.5°	247.1	252.7	329.4	427.9	692.0	816.9	881.3	927.7	834.9	688.2	353.1
85°	161.9	167.5	223.4	282.1	440.2	422.2	431.6	546.2	609.6	467.6	195.9
87.5°	92.8	96.6	134.4	150.5	215.8	178.9	180.8	287.8	390.0	315.2	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°	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6	2257.6
2.5°	2249.1	2236.8	2209.3	2192.3	2176.2	2172.4	2165.8	2164.9	2163.9	2163.9	2161.1
5°	2198.9	2178.1	2135.5	2111.8	2092.0	2090.1	2089.1	2093.9	2095.8	2097.6	2094.8
7.5°	2166.7	2138.3	2085.3	2051.3	2027.6	2021.9	2031.4	2053.2	2067.4	2073.0	2070.2
10°	2146.9	2111.8	2050.3	2013.4	1993.5	1990.7	2003.0	2028.5	2057.9	2069.2	2068.3
12.5°	2124.1	2084.4	2019.1	1980.3	1968.9	1974.6	1990.7	2014.3	2044.6	2062.6	2063.6
15°	2101.4	2055.0	1987.8	1953.8	1949.0	1956.6	1971.7	1989.7	2013.4	2031.4	2033.3
17.5°	2074.0	2025.7	1958.5	1923.5	1919.7	1923.5	1924.4	1933.9	1949.0	1966.1	1970.8
20°	2044.6	1995.4	1925.4	1890.3	1873.3	1858.2	1841.1	1843.0	1847.7	1864.8	1868.6
22.5°	2023.8	1974.6	1899.8	1851.5	1806.1	1760.7	1726.6	1721.8	1723.7	1737.9	1742.7
25°	2025.7	1973.6	1893.2	1809.9	1710.5	1637.6	1592.2	1584.6	1583.6	1594.1	1600.7
27.5°	2062.6	2010.6	1917.8	1767.3	1606.4	1498.5	1450.2	1444.5	1436.9	1439.8	1447.3
30°	2145.0	2096.7	1977.4	1723.7	1493.7	1362.1	1312.0	1306.3	1295.9	1291.1	1296.8
32.5°	2279.4	2239.6	2064.5	1682.1	1381.1	1245.7	1194.6	1182.3	1175.7	1170.0	1174.7
35°	2502.8	2485.7	2180.9	1636.7	1281.7	1155.8	1109.4	1090.5	1081.0	1091.4	1099.0
37.5°	2853.0	2862.5	2333.3	1565.7	1205.0	1096.2	1057.3	1035.6	1021.4	1029.9	1038.4
40°	3349.0	3355.7	2501.8	1465.3	1138.7	1061.1	1019.5	999.6	979.7	964.6	963.6
42.5°	4000.3	3933.1	2667.5	1356.5	1062.1	1039.4	993.0	968.4	938.1	896.4	887.9
45°	4772.7	4537.0	2793.4	1231.5	975.9	1012.9	963.6	929.6	882.2	836.8	832.1
47.5°	5662.5	5185.4	2854.9	1101.8	895.5	974.0	927.7	873.7	814.1	791.3	788.5
50°	6749.2	5955.0	2884.3	975.9	825.4	922.9	875.6	812.2	762.0	757.3	754.4
52.5°	7986.4	6880.8	2893.7	872.8	767.7	856.7	833.0	771.5	731.7	735.5	735.5
55°	9281.3	7836.8	2765.0	798.0	714.7	788.5	804.6	755.4	722.2	737.4	743.1
57.5°	10470.2	8684.0	2359.8	740.2	664.5	736.4	794.2	770.5	747.8	809.3	813.1
60°	11382.7	9184.8	1762.6	688.2	627.6	718.5	821.6	828.3	833.9	980.7	1000.5
62.5°	11574.0	9018.2	1211.6	647.5	610.6	733.6	871.8	872.8	866.1	968.4	980.7
65°	10696.5	7964.6	881.3	624.7	596.4	761.1	914.4	894.5	851.0	928.6	905.9
67.5°	8494.7	6000.4	733.6	607.7	575.5	759.2	959.8	914.4	842.5	909.7	872.8
70°	5513.9	3628.3	653.1	593.5	550.9	723.2	986.3	912.5	817.9	846.3	802.7
72.5°	2690.2	1622.5	599.2	572.7	525.4	673.0	985.4	895.5	792.3	790.4	766.7
75°	1052.6	743.1	550.0	541.4	481.8	616.2	958.9	870.9	762.0	731.7	723.2
77.5°	616.2	530.1	487.5	495.1	429.8	559.4	920.1	828.3	720.4	684.4	674.9
80°	448.7	396.6	415.6	427.9	367.3	502.6	868.0	776.2	674.0	692.0	678.7
82.5°	287.8	255.6	337.0	349.3	305.7	444.9	811.2	721.3	608.7	552.8	539.6
85°	146.7	161.9	250.8	266.0	235.7	365.4	742.1	648.4	534.8	460.0	467.6
87.5°	82.4	110.8	160.0	178.9	166.6	281.1	602.0	534.8	436.4	355.0	312.4
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)