

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: P302841

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-T4W-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18569.2 lumens
Efficiency: N/A
Efficacy: 108.6 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

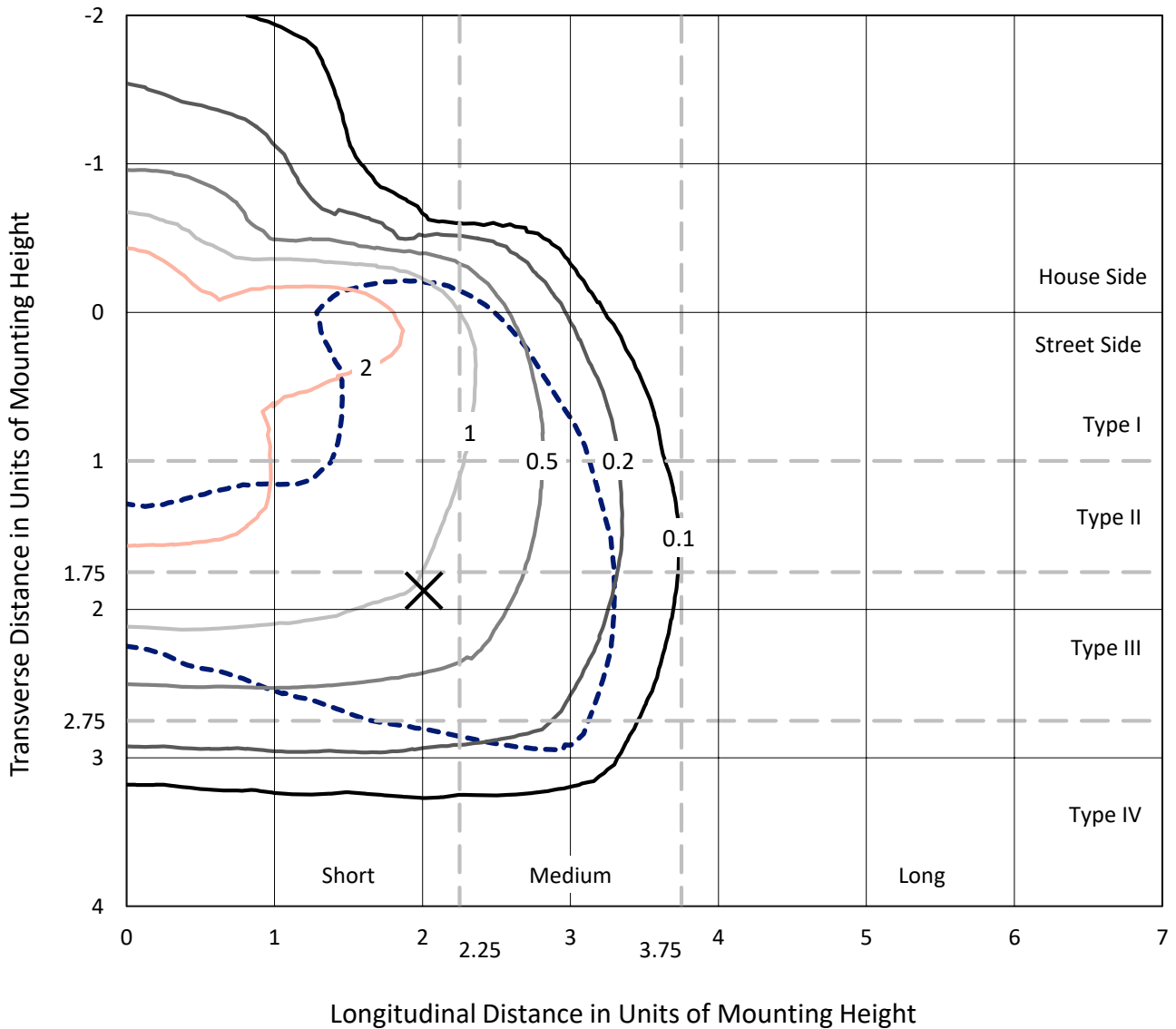
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

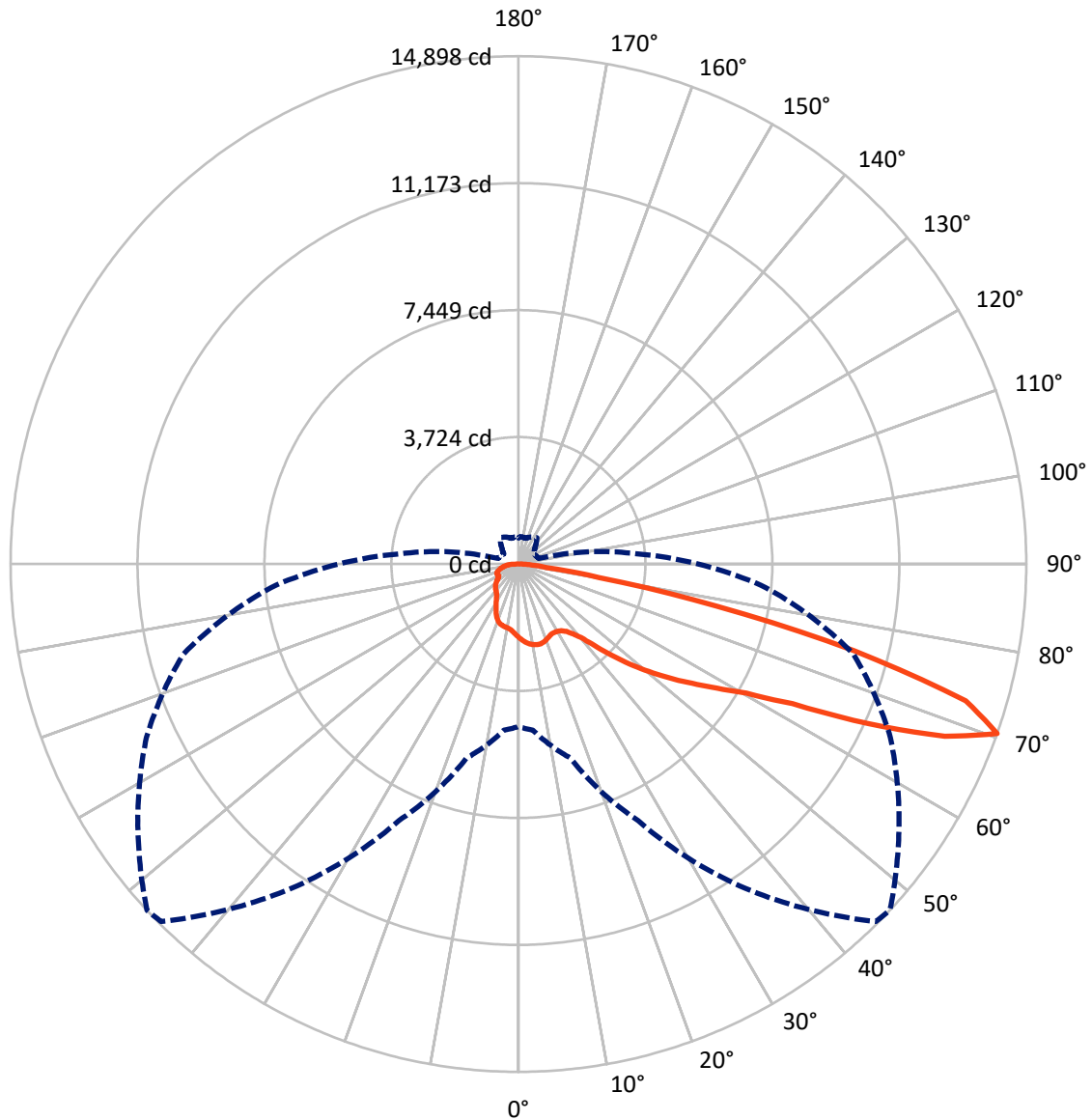
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3873.9	0.0	3873.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	14695.3	0.0	14695.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	18569.2	0.0	18569.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	1.1
10°-20°	605.7	3.3
20°-30°	894.4	4.8
30°-40°	1300.0	7.0
40°-50°	2339.5	12.6
50°-60°	4053.0	21.8
60°-70°	5784.8	31.2
70°-80°	2969.6	16.0
80°-90°	415.7	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°	18569.2	100.0
0°-180°	18569.2	100.0

Coefficient of Utilization



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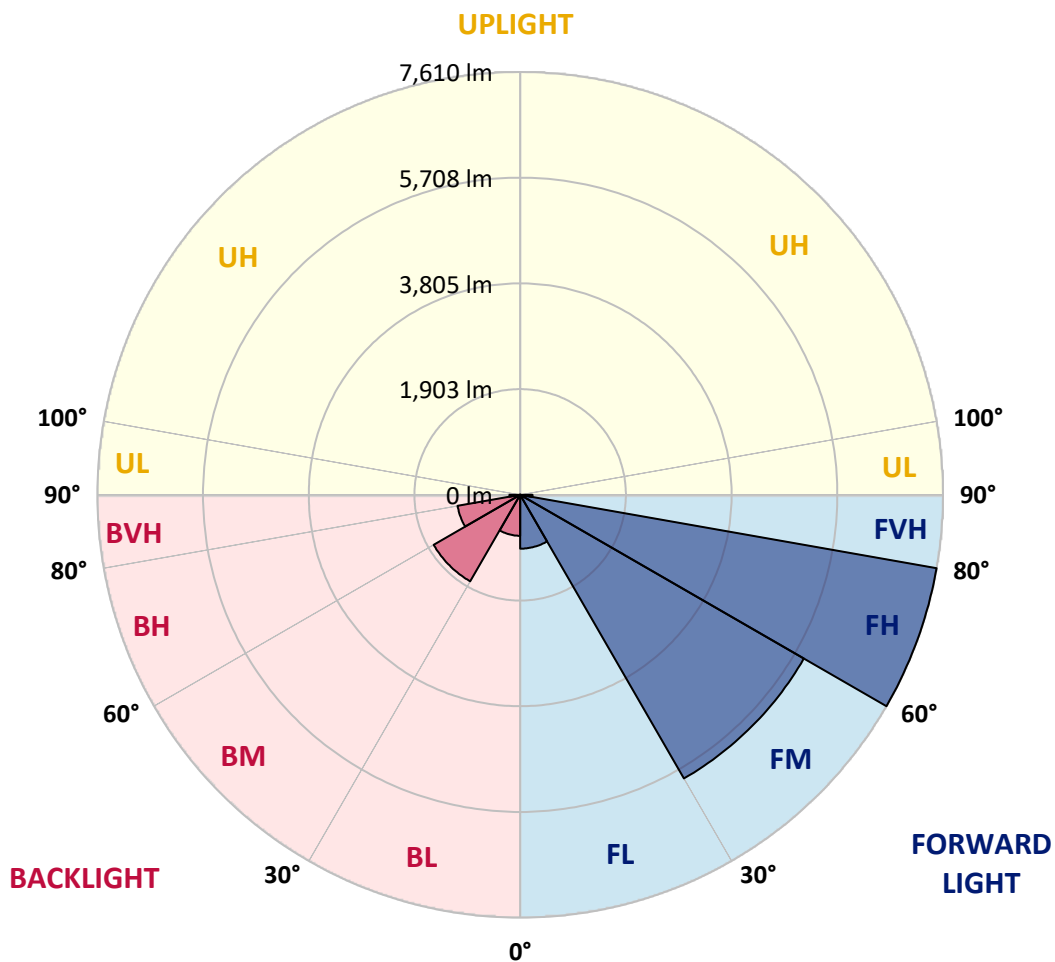
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.9	5.2			
FM	(30°-60°)	5894.4	31.7			
FH	(60°-80°)	7610.1	41.0			G4/12000
FVH	(80°-90°)	221.8	1.2			G2/225
BL	(0°-30°)	737.6	4.0	B2/1000		
BM	(30°-60°)	1798.1	9.7	B2/2500		
BH	(60°-80°)	1144.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	193.9	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°	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6
2.5°	2281.2	2276.7	2274.9	2271.3	2266.8	2244.0	2239.5	2223.3	2200.8	2177.1	2152.8
5°	2431.2	2430.3	2420.1	2402.1	2373.3	2323.5	2311.8	2272.2	2218.8	2167.2	2115.8
7.5°	2562.9	2554.8	2535.9	2499.6	2449.2	2381.4	2365.2	2310.0	2236.8	2166.3	2096.6
10°	2659.5	2655.0	2613.6	2563.8	2497.8	2422.8	2403.9	2342.4	2262.0	2172.6	2085.8
12.5°	2714.7	2705.7	2657.7	2598.3	2519.7	2446.5	2427.3	2365.2	2274.9	2172.6	2070.5
15°	2711.1	2704.8	2656.8	2591.7	2512.5	2448.3	2431.2	2368.8	2272.2	2163.6	2050.7
17.5°	2638.8	2641.5	2601.0	2536.8	2471.7	2422.8	2407.5	2349.9	2253.9	2145.6	2027.3
20°	2512.5	2525.1	2497.8	2441.1	2404.8	2371.5	2361.6	2312.7	2226.0	2119.4	2001.8
22.5°	2385.9	2397.6	2386.8	2338.8	2333.4	2313.6	2308.2	2273.1	2201.7	2103.2	1986.5
25°	2292.9	2303.7	2301.9	2260.2	2276.7	2275.8	2271.3	2253.9	2196.3	2103.2	1989.2
27.5°	2267.7	2271.3	2267.7	2229.6	2252.1	2270.4	2266.8	2263.8	2212.5	2129.4	2023.7
30°	2354.4	2349.0	2320.8	2244.0	2265.0	2290.2	2286.6	2288.4	2261.1	2198.1	2100.5
32.5°	2700.3	2675.7	2587.2	2371.5	2316.3	2329.8	2331.6	2361.6	2366.1	2303.7	2219.7
35°	3217.9	3190.9	3076.0	2712.9	2476.2	2429.4	2429.4	2474.4	2501.4	2455.5	2404.8
37.5°	3766.3	3736.3	3675.1	3186.4	2812.2	2601.9	2597.4	2628.9	2667.6	2678.7	2691.3
40°	4389.5	4358.0	4375.1	3717.4	3281.2	2900.7	2836.5	2814.0	2918.7	2988.4	3089.8
42.5°	5071.8	5057.1	5063.4	4309.1	3814.9	3348.1	3256.9	3140.2	3266.8	3390.4	3602.8
45°	5703.1	5715.7	5709.4	4942.5	4409.6	3893.6	3796.9	3571.0	3694.9	3907.1	4253.3
47.5°	6256.0	6203.5	6284.8	5634.4	5075.4	4504.4	4385.0	4082.6	4208.0	4469.9	5055.3
50°	6927.2	6920.0	6800.9	6557.9	5880.1	5117.7	4961.4	4610.9	4806.0	5170.2	6066.4
52.5°	7632.9	7501.8	7392.6	7275.9	6734.0	5746.6	5554.9	5137.5	5508.9	5966.8	7298.7
55°	7777.2	7718.7	7854.0	8050.2	7557.0	6399.8	6176.5	5797.9	6300.4	6877.7	8719.6
57.5°	8086.2	8085.3	8365.6	8715.1	8404.3	7092.5	6867.5	6595.7	7190.0	7920.9	10228.2
60°	8295.1	8353.6	8874.1	9552.5	9236.3	7893.0	7686.0	7516.2	8202.1	9087.2	11633.9
62.5°	8404.3	8483.8	9194.0	9892.2	10412.4	9225.5	9018.8	8773.9	9540.8	10366.5	12456.0
65°	7950.0	8106.1	9144.2	10185.9	11442.4	11385.4	11292.4	10862.5	11214.7	11377.3	12158.9
67.5°	6692.3	6852.2	8061.0	9912.0	12177.8	13468.9	13488.7	12754.2	12244.7	11464.0	10222.8
70°	4768.2	4893.6	5893.9	8310.4	11617.7	14830.1	14897.9	13625.8	12039.5	10166.7	7142.3
72.5°	2263.8	2340.6	3287.5	5408.7	9219.2	13588.0	13719.1	12513.0	10237.2	7527.0	3896.3
75°	832.0	855.4	1111.0	2301.0	5347.2	10020.6	10175.1	8969.9	6786.2	3747.4	1484.3
77.5°	498.7	514.0	623.5	971.2	2103.2	5727.7	5956.0	4878.3	2965.8	1394.9	730.0
80°	348.6	359.4	447.1	604.3	993.7	2182.8	2385.9	1991.0	1181.5	882.7	531.1
82.5°	235.8	241.2	314.4	408.3	660.4	779.5	841.0	885.4	796.9	656.8	336.9
85°	154.5	159.9	213.3	269.1	420.0	402.9	411.9	521.2	581.8	446.2	186.9
87.5°	88.5	92.1	128.4	143.7	206.1	170.7	172.5	274.5	372.3	300.9	113.7
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°	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6	2154.6
2.5°	2146.5	2134.8	2108.6	2092.1	2076.8	2073.2	2066.9	2066.0	2065.1	2065.1	2062.4
5°	2098.4	2078.6	2038.1	2015.3	1996.4	1994.6	1993.7	1998.2	2000.0	2001.8	1999.1
7.5°	2067.8	2040.8	1990.1	1957.7	1935.2	1929.5	1938.8	1959.5	1973.0	1978.4	1975.7
10°	2048.9	2015.3	1956.8	1921.4	1902.5	1899.8	1911.5	1936.1	1964.0	1974.8	1973.9
12.5°	2027.3	1989.2	1926.8	1889.9	1879.1	1884.5	1899.8	1922.3	1951.4	1968.5	1969.4
15°	2005.4	1961.3	1897.1	1864.7	1860.2	1867.4	1881.8	1898.9	1921.4	1938.8	1940.6
17.5°	1979.3	1933.1	1869.2	1835.6	1832.0	1835.6	1836.5	1845.5	1860.2	1876.4	1880.9
20°	1951.4	1904.3	1837.4	1804.1	1787.9	1773.5	1757.0	1758.8	1763.3	1779.8	1783.4
22.5°	1931.3	1884.5	1813.1	1766.9	1723.7	1680.2	1647.8	1643.3	1645.1	1658.6	1663.1
25°	1933.1	1883.6	1806.8	1727.3	1632.5	1562.9	1519.4	1512.2	1511.3	1521.2	1527.8
27.5°	1968.5	1918.7	1830.2	1686.5	1533.2	1430.0	1384.1	1378.7	1371.5	1374.2	1381.4
30°	2047.1	2000.9	1887.2	1645.1	1425.5	1300.1	1252.0	1246.6	1236.7	1232.2	1237.6
32.5°	2175.3	2137.5	1970.3	1605.2	1318.1	1188.7	1140.1	1128.4	1122.1	1116.7	1121.2
35°	2388.6	2372.4	2081.3	1562.0	1223.2	1102.9	1058.8	1040.8	1031.8	1041.7	1048.9
37.5°	2722.8	2731.8	2226.9	1494.2	1150.0	1046.2	1009.0	988.3	974.8	982.9	991.0
40°	3196.3	3202.6	2387.7	1398.5	1086.7	1012.6	973.0	954.1	934.9	920.5	919.6
42.5°	3817.6	3753.7	2545.8	1294.7	1013.5	991.9	947.8	924.1	895.3	855.4	847.3
45°	4554.8	4330.1	2665.8	1175.2	931.3	966.7	919.6	887.2	841.9	798.7	794.2
47.5°	5404.2	4948.8	2724.6	1051.6	854.5	929.5	885.4	833.8	776.8	755.2	752.5
50°	6441.2	5683.3	2752.5	931.3	787.9	880.9	835.6	775.0	727.3	722.8	720.1
52.5°	7622.1	6566.9	2761.8	832.9	732.7	817.6	795.1	736.3	698.2	702.1	702.1
55°	8857.9	7479.3	2638.8	761.5	682.0	752.5	767.8	721.0	689.2	703.9	709.3
57.5°	9992.4	8287.9	2252.1	706.6	634.3	703.0	757.9	735.4	713.8	772.3	775.9
60°	10863.4	8765.5	1682.0	656.8	598.9	685.6	784.3	790.6	796.0	935.8	955.0
62.5°	11045.8	8606.8	1156.3	618.1	582.7	700.3	832.0	832.9	826.6	924.1	935.8
65°	10208.4	7601.1	841.0	596.2	569.2	726.4	872.8	853.6	812.2	886.3	864.4
67.5°	8107.0	5726.8	700.3	580.0	549.4	724.6	916.0	872.8	804.1	868.3	832.9
70°	5262.3	3462.7	623.5	566.5	525.7	690.1	941.2	871.0	780.4	807.7	766.0
72.5°	2567.4	1548.5	571.9	546.7	501.4	642.4	940.3	854.5	756.1	754.3	731.8
75°	1004.5	709.3	524.8	516.7	460.0	588.1	915.1	831.1	727.3	698.2	690.1
77.5°	588.1	505.9	465.4	472.6	410.1	533.8	878.2	790.6	687.4	653.2	644.2
80°	428.2	378.6	396.6	408.3	350.4	479.8	828.4	740.8	643.3	660.4	647.8
82.5°	274.5	243.9	321.6	333.3	291.9	424.5	774.1	688.3	580.9	527.5	514.9
85°	140.1	154.5	239.4	253.8	225.0	348.6	708.4	619.0	510.4	439.0	446.2
87.5°	78.6	105.6	152.7	170.7	159.0	268.2	574.6	510.4	416.4	338.7	298.2
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)