

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: P302907

Luminaire Tested: **GLNA-AF-05-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302907  
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-05-LED-E1-T4W-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18760.9 lumens  
Efficiency: N/A  
Efficacy: 115.8 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

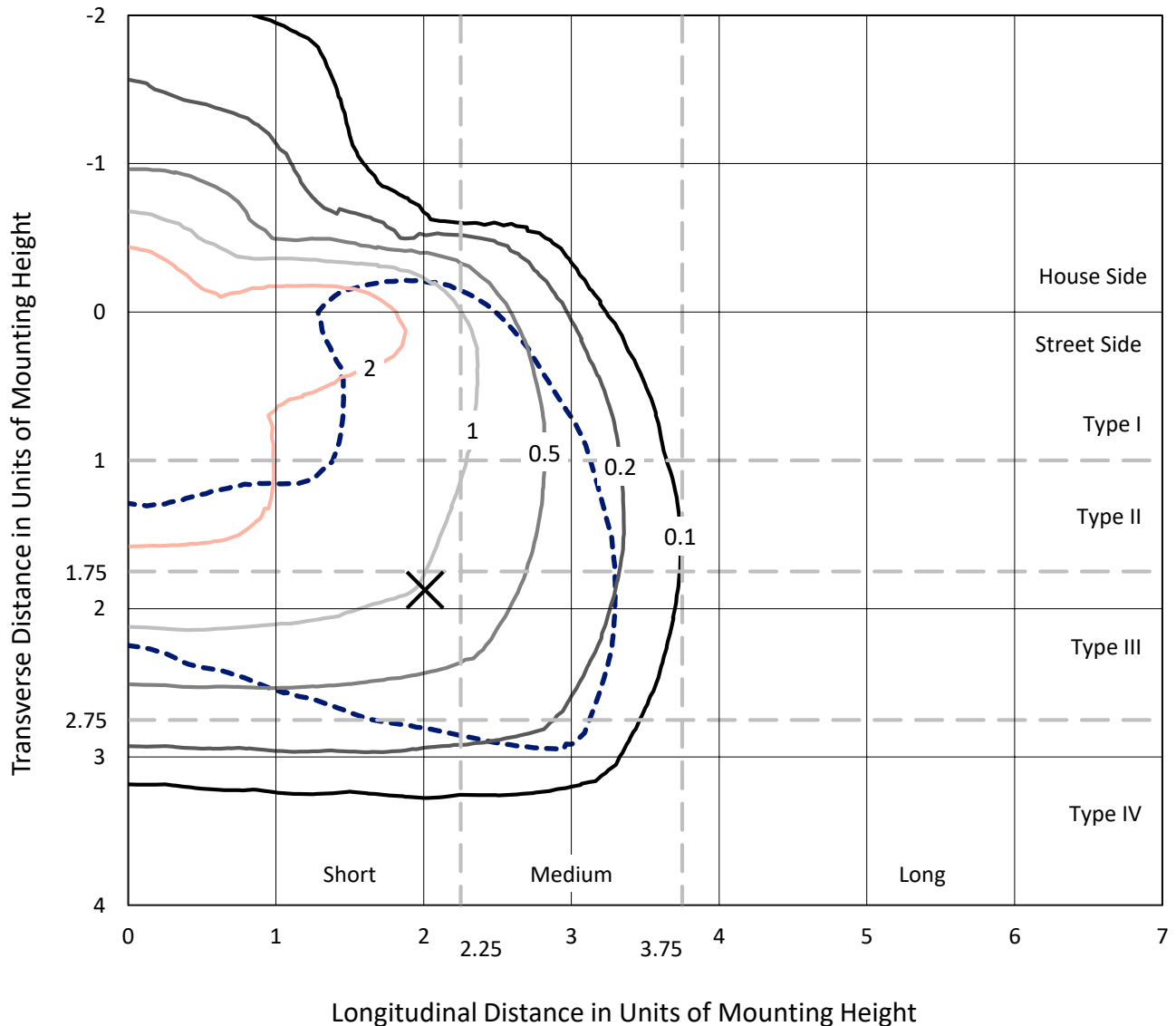
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

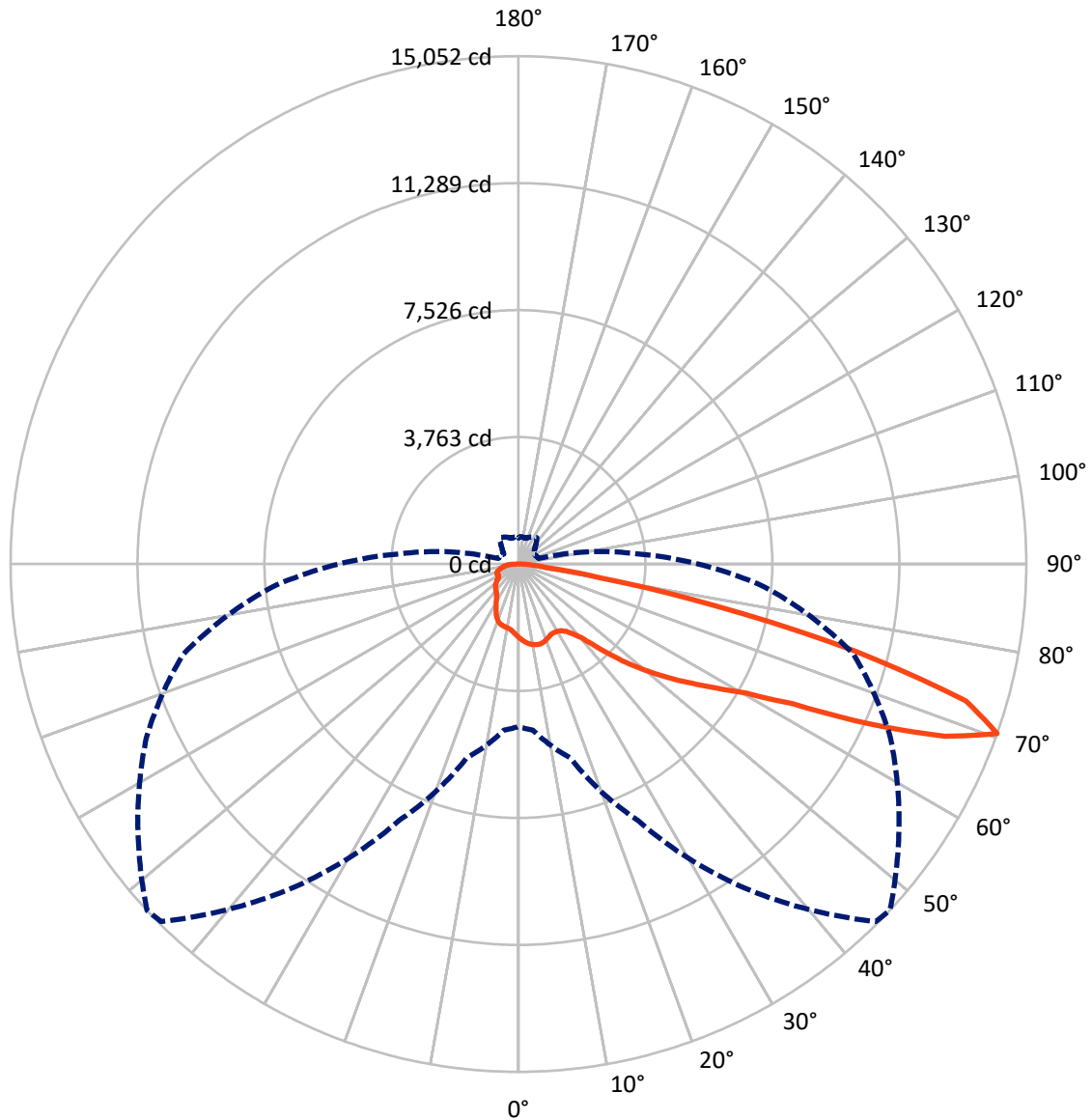
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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
<b>House Side</b>	Lumens	3913.9	0.0	3913.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	14847.0	0.0	14847.0
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	18760.9	0.0	18760.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.6	1.1
10°-20°	611.9	3.3
20°-30°	903.6	4.8
30°-40°	1313.4	7.0
40°-50°	2363.7	12.6
50°-60°	4094.8	21.8
60°-70°	5844.5	31.2
70°-80°	3000.2	16.0
80°-90°	420.0	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°	18760.9	100.0
0°-180°	18760.9	100.0



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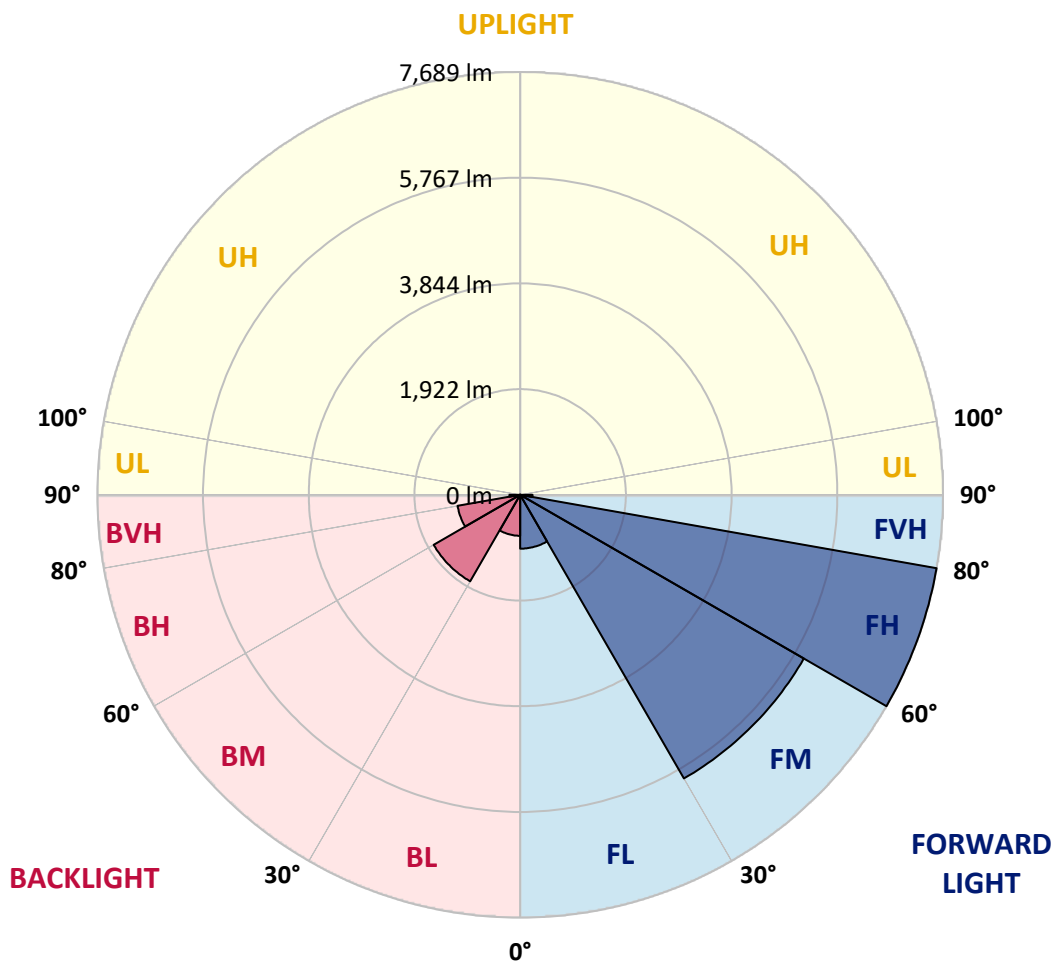
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.9	5.2			
FM	(30°-60°)	5955.2	31.7			
FH	(60°-80°)	7688.7	41.0			G4/12000
FVH	(80°-90°)	224.1	1.2			G2/225
BL	(0°-30°)	745.2	4.0	B2/1000		
BM	(30°-60°)	1816.7	9.7	B2/2500		
BH	(60°-80°)	1156.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	195.9	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°	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8
2.5°	2304.7	2300.2	2298.4	2294.7	2290.2	2267.1	2262.6	2246.2	2223.5	2199.5	2175.0
5°	2456.3	2455.4	2445.1	2426.9	2397.8	2347.5	2335.6	2295.6	2241.7	2189.5	2137.7
7.5°	2589.4	2581.2	2562.1	2525.4	2474.5	2406.0	2389.6	2333.8	2259.9	2188.6	2118.3
10°	2687.0	2682.4	2640.6	2590.3	2523.6	2447.8	2428.7	2366.6	2285.3	2195.0	2107.4
12.5°	2742.7	2733.6	2685.1	2625.1	2545.7	2471.7	2452.3	2389.6	2298.4	2195.0	2091.9
15°	2739.1	2732.7	2684.2	2618.5	2538.4	2473.6	2456.3	2393.2	2295.6	2185.9	2071.9
17.5°	2666.1	2668.8	2627.9	2563.0	2497.2	2447.8	2432.3	2374.1	2277.1	2167.7	2048.3
20°	2538.4	2551.2	2523.6	2466.3	2429.6	2396.0	2386.0	2336.5	2248.9	2141.3	2022.5
22.5°	2410.5	2422.3	2411.4	2362.9	2357.5	2337.5	2332.0	2296.5	2224.4	2125.0	2007.0
25°	2316.5	2327.5	2325.6	2283.5	2300.2	2299.3	2294.7	2277.1	2218.9	2125.0	2009.8
27.5°	2291.1	2294.7	2291.1	2252.6	2275.3	2293.8	2290.2	2287.1	2235.3	2151.3	2044.6
30°	2378.7	2373.2	2344.7	2267.1	2288.3	2313.8	2310.2	2312.0	2284.4	2220.7	2122.2
32.5°	2728.2	2703.3	2613.9	2396.0	2340.2	2353.8	2355.6	2386.0	2390.5	2327.5	2242.6
35°	3251.1	3223.8	3107.7	2740.9	2501.8	2454.5	2454.5	2499.9	2527.2	2480.8	2429.6
37.5°	3805.2	3774.9	3713.1	3219.3	2841.3	2628.8	2624.2	2656.0	2695.2	2706.4	2719.1
40°	4434.8	4403.0	4420.3	3755.8	3315.1	2930.7	2865.8	2843.1	2948.9	3019.2	3121.7
42.5°	5124.2	5109.3	5115.7	4353.6	3854.3	3382.7	3290.5	3172.6	3300.5	3425.4	3640.0
45°	5761.9	5774.7	5768.3	4993.5	4455.1	3933.8	3836.1	3607.9	3733.1	3947.4	4297.2
47.5°	6320.6	6267.6	6349.7	5692.5	5127.8	4550.9	4430.3	4124.7	4251.4	4516.1	5107.5
50°	6998.7	6991.4	6871.1	6625.6	5940.8	5170.5	5012.6	4658.5	4855.6	5223.6	6129.0
52.5°	7711.7	7579.2	7468.9	7351.0	6803.5	5805.9	5612.2	5190.5	5565.8	6028.4	7374.0
55°	7857.5	7798.4	7935.1	8133.3	7635.0	6465.8	6240.3	5857.7	6365.5	6948.7	8809.6
57.5°	8169.7	8168.8	8451.9	8805.1	8491.0	7165.8	6938.4	6663.8	7264.3	8002.7	10333.8
60°	8380.7	8439.8	8965.8	9651.1	9331.6	7974.5	7765.3	7593.8	8286.7	9181.0	11754.0
62.5°	8491.0	8571.4	9288.9	9994.3	10519.9	9320.7	9111.9	8864.5	9639.3	10473.5	12584.5
65°	8032.1	8189.7	9238.6	10291.0	11560.6	11503.0	11409.0	10974.6	11330.5	11494.8	12284.4
67.5°	6761.4	6922.9	8144.3	10014.3	12303.5	13607.9	13627.9	12885.9	12371.1	11582.4	10328.3
70°	4817.4	4944.1	5954.7	8396.2	11737.6	14983.2	15051.7	13766.5	12163.8	10271.6	7216.1
72.5°	2287.1	2364.7	3321.4	5464.6	9314.4	13728.3	13860.7	12642.1	10342.9	7604.7	3936.5
75°	840.6	864.2	1122.5	2324.7	5402.4	10124.0	10280.1	9062.5	6856.3	3786.1	1499.6
77.5°	503.8	519.3	629.9	981.2	2125.0	5786.8	6017.5	4928.6	2996.5	1409.3	737.5
80°	352.2	363.2	451.7	610.5	1004.0	2205.3	2410.5	2011.6	1193.7	891.8	536.5
82.5°	238.3	243.7	317.7	412.6	667.2	787.5	849.7	894.5	805.1	663.6	340.4
85°	156.1	161.6	215.5	271.9	424.4	407.1	416.2	526.5	587.8	450.8	188.9
87.5°	89.4	93.1	129.7	145.2	208.3	172.5	174.3	277.4	376.2	304.0	114.9
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°	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8	2176.8
2.5°	2168.6	2156.8	2130.4	2113.7	2098.3	2094.6	2088.3	2087.4	2086.5	2086.5	2083.7
5°	2120.1	2100.1	2059.2	2036.1	2017.0	2015.2	2014.3	2018.9	2020.7	2022.5	2019.8
7.5°	2089.2	2061.9	2010.7	1977.9	1955.2	1949.4	1958.8	1979.8	1993.4	1998.9	1996.1
10°	2070.1	2036.1	1977.0	1941.3	1922.2	1919.4	1931.3	1956.1	1984.3	1995.2	1994.3
12.5°	2048.3	2009.8	1946.7	1909.4	1898.5	1904.0	1919.4	1942.2	1971.6	1988.9	1989.8
15°	2026.1	1981.6	1916.7	1884.0	1879.4	1886.7	1901.2	1918.5	1941.3	1958.8	1960.7
17.5°	1999.8	1953.1	1888.5	1854.6	1850.9	1854.6	1855.5	1864.6	1879.4	1895.8	1900.3
20°	1971.6	1924.0	1856.4	1822.7	1806.4	1791.8	1775.1	1777.0	1781.5	1798.2	1801.8
22.5°	1951.3	1904.0	1831.8	1785.1	1741.5	1697.5	1664.8	1660.3	1662.1	1675.7	1680.3
25°	1953.1	1903.1	1825.5	1745.1	1649.3	1579.0	1535.1	1527.8	1526.9	1536.9	1543.6
27.5°	1988.9	1938.5	1849.1	1703.9	1549.0	1444.7	1398.4	1392.9	1385.6	1388.3	1395.6
30°	2068.3	2021.6	1906.7	1662.1	1440.2	1313.5	1265.0	1259.5	1249.5	1245.0	1250.4
32.5°	2197.7	2159.5	1990.7	1621.8	1331.7	1201.0	1151.9	1140.1	1133.7	1128.3	1132.8
35°	2413.2	2396.9	2102.8	1578.1	1235.9	1114.3	1069.8	1051.6	1042.5	1052.5	1059.8
37.5°	2750.9	2760.0	2249.8	1509.6	1161.9	1057.0	1019.4	998.5	984.9	993.1	1001.2
40°	3229.3	3235.6	2412.3	1412.9	1097.9	1023.1	983.1	964.0	944.6	930.0	929.1
42.5°	3857.1	3792.5	2572.1	1308.0	1024.0	1002.2	957.6	933.6	904.5	864.2	856.0
45°	4601.9	4374.8	2693.3	1187.4	940.9	976.7	929.1	896.4	850.6	806.9	802.4
47.5°	5460.0	4999.9	2752.7	1062.5	863.3	939.1	894.5	842.4	784.8	763.0	760.3
50°	6507.6	5741.9	2780.9	940.9	796.0	890.0	844.2	783.0	734.8	730.2	727.5
52.5°	7700.8	6634.7	2790.3	841.5	740.2	826.0	803.3	743.9	705.4	709.3	709.3
55°	8949.4	7556.5	2666.1	769.4	689.0	760.3	775.7	728.4	696.3	711.1	716.6
57.5°	10095.5	8373.4	2275.3	713.9	640.8	710.2	765.7	743.0	721.2	780.3	783.9
60°	10975.5	8856.0	1699.4	663.6	605.1	692.7	792.4	798.8	804.2	945.5	964.9
62.5°	11159.8	8695.7	1168.3	624.5	588.7	707.5	840.6	841.5	835.1	933.6	945.5
65°	10313.8	7679.6	849.7	602.3	575.0	733.9	881.8	862.4	820.6	895.5	873.3
67.5°	8190.6	5785.9	707.5	586.0	555.0	732.1	925.5	881.8	812.4	877.3	841.5
70°	5316.6	3498.5	629.9	572.3	531.1	697.2	950.9	880.0	788.4	816.0	773.9
72.5°	2593.9	1564.5	577.8	552.3	506.5	649.0	950.0	863.3	763.9	762.1	739.3
75°	1014.9	716.6	530.2	522.0	464.7	594.1	924.6	839.7	734.8	705.4	697.2
77.5°	594.1	511.1	470.2	477.4	414.4	539.3	887.3	798.8	694.5	659.9	650.8
80°	432.6	382.6	400.7	412.6	354.1	484.7	836.9	748.4	649.9	667.2	654.5
82.5°	277.4	246.4	325.0	336.8	294.9	428.9	782.1	695.4	586.9	532.9	520.2
85°	141.6	156.1	241.9	256.5	227.3	352.2	715.7	625.4	515.6	443.5	450.8
87.5°	79.4	106.7	154.3	172.5	160.7	271.0	580.5	515.6	420.7	342.2	301.3
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)