

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: P299972

Luminaire Tested: **GLNA-AF-07-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-5WQ-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28160 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 226
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

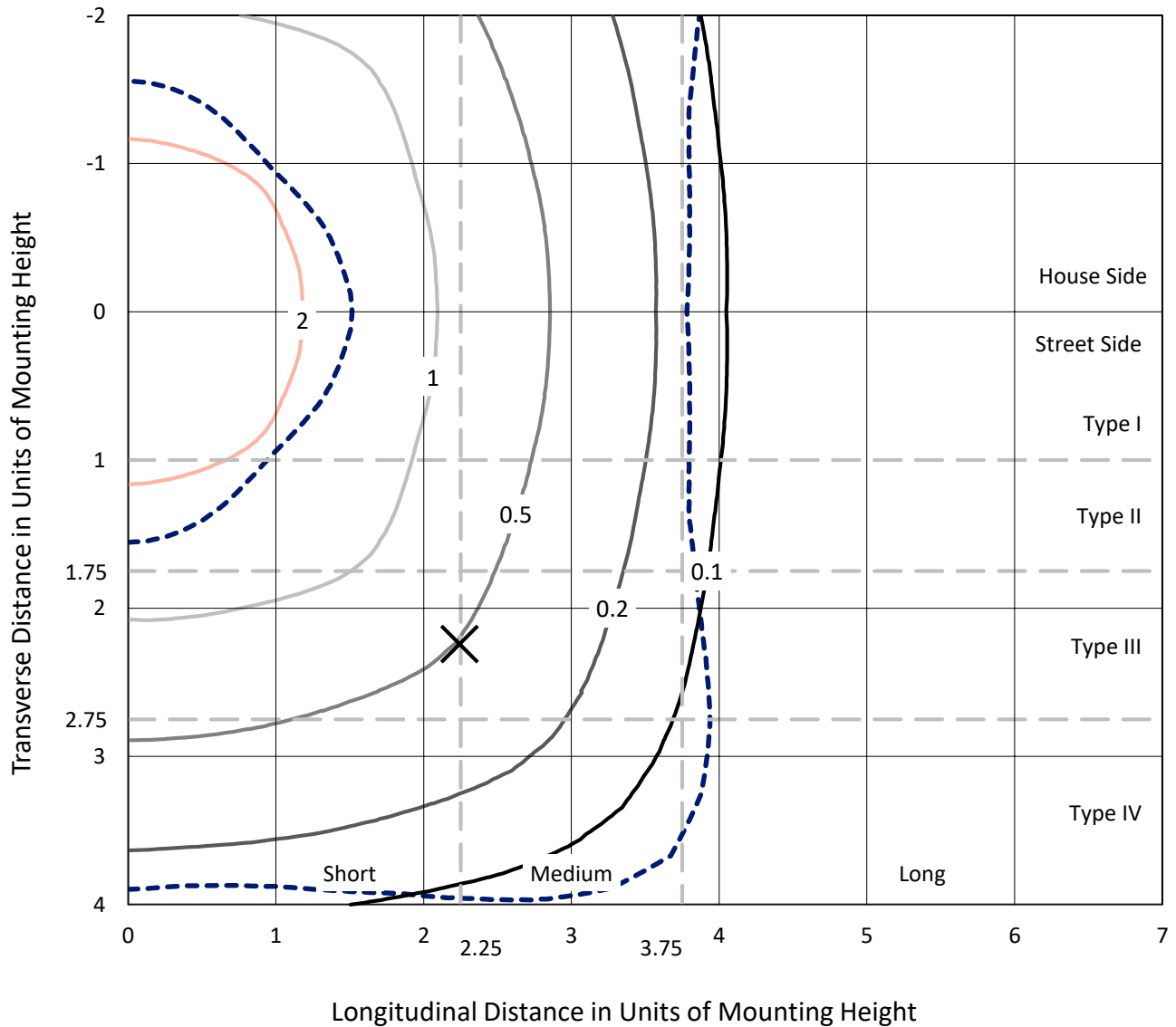


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

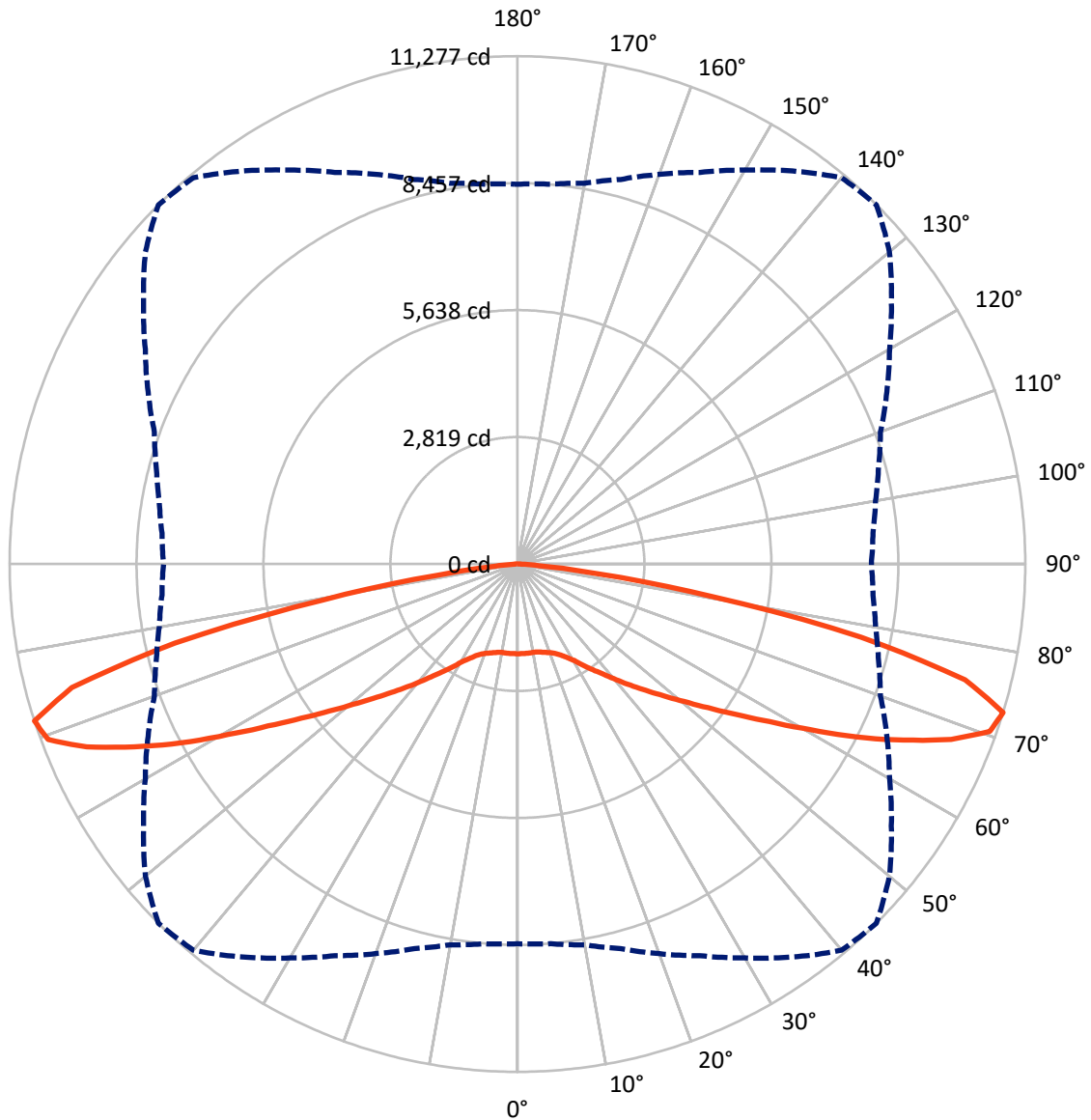


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14080.0	0.0	14080.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14080.0	0.0	14080.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28160.0	0.0	28160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	0.7
10°-20°	578.3	2.1
20°-30°	1056.8	3.8
30°-40°	1822.2	6.5
40°-50°	3115.0	11.1
50°-60°	5049.0	17.9
60°-70°	8376.1	29.7
70°-80°	7377.4	26.2
80°-90°	594.8	2.1
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°	28160.0	100.0
0°-180°	28160.0	100.0



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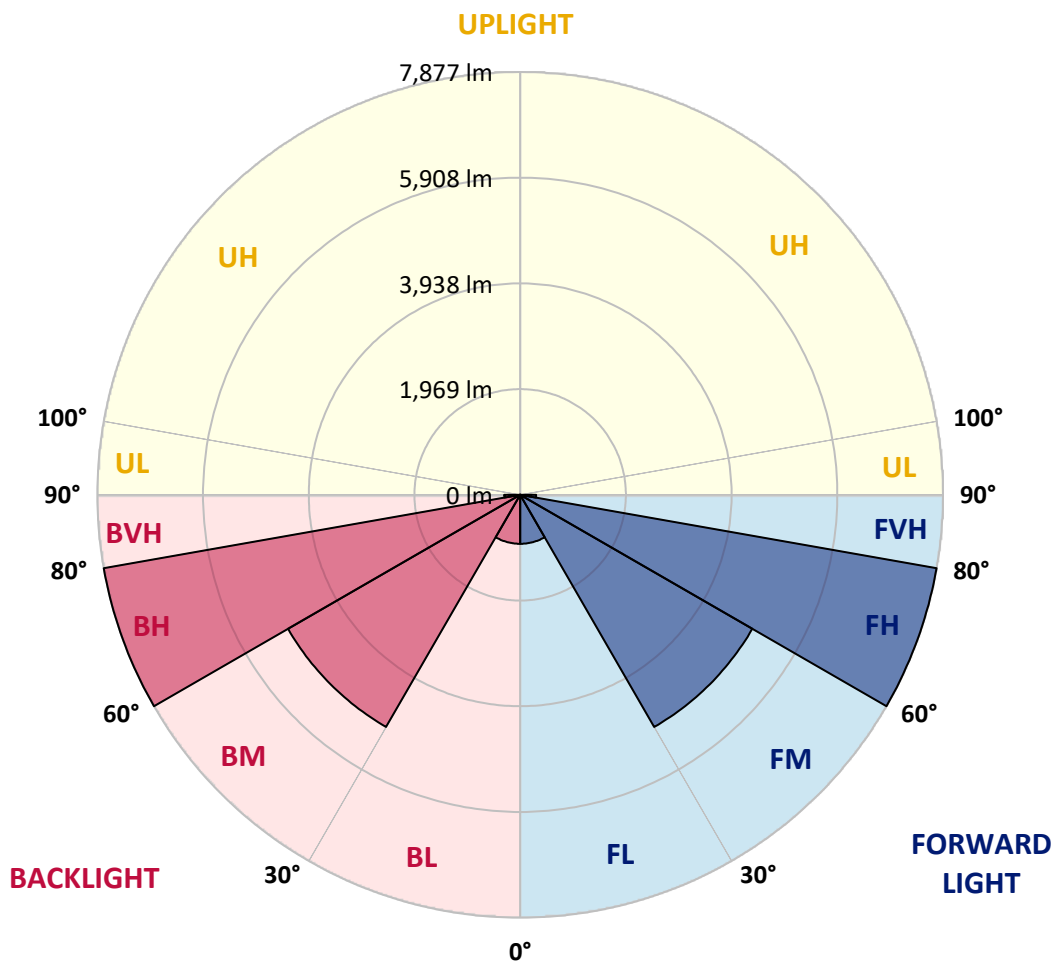
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	912.8	3.2			
FM	(30°-60°)	4993.1	17.7			
FH	(60°-80°)	7876.7	28.0			G4/12000
FVH	(80°-90°)	297.4	1.1			G3/500
BL	(0°-30°)	912.8	3.2	B2/1000		
BM	(30°-60°)	4993.1	17.7	B3/5000		
BH	(60°-80°)	7876.7	28.0	B5		G4/12000
BVH	(80°-90°)	297.4	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
2.5°	1994.2	1995.5	1996.7	1995.5	1995.5	1994.2	1992.9	1994.2	1992.9	1990.3	1991.6
5°	2000.6	2003.2	2003.2	2000.6	2001.9	2000.6	1998.0	1999.3	1996.7	1992.9	1992.9
7.5°	2008.4	2009.7	2009.7	2007.1	2008.4	2005.8	2003.2	2001.9	1999.3	1994.2	1990.3
10°	2020.0	2021.3	2020.0	2017.4	2017.4	2013.5	2007.1	2004.5	1999.3	1991.6	1987.7
12.5°	2032.9	2034.2	2032.9	2030.3	2029.0	2022.6	2017.4	2013.5	2009.7	2003.2	1996.7
15°	2051.0	2053.6	2051.0	2045.8	2042.0	2036.8	2034.2	2035.5	2036.8	2031.6	2025.2
17.5°	2084.6	2085.9	2082.0	2070.4	2065.2	2060.0	2060.0	2062.6	2066.5	2063.9	2057.5
20°	2146.6	2142.7	2133.7	2119.4	2113.0	2103.9	2102.7	2103.9	2103.9	2102.7	2097.5
22.5°	2224.1	2221.5	2209.9	2191.8	2182.7	2177.6	2169.8	2163.4	2162.1	2158.2	2153.0
25°	2317.1	2315.8	2301.6	2286.1	2279.6	2273.1	2266.7	2257.6	2249.9	2240.9	2235.7
27.5°	2435.9	2430.7	2410.0	2402.3	2393.3	2389.4	2380.3	2370.0	2363.6	2351.9	2345.5
30°	2566.3	2566.3	2549.5	2547.0	2547.0	2537.9	2527.6	2509.5	2497.9	2486.2	2482.4
32.5°	2696.8	2698.1	2681.3	2686.4	2690.3	2696.8	2699.4	2692.9	2685.1	2683.9	2676.1
35°	2885.3	2880.2	2863.4	2867.3	2866.0	2864.7	2864.7	2878.9	2881.5	2884.0	2868.5
37.5°	3119.1	3119.1	3102.3	3102.3	3094.6	3086.8	3076.5	3085.5	3099.7	3103.6	3093.3
40°	3386.5	3395.5	3374.8	3373.5	3376.1	3351.6	3340.0	3354.2	3363.2	3378.7	3367.1
42.5°	3701.6	3695.1	3674.5	3671.9	3657.7	3649.9	3639.6	3651.2	3665.4	3675.8	3679.6
45°	4003.8	3998.7	3975.4	3975.4	3961.2	3954.7	3959.9	3979.3	3985.7	4000.0	4014.2
47.5°	4302.2	4295.7	4280.2	4286.7	4288.0	4299.6	4316.4	4334.5	4352.5	4371.9	4378.4
50°	4607.0	4608.3	4591.5	4607.0	4626.4	4658.6	4703.9	4733.6	4771.0	4795.6	4803.3
52.5°	4884.7	4889.8	4907.9	4944.1	4982.8	5046.1	5123.6	5195.9	5257.9	5299.3	5296.7
55°	5217.9	5225.6	5269.6	5331.5	5394.8	5490.4	5605.4	5733.2	5836.5	5896.0	5858.5
57.5°	5644.1	5660.9	5710.0	5793.9	5888.2	6012.2	6169.8	6362.2	6522.4	6602.4	6541.7
60°	6229.2	6239.5	6298.9	6391.9	6505.6	6659.3	6869.8	7128.1	7354.1	7460.0	7390.3
62.5°	7000.2	7019.6	7067.4	7161.7	7277.9	7452.3	7709.3	8032.2	8313.8	8461.0	8303.4
65°	7921.1	7983.1	8023.2	8118.7	8227.2	8411.9	8680.6	9026.7	9328.9	9425.8	9243.7
67.5°	8833.0	8887.2	8957.0	9066.7	9176.5	9384.5	9633.7	9969.5	10301.5	10389.3	10106.4
70°	9232.1	9263.1	9371.5	9521.4	9731.9	9977.3	10265.3	10642.4	11053.1	11125.5	10766.4
72.5°	8432.6	8463.6	8585.0	8839.4	9206.2	9596.3	10098.7	10652.8	11195.2	11276.6	10781.9
75°	6377.7	6327.3	6506.9	6844.0	7338.6	7882.4	8585.0	9379.3	10163.3	10265.3	9675.1
77.5°	3296.1	3289.6	3425.2	3843.7	4433.9	5052.6	5826.2	6723.8	7491.0	7801.0	7320.5
80°	928.6	939.0	1003.5	1211.5	1556.3	2003.2	2607.7	3448.5	4076.2	4396.5	4127.8
82.5°	364.2	392.6	417.2	455.9	501.1	567.0	756.9	1126.2	1511.1	1805.6	1478.8
85°	130.4	139.5	197.6	233.8	237.6	250.6	285.4	333.2	401.7	479.2	393.9
87.5°	49.1	54.2	63.3	104.6	103.3	94.3	114.9	120.1	90.4	82.7	102.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
2.5°	1989.0	1990.3	1990.3	1991.6	1992.9	1992.9	1995.5	1995.5
5°	1990.3	1990.3	1987.7	1989.0	1987.7	1987.7	1989.0	1989.0
7.5°	1987.7	1986.4	1983.8	1982.5	1980.0	1980.0	1980.0	1980.0
10°	1983.8	1982.5	1980.0	1978.7	1977.4	1977.4	1977.4	1977.4
12.5°	1994.2	1990.3	1987.7	1986.4	1986.4	1986.4	1986.4	1986.4
15°	2021.3	2012.2	2005.8	2005.8	2007.1	2009.7	2009.7	2012.2
17.5°	2054.9	2044.5	2038.1	2032.9	2035.5	2039.4	2042.0	2044.5
20°	2094.9	2089.7	2080.7	2075.5	2075.5	2080.7	2083.3	2084.6
22.5°	2150.4	2146.6	2142.7	2136.2	2136.2	2138.8	2144.0	2144.0
25°	2233.1	2230.5	2227.9	2222.8	2221.5	2221.5	2224.1	2226.6
27.5°	2336.4	2337.7	2335.1	2333.8	2330.0	2328.7	2332.6	2331.3
30°	2474.6	2481.1	2487.5	2482.4	2475.9	2472.0	2468.2	2463.0
32.5°	2661.9	2654.2	2649.0	2639.9	2628.3	2618.0	2610.2	2601.2
35°	2838.8	2825.9	2820.8	2828.5	2827.2	2820.8	2811.7	2804.0
37.5°	3055.8	3053.2	3055.8	3070.0	3067.4	3073.9	3055.8	3054.5
40°	3329.6	3332.2	3350.3	3367.1	3376.1	3385.2	3374.8	3364.5
42.5°	3647.4	3646.1	3652.5	3675.8	3691.3	3701.6	3679.6	3677.1
45°	3983.2	3974.1	3979.3	3998.7	4014.2	4025.8	4001.2	4001.2
47.5°	4352.5	4337.1	4320.3	4342.2	4351.3	4359.0	4339.6	4333.2
50°	4764.6	4732.3	4696.1	4705.1	4705.1	4702.6	4678.0	4676.7
52.5°	5237.3	5177.9	5112.0	5087.4	5073.2	5057.7	5015.1	4994.5
55°	5781.0	5691.9	5588.6	5525.3	5491.7	5449.1	5378.0	5358.7
57.5°	6416.5	6277.0	6098.7	6021.2	5946.3	5876.6	5797.8	5775.8
60°	7169.4	6964.1	6727.7	6584.4	6503.0	6435.8	6354.5	6350.6
62.5°	8008.9	7684.8	7417.4	7288.3	7228.8	7169.4	7091.9	7102.3
65°	8862.7	8524.3	8273.7	8169.1	8113.6	8064.5	7987.0	7998.6
67.5°	9704.8	9393.5	9118.4	9011.2	8949.2	8887.2	8817.5	8829.1
70°	10309.2	9923.0	9613.1	9375.4	9226.9	9059.0	8950.5	8923.4
72.5°	10136.1	9540.7	9048.7	8577.2	8300.8	8076.1	7923.7	7857.8
75°	8772.3	7958.6	7325.7	6747.1	6421.6	6156.9	5964.4	5844.3
77.5°	6514.6	5600.2	4852.4	4185.9	3659.0	3305.1	3055.8	2894.4
80°	3566.0	2712.3	1982.5	1393.6	1024.2	851.1	751.7	703.9
82.5°	1110.7	716.8	528.2	455.9	423.6	405.5	375.8	328.1
85°	353.9	310.0	288.0	275.1	262.2	228.6	157.6	143.4
87.5°	136.9	140.8	139.5	131.7	134.3	96.9	77.5	68.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)