

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: P191702

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191702
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: GLEON-AF-04-LED-E1-5WQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27744 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 258
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

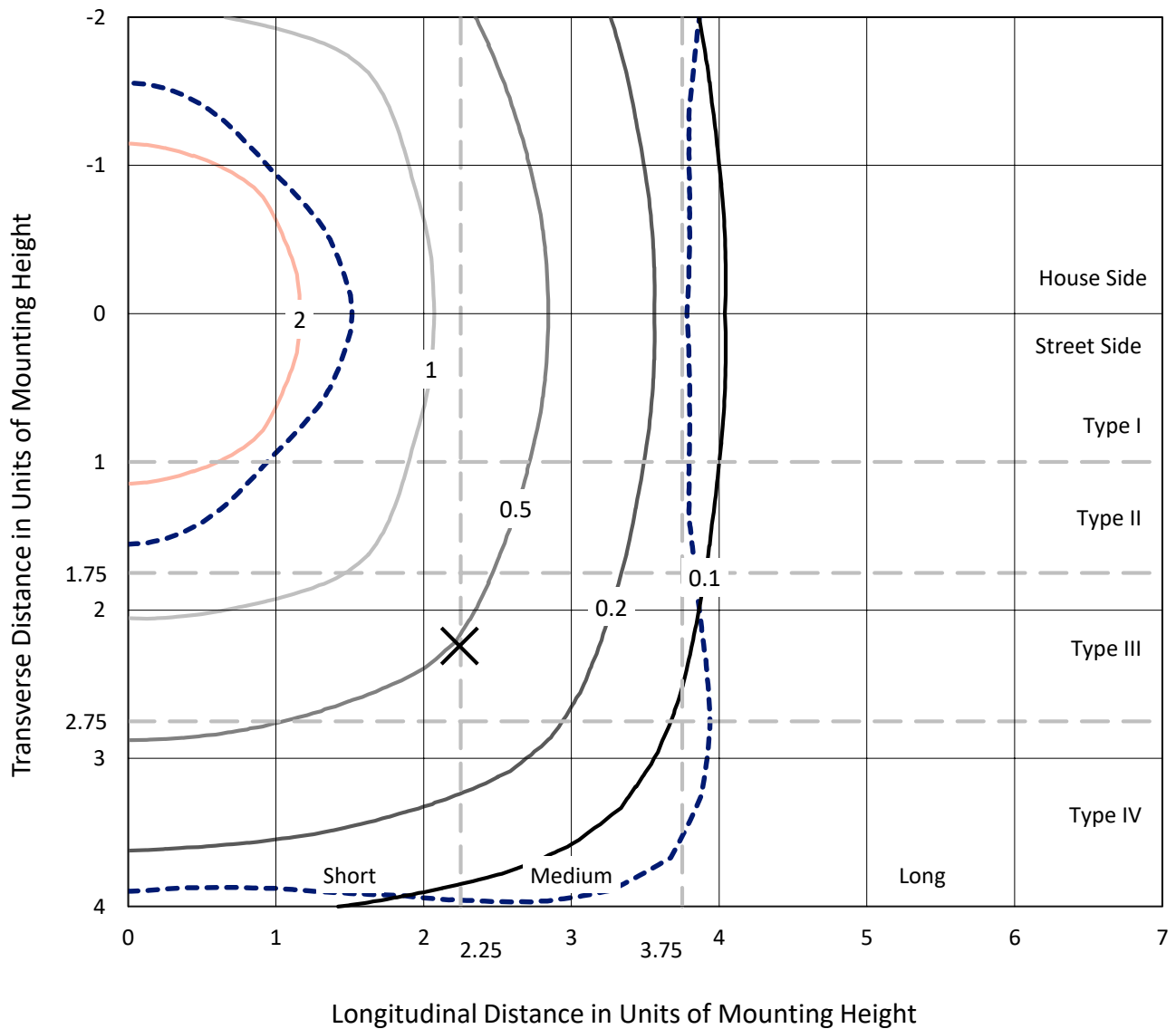


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

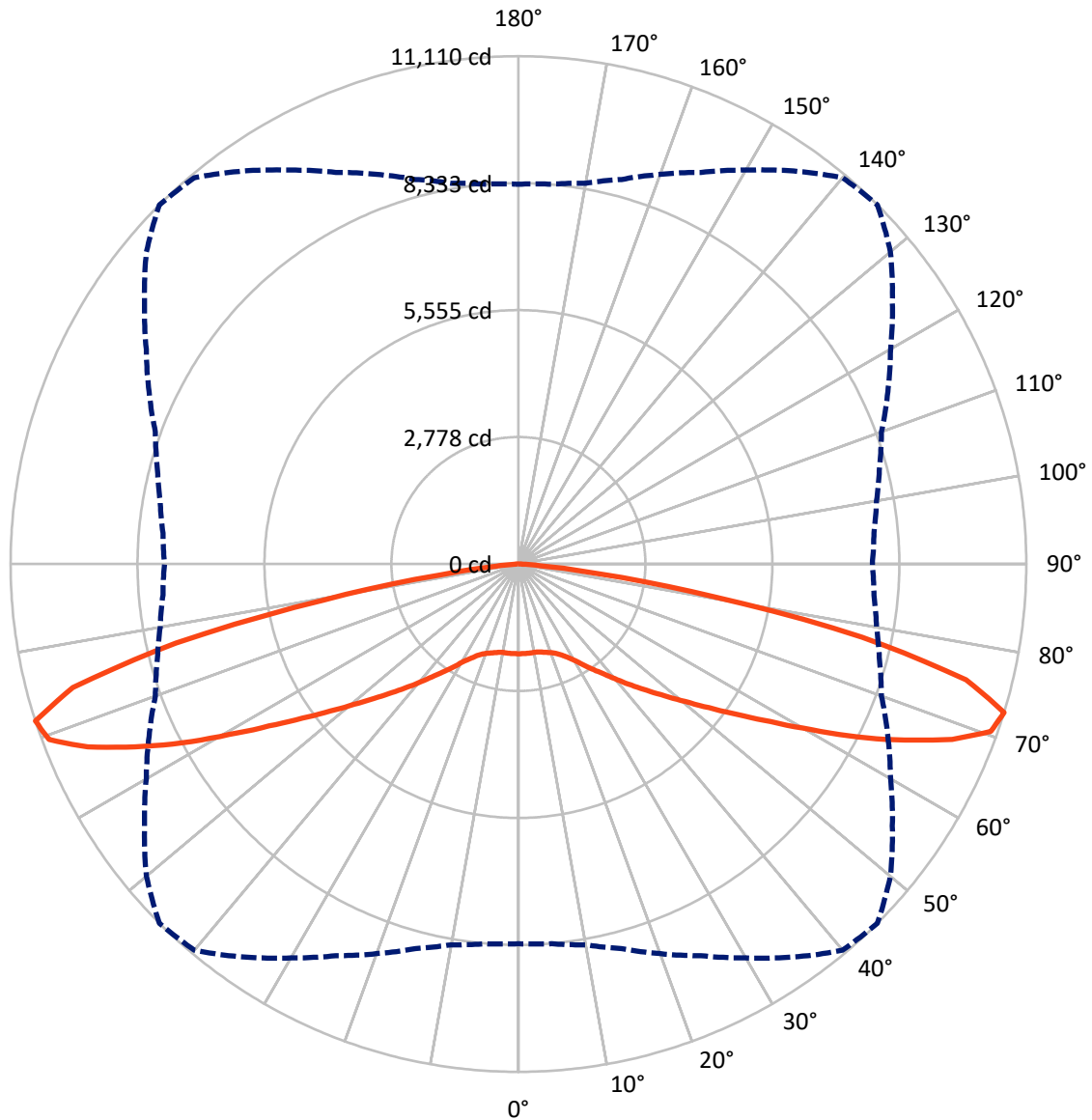


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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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	13872.0	0.0	13872.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13872.0	0.0	13872.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27744.0	0.0	27744.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	0.7
10°-20°	569.8	2.1
20°-30°	1041.2	3.8
30°-40°	1795.3	6.5
40°-50°	3069.0	11.1
50°-60°	4974.4	17.9
60°-70°	8252.3	29.7
70°-80°	7268.4	26.2
80°-90°	586.0	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°	27744.0	100.0
0°-180°	27744.0	100.0



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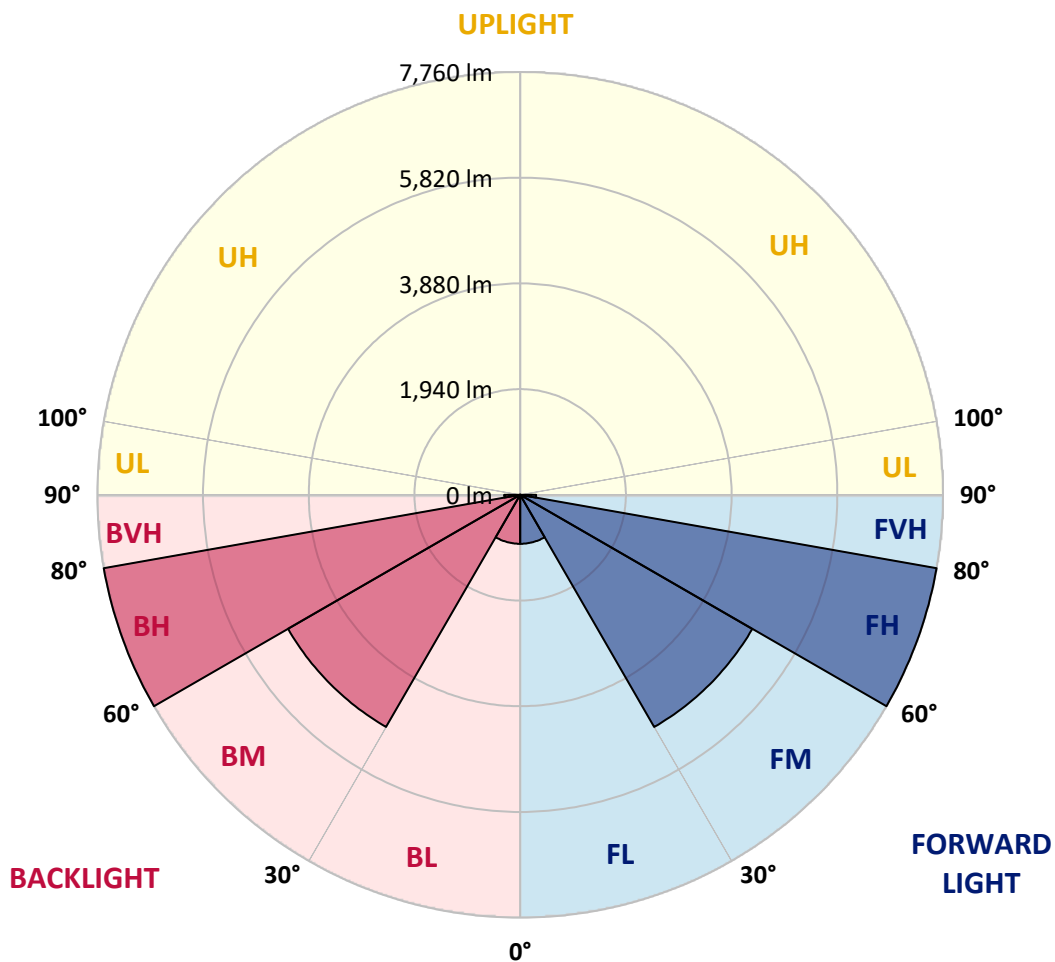
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	899.3	3.2			
FM	(30°-60°)	4919.3	17.7			
FH	(60°-80°)	7760.4	28.0			G4/12000
FVH	(80°-90°)	293.0	1.1			G3/500
BL	(0°-30°)	899.3	3.2	B2/1000		
BM	(30°-60°)	4919.3	17.7	B3/5000		
BH	(60°-80°)	7760.4	28.0	B5		G4/12000
BVH	(80°-90°)	293.0	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°	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7
2.5°	1964.7	1966.0	1967.3	1966.0	1966.0	1964.7	1963.4	1964.7	1963.4	1960.9	1962.2
5°	1971.1	1973.6	1973.6	1971.1	1972.3	1971.1	1968.5	1969.8	1967.3	1963.4	1963.4
7.5°	1978.7	1980.0	1980.0	1977.4	1978.7	1976.2	1973.6	1972.3	1969.8	1964.7	1960.9
10°	1990.2	1991.4	1990.2	1987.6	1987.6	1983.8	1977.4	1974.9	1969.8	1962.2	1958.3
12.5°	2002.9	2004.2	2002.9	2000.3	1999.1	1992.7	1987.6	1983.8	1980.0	1973.6	1967.3
15°	2020.7	2023.2	2020.7	2015.6	2011.8	2006.7	2004.2	2005.4	2006.7	2001.6	1995.2
17.5°	2053.8	2055.1	2051.2	2039.8	2034.7	2029.6	2029.6	2032.1	2036.0	2033.4	2027.1
20°	2114.9	2111.0	2102.1	2088.1	2081.8	2072.9	2071.6	2072.9	2072.9	2071.6	2066.5
22.5°	2191.2	2188.7	2177.2	2159.4	2150.5	2145.4	2137.8	2131.4	2130.1	2126.3	2121.2
25°	2282.8	2281.6	2267.6	2252.3	2245.9	2239.6	2233.2	2224.3	2216.7	2207.7	2202.7
27.5°	2399.9	2394.8	2374.4	2366.8	2357.9	2354.1	2345.2	2335.0	2328.6	2317.2	2310.8
30°	2528.4	2528.4	2511.9	2509.3	2509.3	2500.4	2490.2	2472.4	2461.0	2449.5	2445.7
32.5°	2656.9	2658.2	2641.7	2646.8	2650.6	2656.9	2659.5	2653.1	2645.5	2644.2	2636.6
35°	2842.7	2837.6	2821.1	2824.9	2823.6	2822.4	2822.4	2836.4	2838.9	2841.4	2826.2
37.5°	3073.0	3073.0	3056.5	3056.5	3048.9	3041.2	3031.0	3040.0	3053.9	3057.8	3047.6
40°	3336.4	3345.3	3325.0	3323.7	3326.3	3302.1	3290.6	3304.6	3313.5	3328.8	3317.4
42.5°	3646.9	3640.6	3620.2	3617.7	3603.7	3596.0	3585.8	3597.3	3611.3	3621.5	3625.3
45°	3944.7	3939.6	3916.7	3916.7	3902.7	3896.3	3901.4	3920.5	3926.9	3940.9	3954.9
47.5°	4238.6	4232.3	4217.0	4223.4	4224.6	4236.1	4252.6	4270.4	4288.3	4307.3	4313.7
50°	4538.9	4540.2	4523.7	4538.9	4558.0	4589.8	4634.4	4663.6	4700.5	4724.7	4732.3
52.5°	4812.5	4817.6	4835.4	4871.0	4909.2	4971.6	5047.9	5119.2	5180.3	5221.0	5218.4
55°	5140.8	5148.4	5191.7	5252.8	5315.1	5409.3	5522.6	5648.5	5750.3	5808.9	5772.0
57.5°	5560.7	5577.3	5625.6	5708.3	5801.2	5923.4	6078.6	6268.2	6426.0	6504.9	6445.1
60°	6137.2	6147.3	6205.9	6297.5	6409.5	6560.9	6768.3	7022.8	7245.5	7349.8	7281.1
62.5°	6896.8	6915.9	6963.0	7055.9	7170.4	7342.2	7595.4	7913.5	8190.9	8336.0	8180.8
65°	7804.1	7865.2	7904.6	7998.8	8105.7	8287.6	8552.3	8893.3	9191.1	9286.5	9107.1
67.5°	8702.5	8755.9	8824.6	8932.8	9041.0	9245.8	9491.4	9822.3	10149.3	10235.8	9957.1
70°	9095.7	9126.2	9233.1	9380.7	9588.1	9829.9	10113.7	10485.2	10889.9	10961.1	10607.4
72.5°	8308.0	8338.5	8458.2	8708.8	9070.2	9454.5	9949.5	10495.4	11029.8	11110.0	10622.6
75°	6283.5	6233.9	6410.7	6742.9	7230.2	7765.9	8458.2	9240.7	10013.1	10113.7	9532.1
77.5°	3247.4	3241.0	3374.6	3786.9	4368.4	4977.9	5740.1	6624.5	7380.4	7685.8	7212.4
80°	914.9	925.1	988.7	1193.6	1533.3	1973.6	2569.1	3397.5	4015.9	4331.5	4066.8
82.5°	358.8	386.8	411.0	449.2	493.7	558.6	745.7	1109.6	1488.8	1778.9	1457.0
85°	128.5	137.4	194.7	230.3	234.1	246.9	281.2	328.3	395.7	472.1	388.1
87.5°	48.4	53.4	62.4	103.1	101.8	92.9	113.3	118.3	89.1	81.4	100.5
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°	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7
2.5°	1959.6	1960.9	1960.9	1962.2	1963.4	1963.4	1966.0	1966.0
5°	1960.9	1960.9	1958.3	1959.6	1958.3	1958.3	1959.6	1959.6
7.5°	1958.3	1957.1	1954.5	1953.3	1950.7	1950.7	1950.7	1950.7
10°	1954.5	1953.3	1950.7	1949.4	1948.2	1948.2	1948.2	1948.2
12.5°	1964.7	1960.9	1958.3	1957.1	1957.1	1957.1	1957.1	1957.1
15°	1991.4	1982.5	1976.2	1976.2	1977.4	1980.0	1980.0	1982.5
17.5°	2024.5	2014.3	2008.0	2002.9	2005.4	2009.2	2011.8	2014.3
20°	2064.0	2058.9	2050.0	2044.9	2044.9	2050.0	2052.5	2053.8
22.5°	2118.7	2114.9	2111.0	2104.7	2104.7	2107.2	2112.3	2112.3
25°	2200.1	2197.6	2195.0	2189.9	2188.7	2188.7	2191.2	2193.8
27.5°	2301.9	2303.2	2300.6	2299.4	2295.6	2294.3	2298.1	2296.8
30°	2438.1	2444.4	2450.8	2445.7	2439.3	2435.5	2431.7	2426.6
32.5°	2622.6	2614.9	2609.9	2600.9	2589.5	2579.3	2571.7	2562.8
35°	2796.9	2784.2	2779.1	2786.7	2785.5	2779.1	2770.2	2762.5
37.5°	3010.7	3008.1	3010.7	3024.7	3022.1	3028.5	3010.7	3009.4
40°	3280.4	3283.0	3300.8	3317.4	3326.3	3335.2	3325.0	3314.8
42.5°	3593.5	3592.2	3598.6	3621.5	3636.7	3646.9	3625.3	3622.7
45°	3924.3	3915.4	3920.5	3939.6	3954.9	3966.3	3942.1	3942.1
47.5°	4288.3	4273.0	4256.4	4278.1	4287.0	4294.6	4275.5	4269.2
50°	4694.2	4662.4	4626.7	4635.6	4635.6	4633.1	4608.9	4607.6
52.5°	5159.9	5101.4	5036.5	5012.3	4998.3	4983.0	4941.0	4920.7
55°	5695.6	5607.8	5506.0	5443.7	5410.6	5368.6	5298.6	5279.5
57.5°	6321.7	6184.2	6008.6	5932.3	5858.5	5789.8	5712.2	5690.5
60°	7063.5	6861.2	6628.3	6487.1	6406.9	6340.8	6260.6	6256.8
62.5°	7890.6	7571.2	7307.8	7180.6	7122.1	7063.5	6987.2	6997.4
65°	8731.7	8398.4	8151.5	8048.4	7993.7	7945.4	7869.0	7880.5
67.5°	9561.4	9254.7	8983.7	8878.1	8817.0	8755.9	8687.2	8698.7
70°	10156.9	9776.4	9471.1	9236.9	9090.6	8925.2	8818.3	8791.6
72.5°	9986.4	9399.8	8915.0	8450.5	8178.2	7956.8	7806.7	7741.8
75°	8642.7	7841.0	7217.5	6647.4	6326.8	6065.9	5876.3	5758.0
77.5°	6418.4	5517.5	4780.7	4124.1	3604.9	3256.3	3010.7	2851.6
80°	3513.3	2672.2	1953.3	1373.0	1009.1	838.6	740.6	693.5
82.5°	1094.3	706.2	520.4	449.2	417.4	399.6	370.3	323.2
85°	348.7	305.4	283.8	271.0	258.3	225.2	155.2	141.2
87.5°	134.9	138.7	137.4	129.8	132.3	95.4	76.3	67.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)