

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: P191811

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-RW-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18576 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

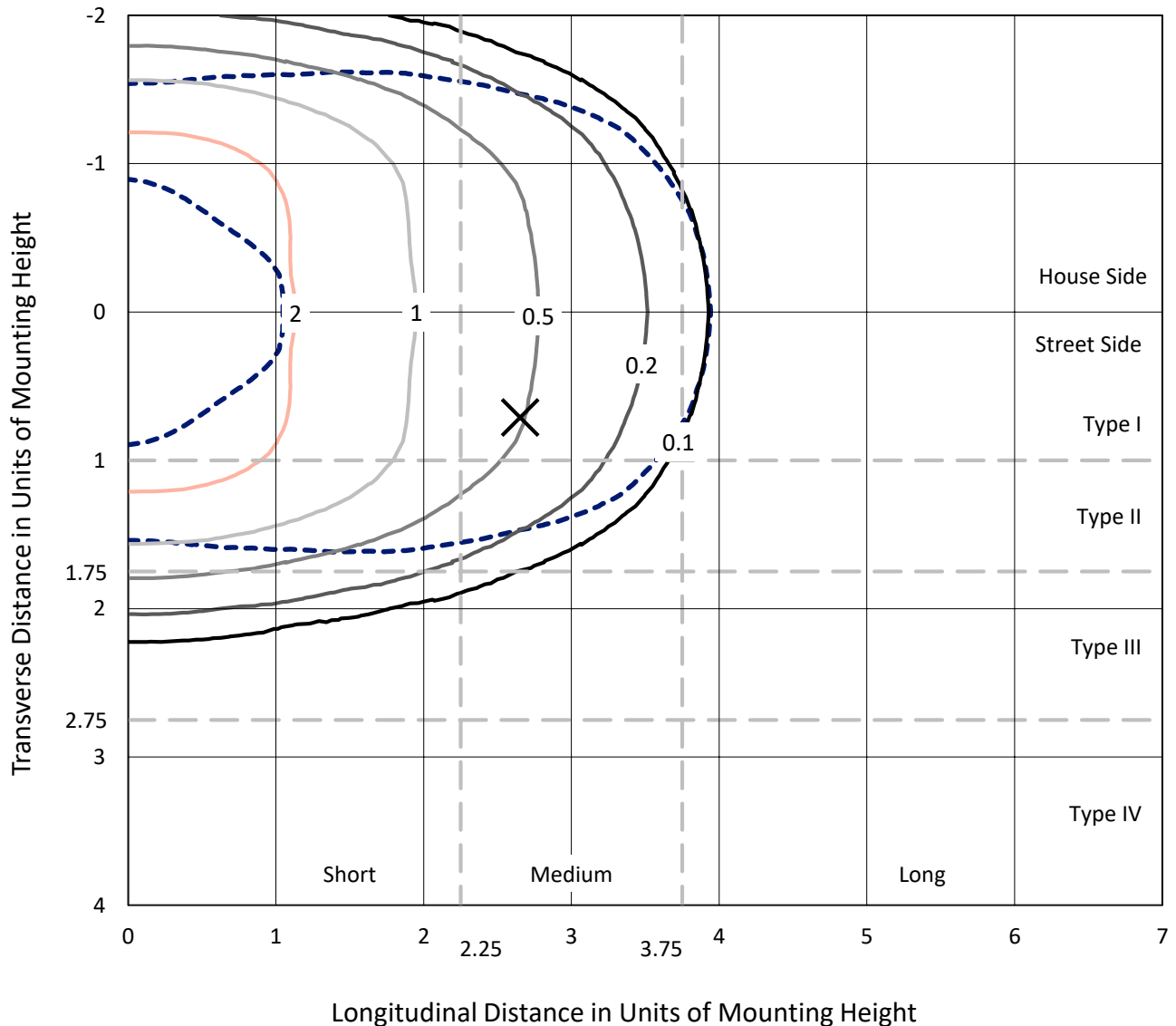
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

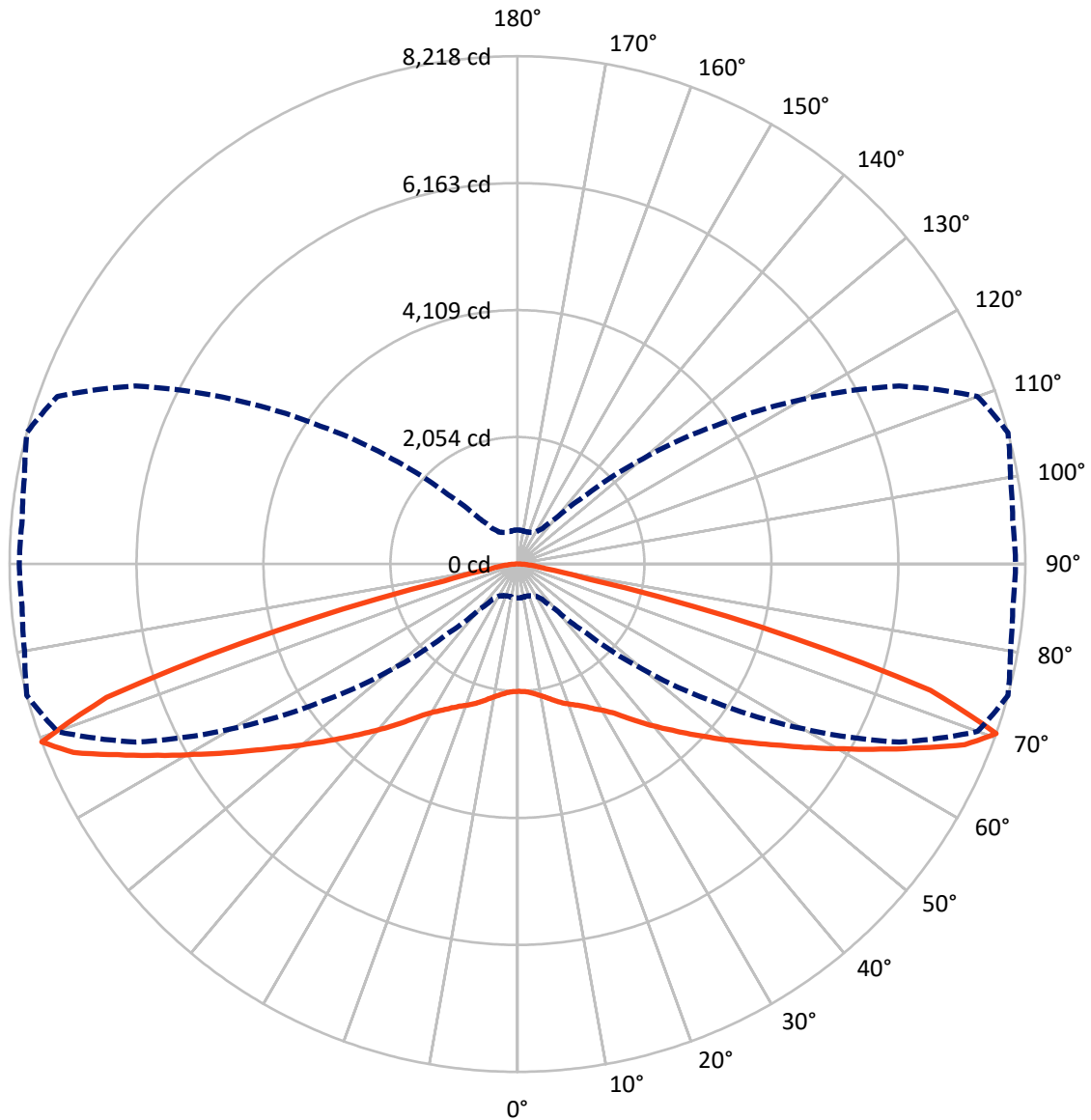
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9288.0	0.0	9288.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9288.0	0.0	9288.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18576.0	0.0	18576.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	1.1
10°-20°	614.0	3.3
20°-30°	1155.7	6.2
30°-40°	2046.5	11.0
40°-50°	3422.4	18.4
50°-60°	4769.2	25.7
60°-70°	4422.7	23.8
70°-80°	1762.6	9.5
80°-90°	185.3	1.0
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°	18576.0	100.0
0°-180°	18576.0	100.0



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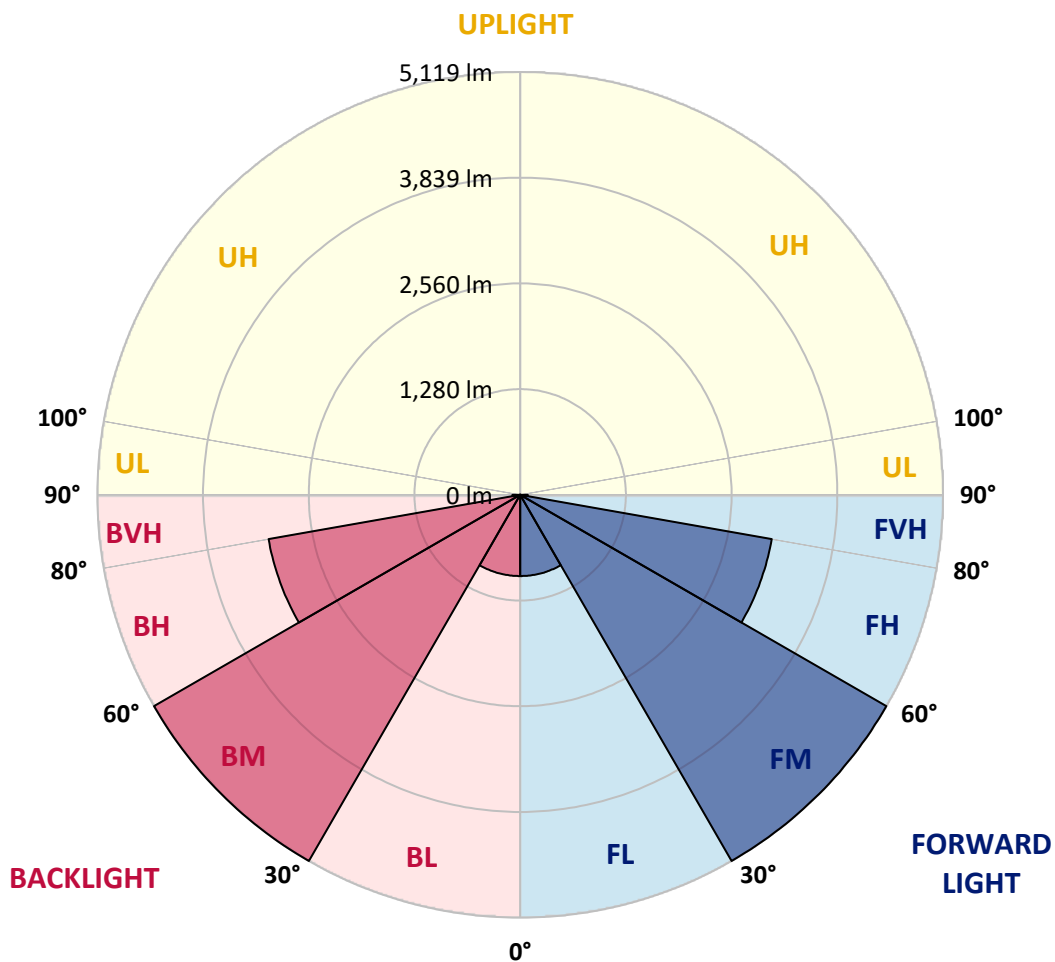
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	983.7	5.3			
FM	(30°-60°)	5119.1	27.6			
FH	(60°-80°)	3092.6	16.6			G2/5000
FVH	(80°-90°)	92.6	0.5			G1/100
BL	(0°-30°)	983.7	5.3	B2/1000		
BM	(30°-60°)	5119.1	27.6	B4/8500		
BH	(60°-80°)	3092.6	16.6	B4/5000		G4/5000
BVH	(80°-90°)	92.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5
2.5°	2057.0	2055.2	2057.0	2056.1	2057.9	2057.9	2059.6	2063.1	2063.1	2065.8	2064.9
5°	2036.8	2035.9	2038.6	2041.2	2043.8	2049.1	2054.4	2062.3	2068.4	2072.8	2077.2
7.5°	1997.3	1997.3	2000.8	2007.0	2013.1	2024.5	2036.8	2052.6	2068.4	2081.6	2093.0
10°	1964.8	1966.6	1971.0	1981.5	1992.0	2009.6	2026.3	2049.1	2071.0	2093.0	2110.6
12.5°	1945.5	1948.1	1956.0	1971.8	1989.4	2013.1	2038.6	2067.5	2092.1	2118.5	2136.0
15°	1951.6	1953.4	1964.8	1984.1	2007.0	2036.8	2071.0	2105.3	2134.3	2162.4	2186.1
17.5°	1985.9	1988.5	2001.7	2023.6	2047.3	2082.5	2119.3	2158.0	2194.0	2225.6	2254.5
20°	2047.3	2050.0	2066.7	2090.4	2118.5	2154.5	2191.3	2231.7	2272.1	2305.5	2337.9
22.5°	2134.3	2138.6	2154.5	2178.2	2209.8	2248.4	2292.3	2335.3	2373.9	2404.7	2433.6
25°	2248.4	2258.0	2273.0	2299.3	2332.7	2367.8	2415.2	2459.1	2496.0	2524.9	2546.0
27.5°	2409.9	2423.1	2434.5	2460.0	2492.5	2525.8	2573.2	2611.9	2647.0	2675.1	2690.9
30°	2624.1	2637.3	2648.7	2673.3	2703.2	2734.8	2779.5	2813.8	2835.7	2857.7	2856.8
32.5°	2884.0	2898.1	2902.5	2928.8	2959.5	2993.8	3034.1	3053.5	3071.0	3073.6	3057.8
35°	3174.6	3181.6	3199.2	3234.3	3269.4	3297.5	3336.1	3345.8	3345.8	3332.6	3297.5
37.5°	3493.3	3497.7	3522.3	3561.8	3597.8	3626.7	3653.1	3672.4	3662.7	3634.6	3575.8
40°	3842.7	3850.6	3885.7	3920.9	3961.2	3988.5	4016.5	4020.1	4010.4	3969.1	3889.2
42.5°	4176.3	4183.4	4218.5	4273.8	4326.5	4364.2	4390.5	4395.8	4365.1	4327.3	4228.1
45°	4463.4	4481.9	4527.5	4592.5	4668.9	4722.4	4758.4	4773.3	4746.1	4696.9	4581.9
47.5°	4690.8	4709.2	4774.2	4851.5	4946.3	5033.2	5092.9	5124.5	5117.5	5080.6	4955.1
50°	4857.6	4875.2	4945.4	5040.2	5150.8	5258.8	5360.7	5436.2	5462.5	5445.8	5330.8
52.5°	4876.9	4905.9	4988.4	5115.7	5259.7	5407.2	5552.1	5680.2	5767.1	5780.3	5695.2
55°	4607.4	4636.4	4750.5	4939.3	5153.5	5394.0	5625.8	5841.8	6013.0	6100.8	6056.0
57.5°	3971.8	4023.6	4143.8	4365.1	4680.3	5040.2	5409.8	5793.5	6142.0	6374.7	6419.5
60°	3043.8	3105.3	3226.4	3461.7	3812.9	4242.2	4735.6	5302.7	5918.2	6441.4	6753.9
62.5°	1952.5	2010.5	2137.8	2342.3	2628.5	3093.8	3623.2	4296.6	5123.6	5949.8	6694.2
65°	1003.5	1035.1	1101.8	1225.6	1448.6	1796.3	2271.2	2942.8	3888.4	4907.7	5984.0
67.5°	635.6	641.8	656.7	674.3	731.3	851.6	1072.8	1491.6	2269.5	3332.6	4592.5
70°	549.6	549.6	542.6	539.9	547.0	563.6	597.9	695.3	957.8	1582.0	2648.7
72.5°	503.1	497.8	485.5	475.8	474.1	474.1	481.1	496.0	538.2	644.4	1036.8
75°	463.5	448.6	431.9	420.5	416.1	411.8	410.9	413.5	422.3	439.0	495.2
77.5°	415.3	395.9	376.6	365.2	360.0	353.8	348.5	342.4	338.0	343.3	367.9
80°	357.3	335.4	320.4	313.4	308.2	299.4	288.0	277.4	267.8	266.0	280.9
82.5°	288.0	262.5	263.4	266.0	256.4	244.1	231.8	220.4	203.7	194.9	203.7
85°	232.7	219.5	213.3	230.0	216.0	197.5	178.2	158.0	131.7	110.6	120.3
87.5°	90.4	90.4	135.2	208.1	187.0	152.8	130.8	111.5	69.4	53.6	54.4
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°	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5
2.5°	2064.0	2065.8	2064.9	2064.0	2064.0	2063.1	2064.0	2064.0
5°	2079.8	2084.2	2084.2	2086.0	2086.0	2086.8	2087.7	2086.8
7.5°	2103.5	2111.4	2116.7	2122.8	2123.7	2124.6	2126.4	2124.6
10°	2127.2	2143.0	2154.5	2165.9	2171.1	2172.9	2174.6	2174.6
12.5°	2157.1	2179.0	2199.2	2219.4	2229.1	2234.3	2234.3	2237.9
15°	2206.2	2228.2	2251.9	2279.1	2295.8	2304.6	2307.2	2307.2
17.5°	2275.6	2294.9	2315.1	2341.5	2362.5	2373.9	2376.6	2375.7
20°	2356.4	2374.8	2386.2	2402.9	2421.3	2434.5	2438.0	2438.0
22.5°	2448.6	2459.1	2460.8	2466.1	2481.0	2498.6	2506.5	2508.3
25°	2550.4	2553.0	2546.0	2546.0	2555.7	2572.3	2580.2	2581.1
27.5°	2682.1	2668.9	2651.4	2645.2	2651.4	2670.7	2680.3	2683.8
30°	2846.3	2814.7	2774.3	2752.3	2748.8	2774.3	2791.8	2794.5
32.5°	3034.1	2988.5	2934.9	2890.2	2878.7	2894.5	2915.6	2914.7
35°	3257.1	3202.7	3137.7	3080.7	3054.3	3070.1	3100.0	3103.5
37.5°	3514.4	3443.3	3368.6	3296.6	3255.4	3259.8	3291.4	3301.9
40°	3801.5	3709.3	3615.3	3518.8	3459.9	3448.5	3487.2	3493.3
42.5°	4108.7	3990.2	3871.7	3752.3	3676.8	3659.2	3704.0	3701.4
45°	4436.2	4285.2	4146.5	4014.8	3925.2	3898.9	3935.8	3935.8
47.5°	4788.3	4602.1	4437.1	4287.8	4190.4	4152.6	4187.7	4190.4
50°	5161.4	4963.8	4769.8	4603.9	4487.1	4438.8	4484.5	4491.5
52.5°	5532.7	5340.5	5144.7	4955.1	4813.7	4754.9	4807.6	4830.4
55°	5909.4	5720.6	5533.6	5348.4	5180.7	5111.3	5167.5	5196.5
57.5°	6307.1	6132.4	5954.1	5767.1	5605.6	5497.6	5557.3	5596.0
60°	6773.3	6624.0	6438.8	6232.5	6069.2	5959.4	5993.7	6027.9
62.5°	7142.0	7199.9	7042.8	6804.0	6594.2	6453.7	6487.1	6523.1
65°	6963.8	7558.1	7697.7	7456.3	7165.7	6947.1	6933.0	6951.5
67.5°	5820.7	6975.2	7817.1	8047.1	7804.0	7500.2	7444.0	7471.2
70°	3893.6	5331.7	6817.2	7923.4	8217.5	8099.8	8044.5	8061.2
72.5°	1870.0	3105.3	4625.0	6095.5	6991.0	7401.9	7533.6	7597.6
75°	683.9	1232.6	2229.1	3359.0	4055.2	4694.3	5111.3	5281.7
77.5°	412.6	497.8	712.0	1072.0	1214.2	1359.0	1302.9	1330.9
80°	305.5	345.0	390.7	439.0	454.8	454.8	437.2	423.2
82.5°	214.2	239.7	261.6	288.0	295.0	281.8	231.8	184.4
85°	137.8	149.2	158.9	175.6	171.2	163.3	109.7	97.5
87.5°	63.2	72.0	75.5	83.4	79.9	76.4	54.4	45.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)