

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: P190992

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190992
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-04-LED-E1-RW-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16542.1 lumens
Efficiency: N/A
Efficacy: 128.2 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

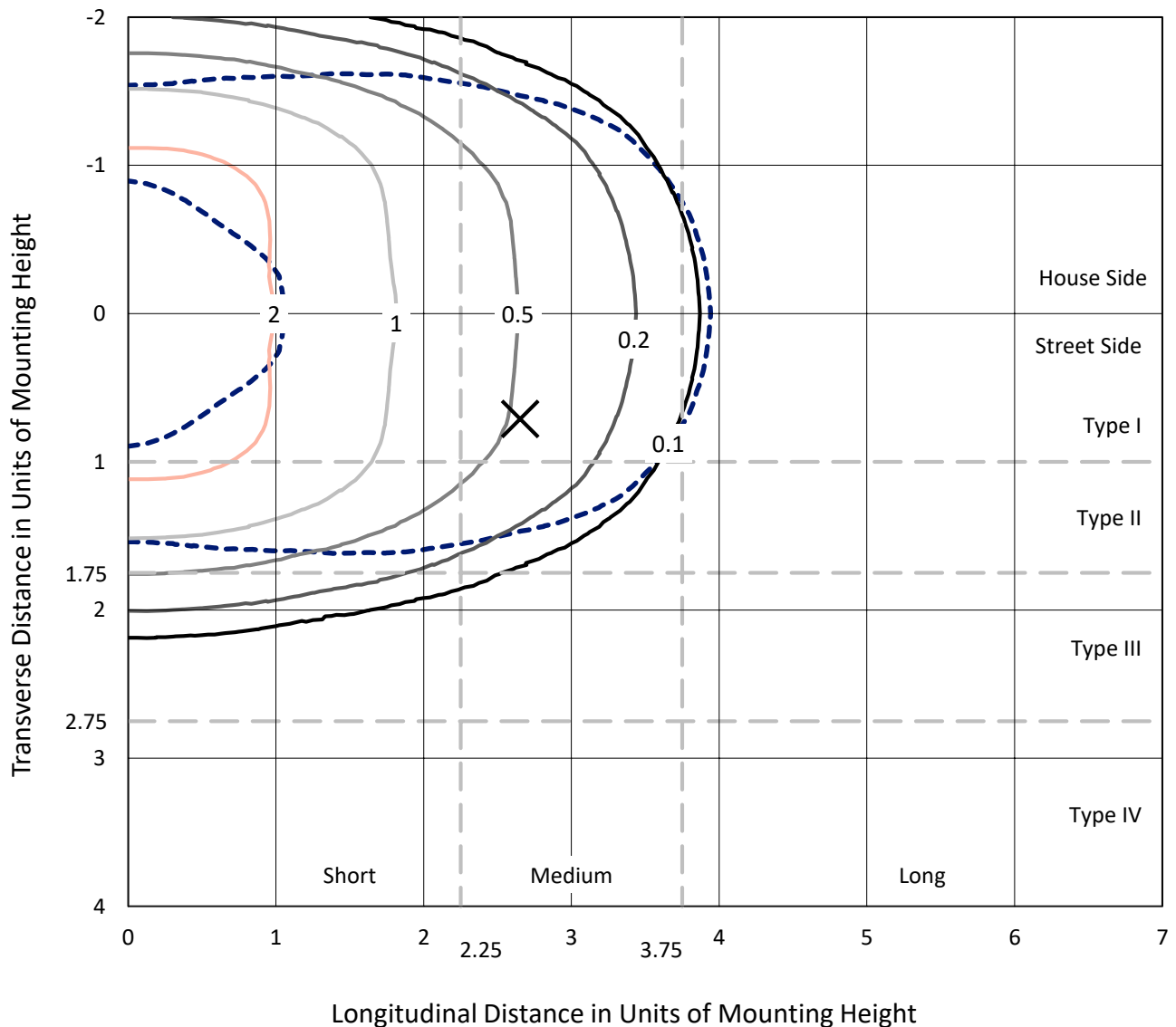
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

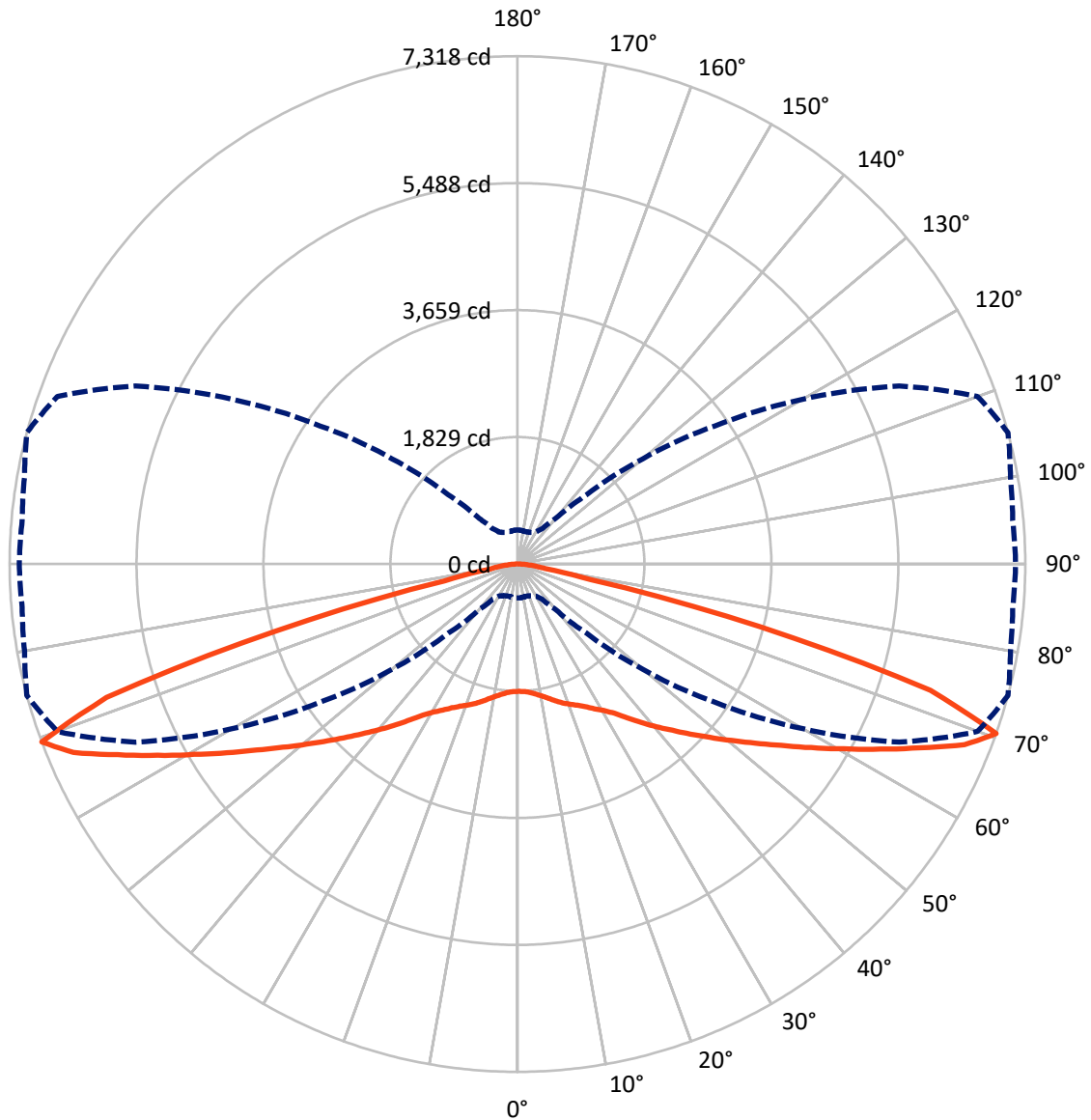


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - Full Cutoff

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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	8271.1	0.0	8271.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8271.1	0.0	8271.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	16542.1	0.0	16542.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	1.1
10°-20°	546.8	3.3
20°-30°	1029.2	6.2
30°-40°	1822.5	11.0
40°-50°	3047.7	18.4
50°-60°	4247.0	25.7
60°-70°	3938.4	23.8
70°-80°	1569.6	9.5
80°-90°	165.0	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°	16542.1	100.0
0°-180°	16542.1	100.0



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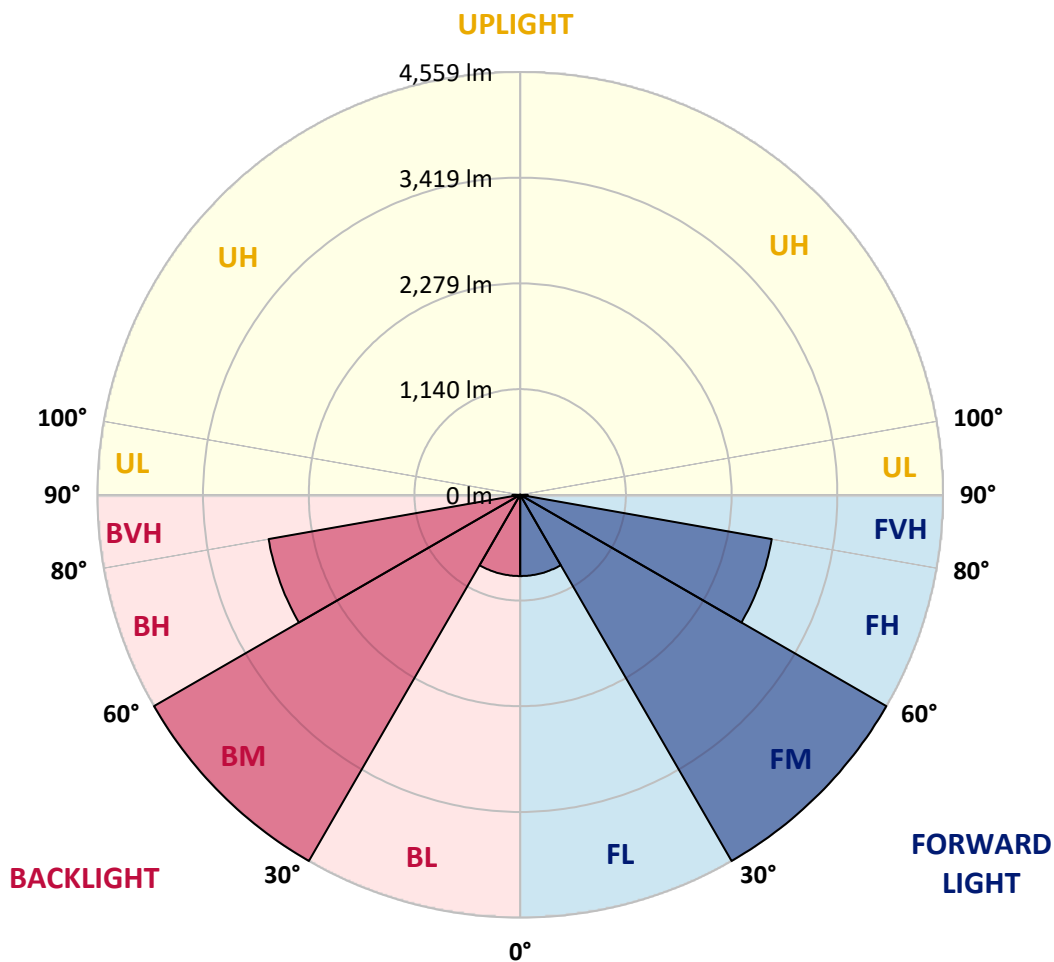
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	876.0	5.3			
FM	(30°-60°)	4558.6	27.6			
FH	(60°-80°)	2754.0	16.6			G2/5000
FVH	(80°-90°)	82.5	0.5			G1/100
BL	(0°-30°)	876.0	5.3	B2/1000		
BM	(30°-60°)	4558.6	27.6	B3/5000		
BH	(60°-80°)	2754.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	82.5	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°	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9
2.5°	1831.8	1830.3	1831.8	1831.0	1832.5	1832.5	1834.2	1837.2	1837.2	1839.6	1838.9
5°	1813.8	1813.0	1815.3	1817.7	1820.0	1824.7	1829.4	1836.5	1841.9	1845.8	1849.8
7.5°	1778.6	1778.6	1781.8	1787.2	1792.7	1802.8	1813.8	1827.9	1841.9	1853.7	1863.8
10°	1749.7	1751.3	1755.2	1764.6	1773.9	1789.6	1804.4	1824.7	1844.3	1863.8	1879.5
12.5°	1732.5	1734.8	1741.9	1755.9	1771.5	1792.7	1815.3	1841.2	1863.1	1886.5	1902.2
15°	1738.0	1739.5	1749.7	1766.8	1787.2	1813.8	1844.3	1874.8	1900.5	1925.6	1946.7
17.5°	1768.5	1770.8	1782.5	1802.0	1823.2	1854.4	1887.2	1921.7	1953.7	1981.9	2007.6
20°	1823.2	1825.6	1840.4	1861.5	1886.5	1918.5	1951.4	1987.4	2023.3	2053.1	2081.9
22.5°	1900.5	1904.5	1918.5	1939.7	1967.9	2002.2	2041.3	2079.7	2114.0	2141.3	2167.2
25°	2002.2	2010.8	2024.1	2047.5	2077.3	2108.5	2150.8	2189.8	2222.7	2248.4	2267.3
27.5°	2146.0	2157.8	2167.9	2190.6	2219.6	2249.3	2291.5	2325.9	2357.2	2382.1	2396.3
30°	2336.8	2348.6	2358.7	2380.6	2407.2	2435.3	2475.2	2505.7	2525.3	2544.8	2544.0
32.5°	2568.2	2580.8	2584.7	2608.1	2635.5	2666.0	2701.9	2719.1	2734.8	2737.1	2723.1
35°	2827.0	2833.3	2848.9	2880.2	2911.4	2936.5	2970.9	2979.4	2979.4	2967.8	2936.5
37.5°	3110.8	3114.8	3136.6	3171.8	3203.9	3229.7	3253.1	3270.3	3261.7	3236.7	3184.3
40°	3422.0	3429.0	3460.3	3491.5	3527.5	3551.8	3576.7	3579.9	3571.3	3534.6	3463.4
42.5°	3719.0	3725.3	3756.6	3805.9	3852.7	3886.4	3909.8	3914.5	3887.1	3853.6	3765.2
45°	3974.7	3991.1	4031.8	4089.7	4157.7	4205.4	4237.4	4250.7	4226.4	4182.6	4080.2
47.5°	4177.2	4193.6	4251.5	4320.3	4404.7	4482.2	4535.3	4563.4	4557.1	4524.3	4412.5
50°	4325.8	4341.4	4403.9	4488.4	4586.9	4683.1	4773.7	4841.0	4864.4	4849.6	4747.1
52.5°	4342.9	4368.7	4442.3	4555.6	4683.8	4815.1	4944.1	5058.3	5135.7	5147.5	5071.6
55°	4103.0	4128.7	4230.4	4398.5	4589.3	4803.5	5009.8	5202.1	5354.6	5432.8	5392.9
57.5°	3537.0	3583.0	3690.2	3887.1	4167.8	4488.4	4817.5	5159.2	5469.5	5676.8	5716.6
60°	2710.5	2765.2	2873.2	3082.7	3395.4	3777.8	4217.1	4722.1	5270.1	5736.1	6014.4
62.5°	1738.7	1790.4	1903.7	2085.9	2340.7	2755.1	3226.5	3826.1	4562.7	5298.4	5961.3
65°	893.6	921.8	981.2	1091.4	1289.9	1599.6	2022.6	2620.6	3462.7	4370.4	5328.9
67.5°	566.0	571.5	584.8	600.5	651.2	758.3	955.3	1328.3	2020.9	2967.8	4089.7
70°	489.4	489.4	483.1	480.8	487.0	502.0	532.4	619.2	852.9	1408.8	2358.7
72.5°	448.0	443.2	432.3	423.7	422.2	422.2	428.4	441.7	479.3	573.9	923.3
75°	412.8	399.5	384.6	374.5	370.6	366.6	365.9	368.3	376.0	390.9	440.9
77.5°	369.8	352.6	335.4	325.2	320.6	315.1	310.4	304.9	301.0	305.7	327.5
80°	318.2	298.7	285.4	279.1	274.5	266.6	256.5	247.0	238.4	236.9	250.2
82.5°	256.5	233.7	234.6	236.9	228.3	217.4	206.4	196.2	181.4	173.6	181.4
85°	207.1	195.5	190.0	204.8	192.3	175.9	158.7	140.8	117.2	98.5	107.1
87.5°	80.5	80.5	120.4	185.3	166.5	136.1	116.5	99.3	61.8	47.7	48.5
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°	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9
2.5°	1838.0	1839.6	1838.9	1838.0	1838.0	1837.2	1838.0	1838.0
5°	1852.2	1856.0	1856.0	1857.6	1857.6	1858.4	1859.1	1858.4
7.5°	1873.2	1880.3	1885.0	1890.4	1891.2	1891.9	1893.6	1891.9
10°	1894.3	1908.4	1918.5	1928.8	1933.4	1935.0	1936.5	1936.5
12.5°	1920.9	1940.4	1958.4	1976.4	1985.0	1989.7	1989.7	1992.8
15°	1964.7	1984.2	2005.4	2029.5	2044.5	2052.2	2054.6	2054.6
17.5°	2026.5	2043.7	2061.7	2085.1	2103.8	2114.0	2116.4	2115.6
20°	2098.4	2114.7	2125.0	2139.8	2156.3	2167.9	2171.1	2171.1
22.5°	2180.4	2189.8	2191.4	2196.1	2209.4	2225.0	2232.1	2233.6
25°	2271.2	2273.5	2267.3	2267.3	2275.9	2290.7	2297.8	2298.6
27.5°	2388.4	2376.7	2361.1	2355.5	2361.1	2378.3	2386.9	2390.0
30°	2534.7	2506.4	2470.5	2451.0	2447.8	2470.5	2486.2	2488.5
32.5°	2701.9	2661.3	2613.6	2573.7	2563.5	2577.6	2596.4	2595.6
35°	2900.5	2852.1	2794.2	2743.3	2719.9	2734.0	2760.5	2763.7
37.5°	3129.6	3066.3	2999.8	2935.7	2898.9	2902.8	2931.0	2940.4
40°	3385.3	3303.1	3219.5	3133.5	3081.1	3071.0	3105.4	3110.8
42.5°	3658.9	3553.3	3447.8	3341.5	3274.3	3258.6	3298.5	3296.2
45°	3950.5	3816.0	3692.4	3575.2	3495.4	3472.0	3504.8	3504.8
47.5°	4264.0	4098.2	3951.2	3818.4	3731.6	3698.0	3729.3	3731.6
50°	4596.2	4420.4	4247.6	4099.8	3995.9	3952.8	3993.5	3999.7
52.5°	4926.9	4755.8	4581.4	4412.5	4286.7	4234.3	4281.2	4301.5
55°	5262.4	5094.3	4927.8	4762.8	4613.5	4551.7	4601.7	4627.5
57.5°	5616.5	5460.9	5302.3	5135.7	4991.9	4895.7	4948.8	4983.3
60°	6031.6	5898.7	5733.8	5550.0	5404.7	5307.0	5337.5	5367.9
62.5°	6360.0	6411.7	6271.7	6059.0	5872.1	5747.0	5776.8	5808.8
65°	6201.3	6730.6	6854.9	6639.9	6381.2	6186.5	6173.9	6190.4
67.5°	5183.4	6211.5	6961.3	7166.1	6949.5	6679.1	6628.9	6653.2
70°	3467.3	4747.9	6070.8	7055.8	7317.8	7213.0	7163.7	7178.6
72.5°	1665.3	2765.2	4118.6	5428.1	6225.6	6591.5	6708.7	6765.8
75°	609.1	1097.6	1985.0	2991.2	3611.2	4180.3	4551.7	4703.3
77.5°	367.4	443.2	634.0	954.6	1081.3	1210.3	1160.2	1185.2
80°	272.1	307.3	347.9	390.9	405.0	405.0	389.3	376.9
82.5°	190.8	213.4	233.0	256.5	262.7	250.9	206.4	164.2
85°	122.8	132.9	141.5	156.4	152.4	145.5	97.7	86.7
87.5°	56.3	64.1	67.2	74.3	71.1	68.0	48.5	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)