

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: P269141

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269141
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16138.5 lumens
Efficiency: N/A
Efficacy: 97.2 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

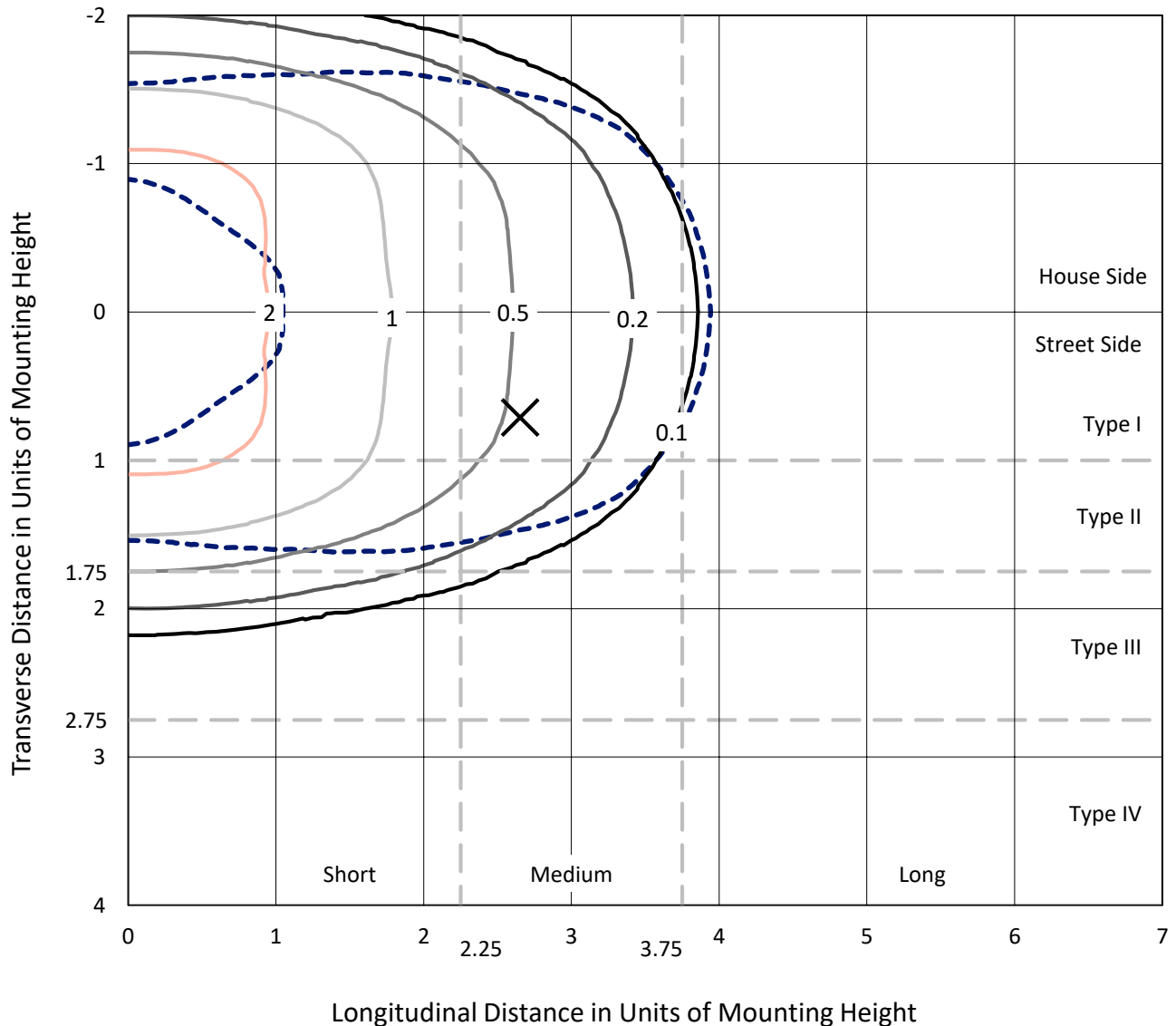
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

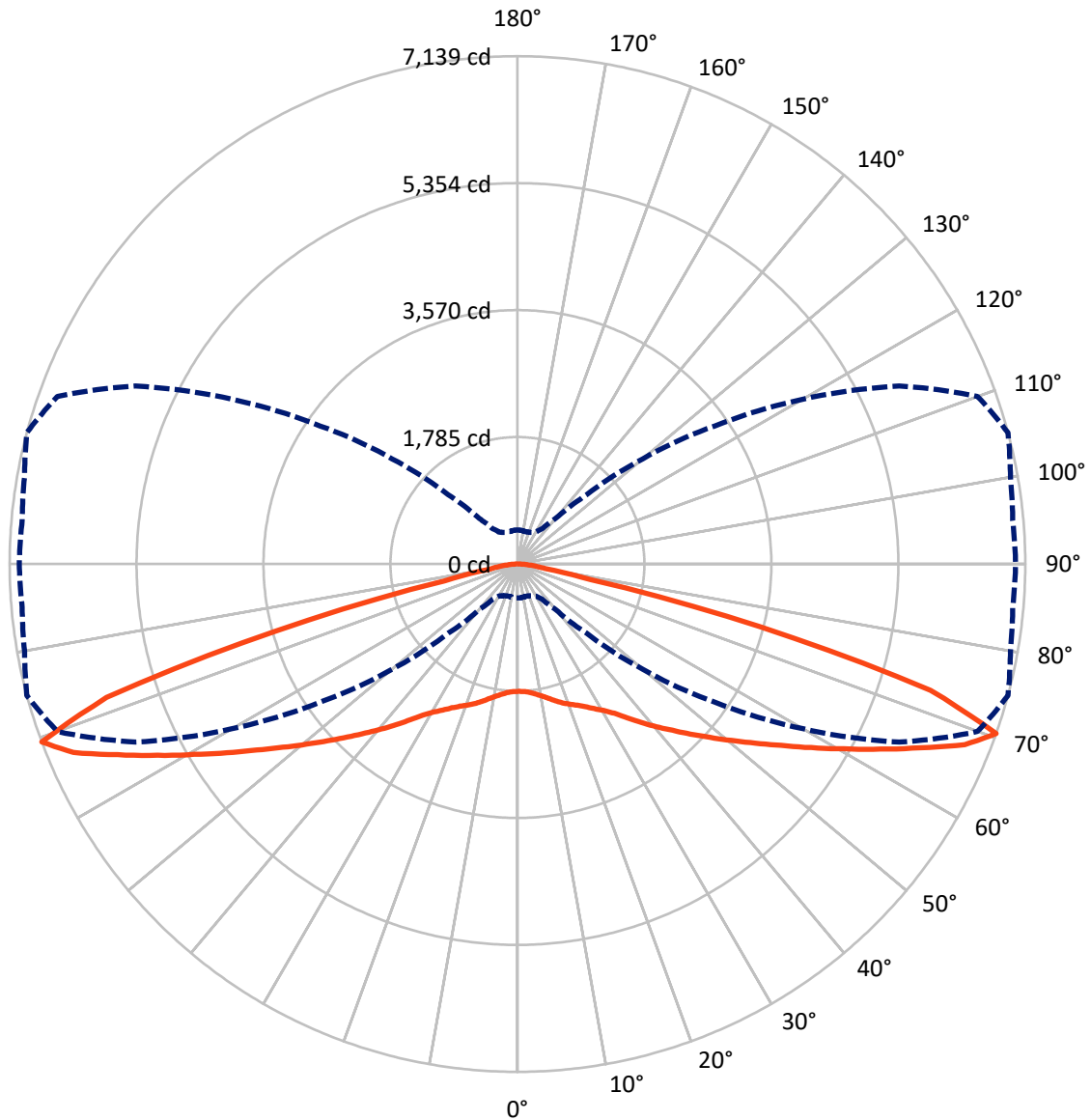
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	8069.3	0.0	8069.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8069.3	0.0	8069.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	16138.5	0.0	16138.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	1.1
10°-20°	533.5	3.3
20°-30°	1004.1	6.2
30°-40°	1778.0	11.0
40°-50°	2973.4	18.4
50°-60°	4143.4	25.7
60°-70°	3842.3	23.8
70°-80°	1531.3	9.5
80°-90°	161.0	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°	16138.5	100.0
0°-180°	16138.5	100.0

Coefficient of Utilization



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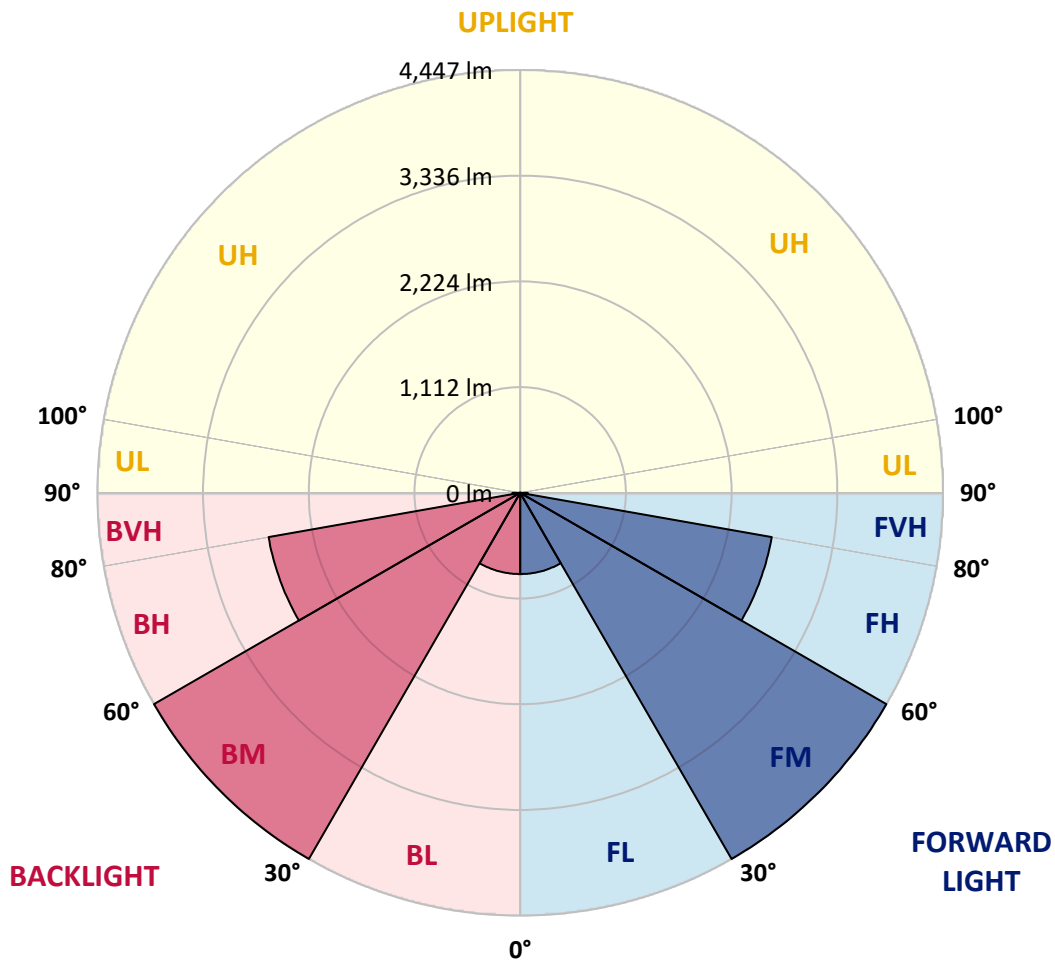
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	854.6	5.3			
FM	(30°-60°)	4447.4	27.6			
FH	(60°-80°)	2686.8	16.6			G2/5000
FVH	(80°-90°)	80.5	0.5			G1/100
BL	(0°-30°)	854.6	5.3	B2/1000		
BM	(30°-60°)	4447.4	27.6	B3/5000		
BH	(60°-80°)	2686.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	80.5	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°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	1787.1	1785.6	1787.1	1786.3	1787.8	1787.8	1789.3	1792.4	1792.4	1794.8	1793.9
5°	1769.5	1768.9	1771.1	1773.3	1775.6	1780.3	1784.8	1791.7	1797.0	1800.8	1804.7
7.5°	1735.3	1735.3	1738.3	1743.6	1748.9	1758.8	1769.5	1783.2	1797.0	1808.5	1818.3
10°	1707.0	1708.5	1712.3	1721.5	1730.7	1745.9	1760.4	1780.3	1799.2	1818.3	1833.6
12.5°	1690.3	1692.4	1699.4	1713.1	1728.3	1748.9	1771.1	1796.3	1817.6	1840.4	1855.7
15°	1695.6	1697.1	1707.0	1723.8	1743.6	1769.5	1799.2	1828.9	1854.2	1878.6	1899.1
17.5°	1725.4	1727.6	1738.9	1758.2	1778.7	1809.1	1841.3	1874.9	1906.1	1933.5	1958.8
20°	1778.7	1781.0	1795.5	1816.1	1840.4	1871.8	1903.8	1938.9	1973.9	2003.0	2031.2
22.5°	1854.2	1858.1	1871.8	1892.3	1919.8	1953.4	1991.5	2028.9	2062.4	2089.1	2114.3
25°	1953.4	1961.8	1974.7	1997.7	2026.5	2057.1	2098.4	2136.3	2168.5	2193.7	2211.9
27.5°	2093.7	2105.2	2115.1	2137.2	2165.5	2194.4	2235.6	2269.1	2299.7	2324.1	2337.7
30°	2279.8	2291.2	2301.2	2322.5	2348.4	2375.8	2414.9	2444.6	2463.6	2482.6	2481.9
32.5°	2505.6	2517.8	2521.6	2544.4	2571.2	2601.0	2635.9	2652.8	2668.1	2670.3	2656.6
35°	2758.1	2764.2	2779.4	2809.9	2840.4	2864.9	2898.4	2906.7	2906.7	2895.3	2864.9
37.5°	3035.0	3038.7	3060.0	3094.4	3125.7	3150.9	3173.7	3190.5	3182.2	3157.7	3106.6
40°	3338.6	3345.4	3375.9	3406.4	3441.4	3465.1	3489.5	3492.6	3484.2	3448.4	3379.0
42.5°	3628.3	3634.5	3664.9	3713.0	3758.8	3791.6	3814.5	3819.1	3792.4	3759.4	3673.3
45°	3877.8	3893.8	3933.4	3989.8	4056.1	4102.7	4134.0	4146.9	4123.3	4080.6	3980.7
47.5°	4075.3	4091.3	4147.7	4214.8	4297.2	4372.8	4424.6	4452.1	4446.0	4413.9	4304.9
50°	4220.1	4235.5	4296.5	4378.9	4474.9	4568.8	4657.3	4722.8	4745.7	4731.3	4631.3
52.5°	4236.9	4262.2	4333.9	4444.5	4569.6	4697.6	4823.4	4934.8	5010.3	5021.9	4947.9
55°	4002.8	4028.0	4127.2	4291.2	4477.2	4686.3	4887.6	5075.2	5224.0	5300.2	5261.4
57.5°	3450.6	3495.7	3600.0	3792.4	4066.2	4378.9	4699.9	5033.3	5336.1	5538.2	5577.0
60°	2644.4	2697.8	2803.0	3007.4	3312.6	3685.6	4114.1	4606.9	5141.5	5596.3	5867.6
62.5°	1696.3	1746.7	1857.2	2035.0	2283.6	2687.9	3147.8	3732.7	4451.3	5169.0	5815.8
65°	871.9	899.3	957.2	1064.9	1258.5	1560.5	1973.1	2556.7	3378.2	4263.6	5198.9
67.5°	552.2	557.6	570.6	585.8	635.3	739.8	932.0	1295.8	1971.7	2895.3	3989.8
70°	477.4	477.4	471.4	469.0	475.2	489.7	519.4	604.1	832.1	1374.4	2301.2
72.5°	437.0	432.4	421.8	413.4	411.9	411.9	418.0	430.9	467.6	559.9	900.8
75°	402.7	389.8	375.2	365.3	361.6	357.7	356.9	359.2	366.9	381.4	430.2
77.5°	360.8	344.1	327.3	317.3	312.7	307.4	302.8	297.5	293.7	298.2	319.5
80°	310.5	291.4	278.5	272.2	267.8	260.1	250.2	241.0	232.7	231.1	244.1
82.5°	250.2	228.1	228.8	231.1	222.7	212.0	201.4	191.5	177.0	169.3	177.0
85°	202.1	190.7	185.3	199.9	187.7	171.7	154.9	137.4	114.4	96.1	104.6
87.5°	78.5	78.5	117.5	180.7	162.5	132.7	113.6	96.8	60.2	46.5	47.3
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°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	1793.1	1794.8	1793.9	1793.1	1793.1	1792.4	1793.1	1793.1
5°	1806.9	1810.8	1810.8	1812.2	1812.2	1813.0	1813.8	1813.0
7.5°	1827.5	1834.3	1838.9	1844.3	1845.1	1845.7	1847.4	1845.7
10°	1848.2	1861.8	1871.8	1881.7	1886.3	1887.8	1889.2	1889.2
12.5°	1874.0	1893.1	1910.7	1928.2	1936.6	1941.1	1941.1	1944.2
15°	1916.8	1935.8	1956.4	1980.0	1994.5	2002.2	2004.5	2004.5
17.5°	1977.0	1993.8	2011.3	2034.2	2052.4	2062.4	2064.8	2063.9
20°	2047.1	2063.1	2073.1	2087.7	2103.7	2115.1	2118.2	2118.2
22.5°	2127.2	2136.3	2138.0	2142.5	2155.6	2170.8	2177.6	2179.1
25°	2215.7	2218.1	2211.9	2211.9	2220.3	2234.9	2241.7	2242.3
27.5°	2330.2	2318.7	2303.4	2298.1	2303.4	2320.2	2328.6	2331.7
30°	2472.8	2445.4	2410.2	2391.2	2388.1	2410.2	2425.6	2427.8
32.5°	2635.9	2596.3	2549.7	2510.9	2501.1	2514.7	2533.0	2532.3
35°	2829.8	2782.5	2725.9	2676.4	2653.6	2667.2	2693.2	2696.3
37.5°	3053.2	2991.4	2926.6	2864.1	2828.3	2832.0	2859.5	2868.6
40°	3302.7	3222.6	3141.0	3057.0	3005.9	2995.9	3029.5	3035.0
42.5°	3569.5	3466.6	3363.7	3259.9	3194.4	3179.1	3218.0	3215.8
45°	3854.1	3722.8	3602.5	3487.9	3410.1	3387.2	3419.4	3419.4
47.5°	4160.0	3998.3	3854.8	3725.2	3640.6	3607.8	3638.2	3640.6
50°	4484.1	4312.6	4143.9	3999.8	3898.4	3856.3	3896.0	3902.1
52.5°	4806.7	4639.7	4469.6	4304.9	4182.1	4130.9	4176.7	4196.5
55°	5134.0	4970.0	4807.5	4646.6	4500.9	4440.6	4489.5	4514.6
57.5°	5479.5	5327.7	5172.9	5010.3	4870.0	4776.3	4828.1	4861.6
60°	5884.4	5754.8	5593.8	5414.7	5272.8	5177.4	5207.1	5236.8
62.5°	6204.9	6255.2	6118.6	5911.1	5728.9	5606.9	5635.8	5667.0
65°	6050.1	6566.4	6687.6	6477.9	6225.4	6035.5	6023.3	6039.3
67.5°	5056.9	6060.0	6791.4	6991.1	6780.0	6516.0	6467.2	6490.9
70°	3382.7	4632.1	5922.6	6883.7	7139.2	7037.1	6989.0	7003.5
72.5°	1624.7	2697.8	4018.1	5295.7	6073.6	6430.5	6545.1	6600.7
75°	594.1	1070.9	1936.6	2918.2	3523.1	4078.3	4440.6	4588.6
77.5°	358.5	432.4	618.6	931.4	1054.9	1180.7	1132.0	1156.3
80°	265.4	299.8	339.4	381.4	395.2	395.2	379.9	367.6
82.5°	186.0	208.2	227.4	250.2	256.2	244.9	201.4	160.2
85°	119.7	129.6	138.1	152.5	148.7	141.8	95.3	84.7
87.5°	54.9	62.5	65.5	72.5	69.3	66.4	47.3	39.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)