

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: P193533

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193533
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-05-LED-E1-RW-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16349 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

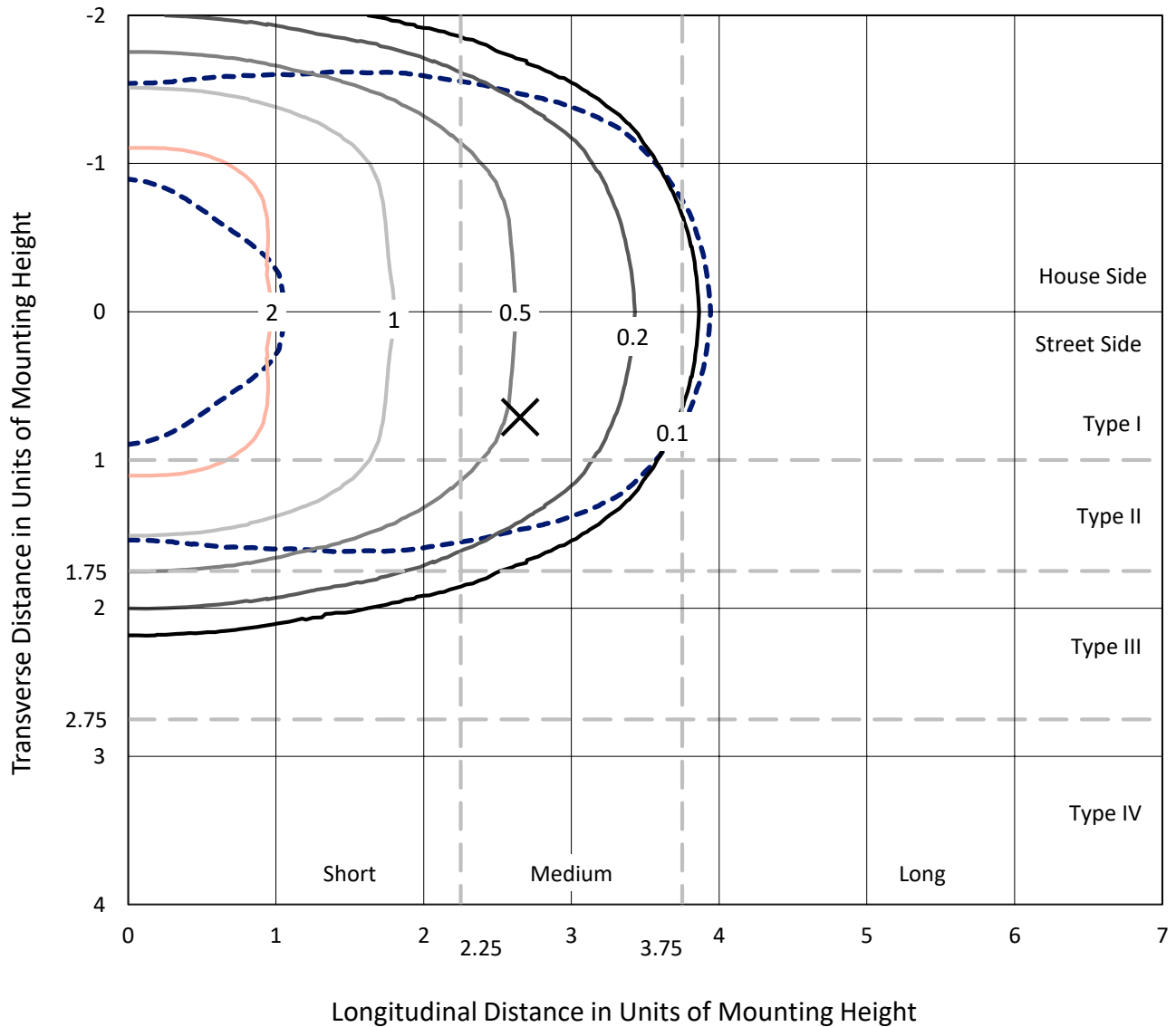
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

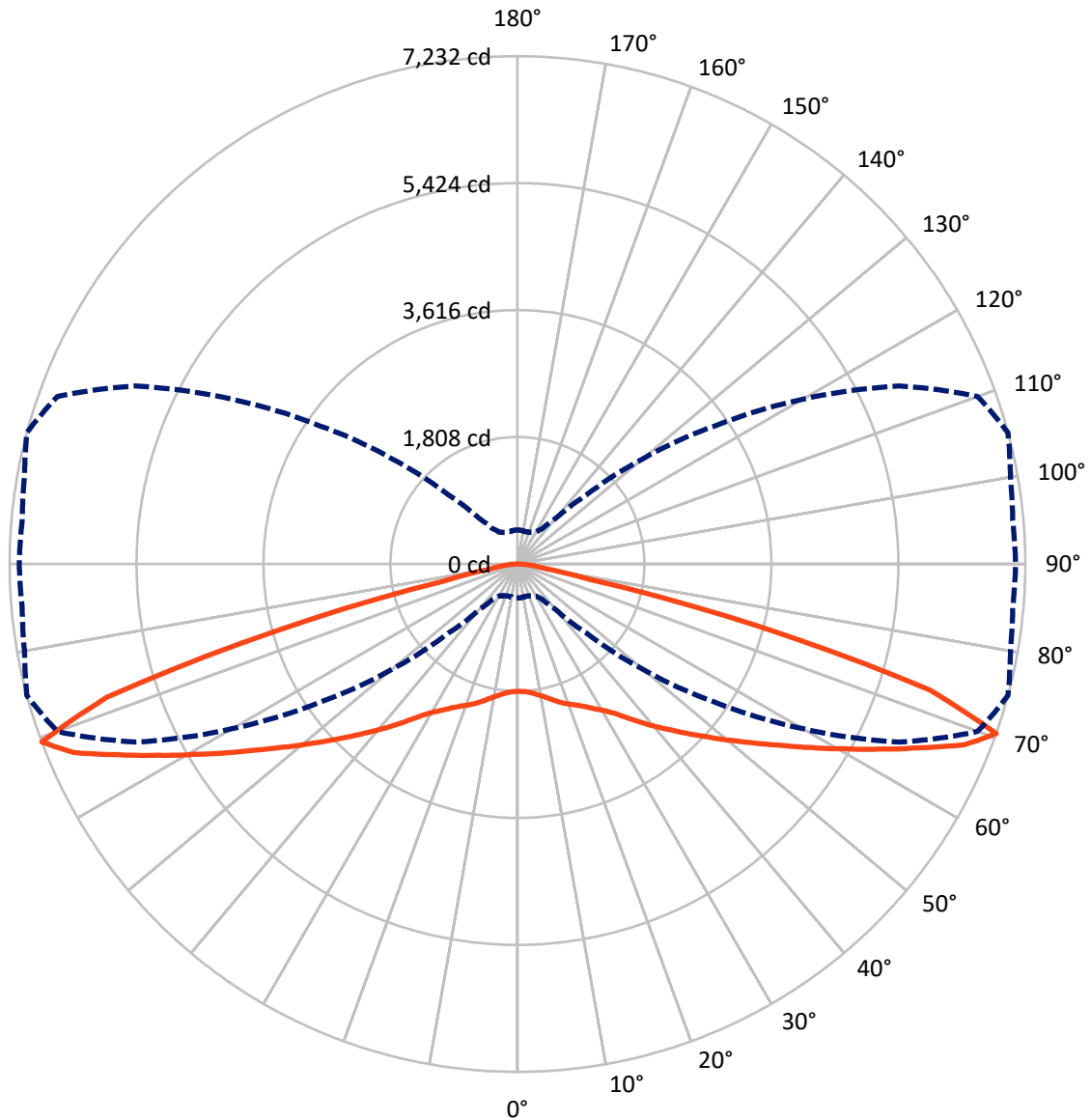
× Max cd
 - - - 1/2 Max cd



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	8174.5	0.0	8174.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8174.5	0.0	8174.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16349.0	0.0	16349.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.1
10°-20°	540.4	3.3
20°-30°	1017.2	6.2
30°-40°	1801.2	11.0
40°-50°	3012.1	18.4
50°-60°	4197.4	25.7
60°-70°	3892.4	23.8
70°-80°	1551.3	9.5
80°-90°	163.1	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°	16349.0	100.0
0°-180°	16349.0	100.0



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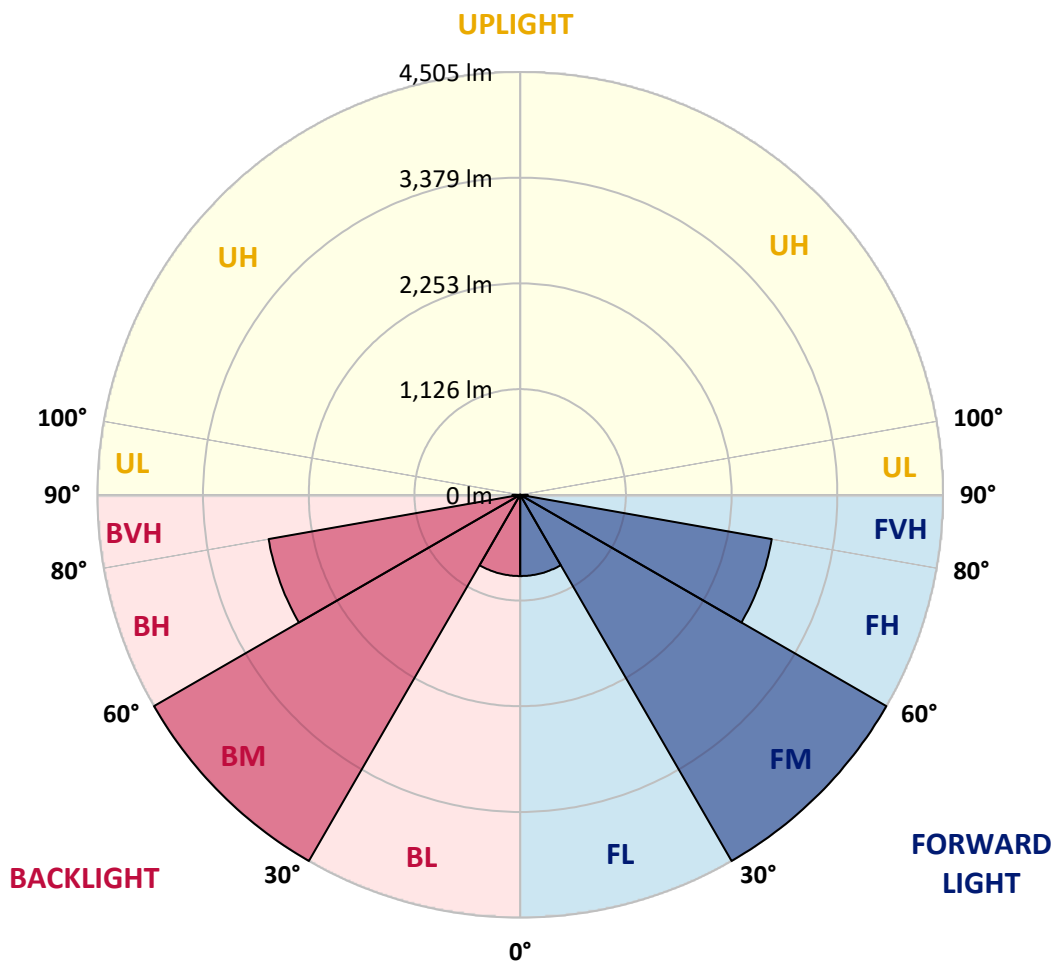
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	865.7	5.3			
FM	(30°-60°)	4505.4	27.6			
FH	(60°-80°)	2721.8	16.6			G2/5000
FVH	(80°-90°)	81.5	0.5			G1/100
BL	(0°-30°)	865.7	5.3	B2/1000		
BM	(30°-60°)	4505.4	27.6	B3/5000		
BH	(60°-80°)	2721.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	81.5	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°	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5
2.5°	1810.4	1808.8	1810.4	1809.6	1811.2	1811.2	1812.7	1815.8	1815.8	1818.1	1817.3
5°	1792.6	1791.8	1794.2	1796.5	1798.8	1803.4	1808.1	1815.0	1820.4	1824.3	1828.2
7.5°	1757.9	1757.9	1760.9	1766.4	1771.8	1781.8	1792.6	1806.5	1820.4	1832.0	1842.1
10°	1729.3	1730.8	1734.7	1743.9	1753.2	1768.7	1783.4	1803.4	1822.8	1842.1	1857.5
12.5°	1712.3	1714.6	1721.5	1735.4	1750.9	1771.8	1794.2	1819.7	1841.3	1864.5	1879.9
15°	1717.7	1719.2	1729.3	1746.3	1766.4	1792.6	1822.8	1852.9	1878.4	1903.1	1924.0
17.5°	1747.8	1750.1	1761.7	1781.0	1801.9	1832.8	1865.3	1899.3	1930.9	1958.7	1984.2
20°	1801.9	1804.2	1818.9	1839.8	1864.5	1896.2	1928.6	1964.2	1999.7	2029.1	2057.7
22.5°	1878.4	1882.3	1896.2	1917.0	1944.8	1978.8	2017.5	2055.3	2089.3	2116.4	2141.9
25°	1978.8	1987.3	2000.5	2023.7	2053.0	2083.9	2125.6	2164.3	2196.7	2222.2	2240.8
27.5°	2121.0	2132.6	2142.6	2165.1	2193.6	2223.0	2264.7	2298.7	2329.6	2354.4	2368.3
30°	2309.5	2321.1	2331.2	2352.8	2379.1	2406.9	2446.3	2476.4	2495.8	2515.1	2514.3
32.5°	2538.3	2550.6	2554.5	2577.7	2604.7	2634.8	2670.4	2687.4	2702.8	2705.2	2691.3
35°	2794.0	2800.2	2815.7	2846.6	2877.5	2902.2	2936.2	2944.7	2944.7	2933.1	2902.2
37.5°	3074.5	3078.4	3100.0	3134.8	3166.5	3192.0	3215.1	3232.1	3223.6	3198.9	3147.1
40°	3382.0	3389.0	3419.9	3450.8	3486.3	3510.3	3535.0	3538.1	3529.6	3493.3	3423.0
42.5°	3675.6	3681.8	3712.7	3761.4	3807.8	3841.0	3864.2	3868.8	3841.8	3808.6	3721.2
45°	3928.3	3944.5	3984.7	4041.9	4109.1	4156.3	4187.9	4201.1	4177.1	4133.8	4032.6
47.5°	4128.4	4144.7	4201.8	4269.8	4353.3	4429.8	4482.3	4510.1	4504.0	4471.5	4361.0
50°	4275.3	4290.7	4352.5	4436.0	4533.3	4628.4	4718.0	4784.4	4807.6	4792.9	4691.7
52.5°	4292.2	4317.7	4390.4	4502.4	4629.1	4758.9	4886.4	4999.3	5075.7	5087.3	5012.4
55°	4055.0	4080.5	4181.0	4347.1	4535.6	4747.4	4951.3	5141.4	5292.1	5369.4	5330.0
57.5°	3495.6	3541.2	3647.1	3841.8	4119.2	4436.0	4761.3	5098.9	5405.7	5610.4	5649.9
60°	2678.9	2733.0	2839.6	3046.7	3355.8	3733.6	4167.8	4667.0	5208.7	5669.2	5944.2
62.5°	1718.4	1769.4	1881.5	2061.5	2313.4	2722.9	3188.9	3781.5	4509.4	5236.5	5891.7
65°	883.2	911.0	969.7	1078.7	1274.9	1580.9	1998.9	2590.0	3422.2	4319.3	5266.6
67.5°	559.4	564.8	578.0	593.4	643.6	749.5	944.2	1312.8	1997.4	2933.1	4041.9
70°	483.7	483.7	477.5	475.2	481.4	496.1	526.2	612.0	843.0	1392.4	2331.2
72.5°	442.7	438.1	427.3	418.8	417.2	417.2	423.4	436.6	473.7	567.1	912.5
75°	408.0	394.8	380.2	370.1	366.3	362.4	361.6	363.9	371.7	386.3	435.8
77.5°	365.5	348.5	331.5	321.4	316.8	311.4	306.8	301.3	297.5	302.1	323.8
80°	314.5	295.2	282.0	275.8	271.2	263.5	253.4	244.2	235.7	234.1	247.3
82.5°	253.4	231.0	231.8	234.1	225.6	214.8	204.0	193.9	179.3	171.5	179.3
85°	204.8	193.2	187.8	202.4	190.1	173.9	156.9	139.1	115.9	97.4	105.9
87.5°	79.6	79.6	119.0	183.1	164.6	134.4	115.1	98.1	61.0	47.1	47.9
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°	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5	1813.5
2.5°	1816.6	1818.1	1817.3	1816.6	1816.6	1815.8	1816.6	1816.6
5°	1830.5	1834.3	1834.3	1835.9	1835.9	1836.7	1837.4	1836.7
7.5°	1851.3	1858.3	1862.9	1868.3	1869.1	1869.9	1871.4	1869.9
10°	1872.2	1886.1	1896.2	1906.2	1910.8	1912.4	1913.9	1913.9
12.5°	1898.5	1917.8	1935.6	1953.3	1961.8	1966.5	1966.5	1969.6
15°	1941.8	1961.1	1981.9	2005.9	2020.6	2028.3	2030.6	2030.6
17.5°	2002.8	2019.8	2037.6	2060.7	2079.3	2089.3	2091.7	2090.9
20°	2073.9	2090.1	2100.2	2114.8	2131.1	2142.6	2145.7	2145.7
22.5°	2155.0	2164.3	2165.8	2170.5	2183.6	2199.1	2206.0	2207.6
25°	2244.6	2247.0	2240.8	2240.8	2249.3	2264.0	2270.9	2271.7
27.5°	2360.5	2349.0	2333.5	2328.1	2333.5	2350.5	2359.0	2362.1
30°	2505.0	2477.2	2441.7	2422.4	2419.3	2441.7	2457.1	2459.4
32.5°	2670.4	2630.2	2583.1	2543.7	2533.6	2547.5	2566.1	2565.3
35°	2866.7	2818.7	2761.6	2711.3	2688.2	2702.1	2728.3	2731.4
37.5°	3093.0	3030.5	2964.8	2901.4	2865.1	2869.0	2896.8	2906.1
40°	3345.7	3264.6	3181.9	3096.9	3045.1	3035.1	3069.1	3074.5
42.5°	3616.2	3511.8	3407.5	3302.4	3236.0	3220.5	3259.9	3257.6
45°	3904.4	3771.5	3649.4	3533.5	3454.7	3431.5	3463.9	3463.9
47.5°	4214.2	4050.4	3905.1	3773.8	3688.0	3654.8	3685.7	3688.0
50°	4542.6	4368.7	4198.0	4051.9	3949.2	3906.7	3946.9	3953.0
52.5°	4869.4	4700.2	4527.9	4361.0	4236.6	4184.8	4231.2	4251.3
55°	5200.9	5034.8	4870.2	4707.2	4559.6	4498.6	4548.0	4573.5
57.5°	5550.9	5397.2	5240.3	5075.7	4933.6	4838.5	4891.1	4925.1
60°	5961.2	5829.9	5666.9	5485.3	5341.6	5245.0	5275.1	5305.2
62.5°	6285.8	6336.8	6198.5	5988.3	5803.6	5680.0	5709.3	5741.0
65°	6128.9	6652.0	6774.9	6562.4	6306.6	6114.2	6101.9	6118.1
67.5°	5122.9	6139.0	6880.0	7082.4	6868.4	6601.0	6551.6	6575.5
70°	3426.8	4692.5	5999.9	6973.5	7232.3	7128.8	7080.1	7094.8
72.5°	1645.8	2733.0	4070.5	5364.7	6152.9	6514.5	6630.4	6686.8
75°	601.9	1084.8	1961.8	2956.3	3569.0	4131.5	4498.6	4648.5
77.5°	363.2	438.1	626.6	943.4	1068.6	1196.1	1146.7	1171.4
80°	268.9	303.7	343.8	386.3	400.2	400.2	384.8	372.4
82.5°	188.5	210.9	230.3	253.4	259.6	248.0	204.0	162.3
85°	121.3	131.4	139.9	154.5	150.7	143.7	96.6	85.8
87.5°	55.6	63.4	66.5	73.4	70.3	67.2	47.9	40.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)