

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: P193551

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193551
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15158 lumens
Efficiency: N/A
Efficacy: 91.3 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

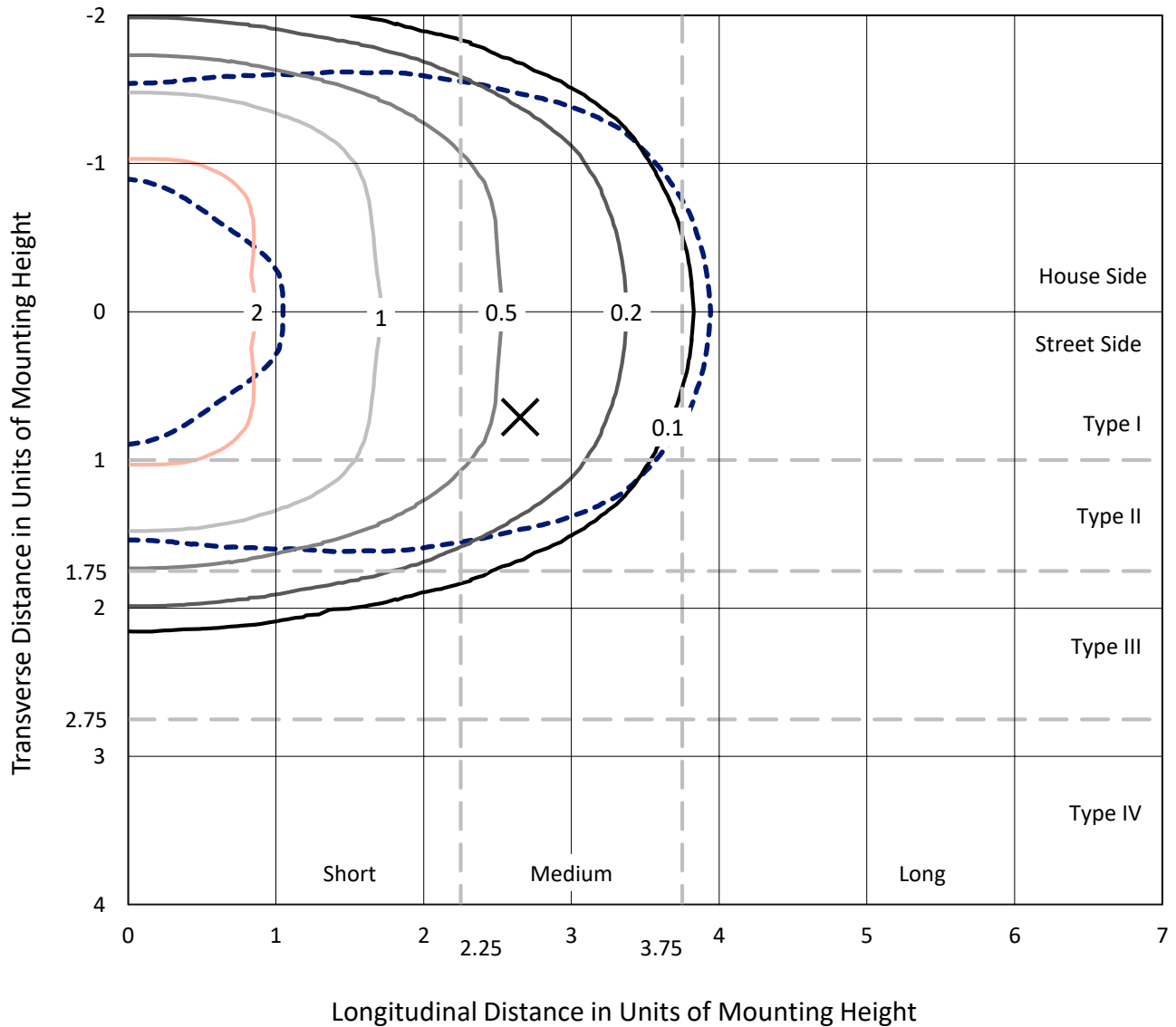
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

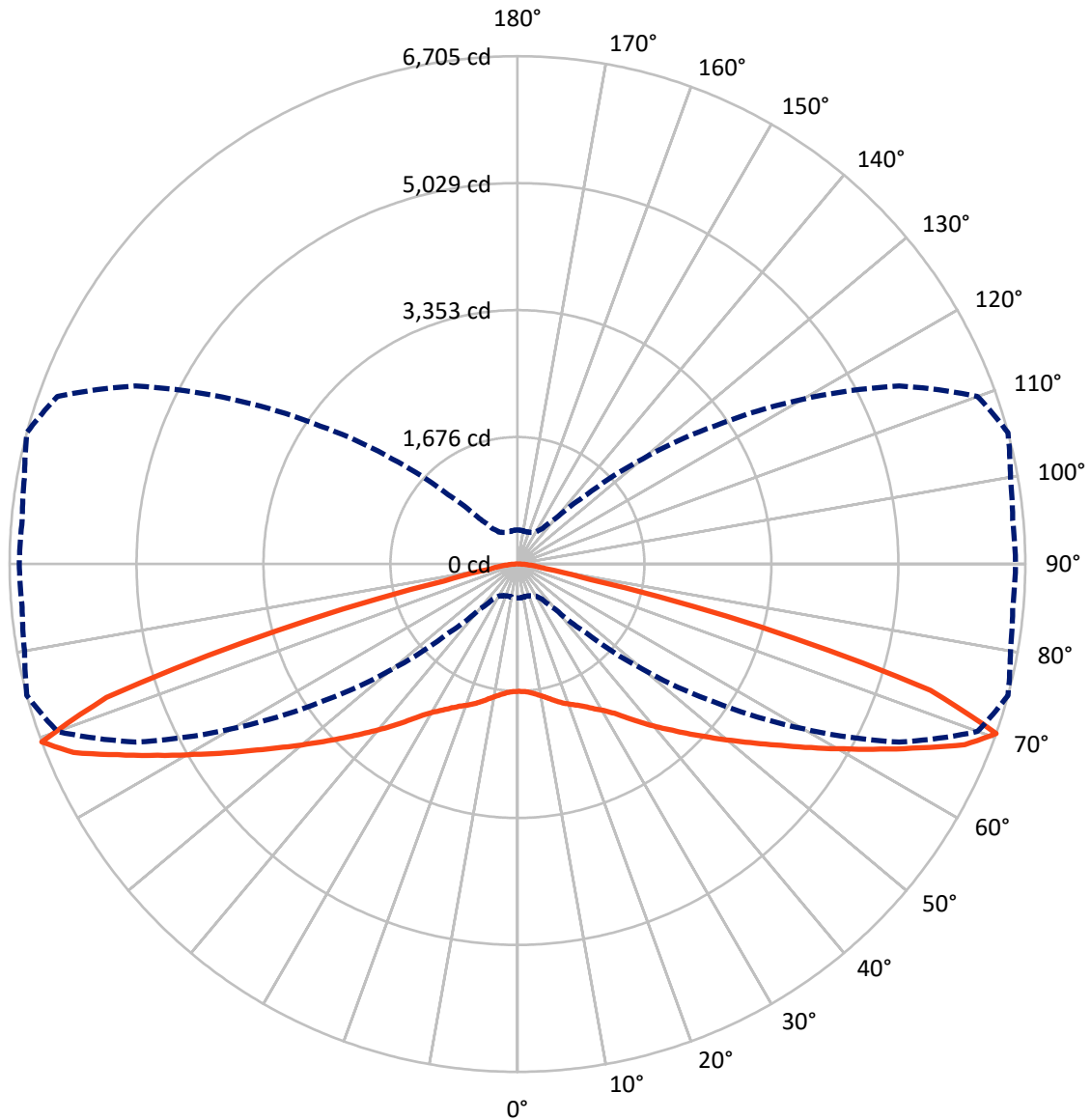
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	7579.0	0.0	7579.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7579.0	0.0	7579.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15158.0	0.0	15158.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	1.1
10°-20°	501.1	3.3
20°-30°	943.0	6.2
30°-40°	1670.0	11.0
40°-50°	2792.7	18.4
50°-60°	3891.7	25.7
60°-70°	3608.9	23.8
70°-80°	1438.3	9.5
80°-90°	151.2	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°	15158.0	100.0
0°-180°	15158.0	100.0



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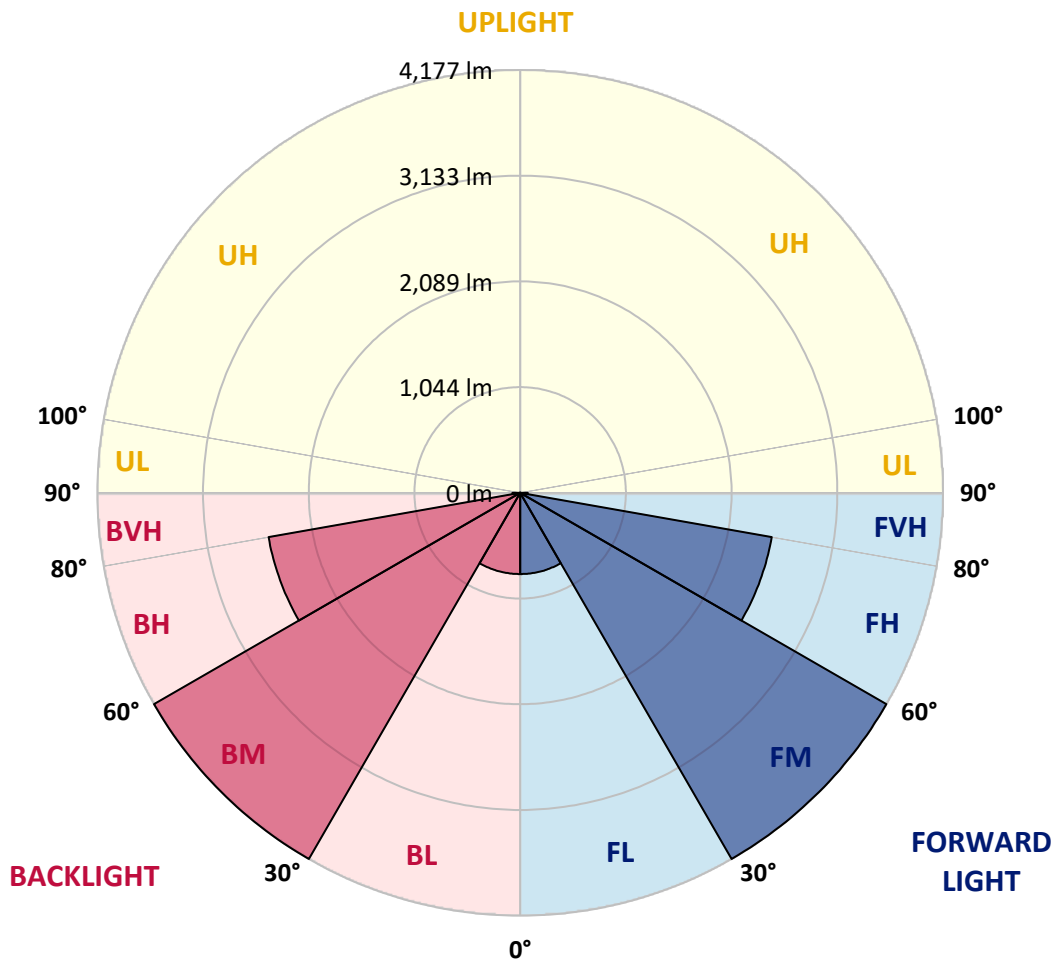
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	802.7	5.3			
FM	(30°-60°)	4177.2	27.6			
FH	(60°-80°)	2523.6	16.6			G2/5000
FVH	(80°-90°)	75.6	0.5			G1/100
BL	(0°-30°)	802.7	5.3	B2/1000		
BM	(30°-60°)	4177.2	27.6	B3/5000		
BH	(60°-80°)	2523.6	16.6	B4/5000		G4/5000
BVH	(80°-90°)	75.6	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°	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4
2.5°	1678.5	1677.1	1678.5	1677.8	1679.2	1679.2	1680.7	1683.5	1683.5	1685.7	1685.0
5°	1662.0	1661.3	1663.5	1665.6	1667.8	1672.1	1676.4	1682.8	1687.8	1691.4	1695.0
7.5°	1629.8	1629.8	1632.7	1637.7	1642.7	1652.0	1662.0	1674.9	1687.8	1698.6	1707.9
10°	1603.3	1604.7	1608.3	1616.9	1625.5	1639.8	1653.4	1672.1	1690.0	1707.9	1722.2
12.5°	1587.5	1589.7	1596.1	1609.0	1623.3	1642.7	1663.5	1687.1	1707.2	1728.7	1743.0
15°	1592.5	1594.0	1603.3	1619.0	1637.7	1662.0	1690.0	1717.9	1741.6	1764.5	1783.8
17.5°	1620.5	1622.6	1633.4	1651.3	1670.6	1699.3	1729.4	1760.9	1790.3	1816.1	1839.7
20°	1670.6	1672.8	1686.4	1705.7	1728.7	1758.0	1788.1	1821.1	1854.0	1881.2	1907.8
22.5°	1741.6	1745.1	1758.0	1777.4	1803.2	1834.7	1870.5	1905.6	1937.1	1962.2	1985.8
25°	1834.7	1842.6	1854.7	1876.2	1903.5	1932.1	1970.8	2006.6	2036.7	2060.3	2077.5
27.5°	1966.5	1977.2	1986.6	2007.3	2033.8	2061.1	2099.7	2131.3	2159.9	2182.9	2195.7
30°	2141.3	2152.0	2161.4	2181.4	2205.8	2231.6	2268.1	2296.0	2314.0	2331.9	2331.1
32.5°	2353.4	2364.8	2368.4	2389.9	2415.0	2442.9	2475.9	2491.6	2505.9	2508.1	2495.2
35°	2590.5	2596.2	2610.5	2639.2	2667.8	2690.8	2722.3	2730.2	2730.2	2719.4	2690.8
37.5°	2850.5	2854.1	2874.2	2906.4	2935.8	2959.4	2980.9	2996.7	2988.8	2965.9	2917.9
40°	3135.7	3142.1	3170.8	3199.4	3232.4	3254.6	3277.5	3280.4	3272.5	3238.8	3173.6
42.5°	3407.9	3413.6	3442.3	3487.4	3530.4	3561.2	3582.7	3587.0	3561.9	3531.1	3450.2
45°	3642.1	3657.2	3694.4	3747.5	3809.8	3853.5	3882.9	3895.0	3872.8	3832.7	3738.9
47.5°	3827.7	3842.7	3895.7	3958.8	4036.2	4107.1	4155.8	4181.6	4175.9	4145.8	4043.3
50°	3963.8	3978.1	4035.4	4112.8	4203.1	4291.2	4374.3	4435.9	4457.4	4443.8	4349.9
52.5°	3979.6	4003.2	4070.5	4174.4	4291.9	4412.3	4530.5	4635.1	4706.0	4716.7	4647.2
55°	3759.6	3783.3	3876.4	4030.4	4205.2	4401.5	4590.6	4766.9	4906.6	4978.2	4941.7
57.5°	3241.0	3283.2	3381.4	3561.9	3819.1	4112.8	4414.4	4727.5	5011.9	5201.7	5238.3
60°	2483.7	2533.9	2632.7	2824.7	3111.3	3461.6	3864.2	4327.0	4829.2	5256.2	5511.2
62.5°	1593.3	1640.5	1744.4	1911.3	2144.9	2524.6	2956.6	3506.0	4180.9	4855.0	5462.5
65°	818.8	844.6	899.1	1000.1	1182.0	1465.7	1853.3	2401.4	3172.9	4004.6	4882.9
67.5°	518.7	523.7	535.9	550.2	596.8	694.9	875.4	1217.2	1851.9	2719.4	3747.5
70°	448.5	448.5	442.7	440.6	446.3	459.9	487.9	567.4	781.6	1290.9	2161.4
72.5°	410.5	406.2	396.2	388.3	386.9	386.9	392.6	404.8	439.1	525.8	846.1
75°	378.3	366.1	352.5	343.2	339.6	336.0	335.3	337.4	344.6	358.2	404.0
77.5°	338.9	323.1	307.3	298.0	293.7	288.7	284.4	279.4	275.8	280.1	300.2
80°	291.6	273.7	261.5	255.8	251.5	244.3	235.0	226.4	218.5	217.1	229.2
82.5°	235.0	214.2	214.9	217.1	209.2	199.2	189.1	179.8	166.2	159.0	166.2
85°	189.8	179.1	174.1	187.7	176.2	161.2	145.4	129.0	107.5	90.3	98.1
87.5°	73.8	73.8	110.3	169.8	152.6	124.7	106.7	91.0	56.6	43.7	44.4
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°	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4
2.5°	1684.2	1685.7	1685.0	1684.2	1684.2	1683.5	1684.2	1684.2
5°	1697.1	1700.7	1700.7	1702.2	1702.2	1702.9	1703.6	1702.9
7.5°	1716.5	1722.9	1727.2	1732.2	1733.0	1733.7	1735.1	1733.7
10°	1735.8	1748.7	1758.0	1767.3	1771.6	1773.1	1774.5	1774.5
12.5°	1760.2	1778.1	1794.6	1811.0	1818.9	1823.2	1823.2	1826.1
15°	1800.3	1818.2	1837.5	1859.8	1873.4	1880.5	1882.7	1882.7
17.5°	1856.9	1872.7	1889.1	1910.6	1927.8	1937.1	1939.3	1938.6
20°	1922.8	1937.8	1947.2	1960.8	1975.8	1986.6	1989.4	1989.4
22.5°	1998.0	2006.6	2008.1	2012.3	2024.5	2038.9	2045.3	2046.7
25°	2081.1	2083.3	2077.5	2077.5	2085.4	2099.0	2105.5	2106.2
27.5°	2188.6	2177.8	2163.5	2158.5	2163.5	2179.3	2187.1	2190.0
30°	2322.5	2296.8	2263.8	2245.9	2243.0	2263.8	2278.1	2280.3
32.5°	2475.9	2438.6	2394.9	2358.4	2349.1	2361.9	2379.1	2378.4
35°	2657.8	2613.4	2560.4	2513.8	2492.3	2505.2	2529.6	2532.5
37.5°	2867.7	2809.7	2748.8	2690.1	2656.4	2660.0	2685.8	2694.4
40°	3102.0	3026.8	2950.1	2871.3	2823.3	2814.0	2845.5	2850.5
42.5°	3352.7	3256.0	3159.3	3061.9	3000.3	2985.9	3022.5	3020.3
45°	3619.9	3496.7	3383.5	3276.1	3203.0	3181.5	3211.6	3211.6
47.5°	3907.2	3755.3	3620.7	3498.9	3419.3	3388.5	3417.2	3419.3
50°	4211.7	4050.5	3892.2	3756.8	3661.5	3622.1	3659.3	3665.1
52.5°	4514.7	4357.8	4198.1	4043.3	3928.0	3880.0	3923.0	3941.6
55°	4822.0	4668.0	4515.4	4364.3	4227.4	4170.8	4216.7	4240.3
57.5°	5146.6	5004.0	4858.6	4706.0	4574.2	4486.1	4534.8	4566.3
60°	5527.0	5405.2	5254.0	5085.7	4952.4	4862.9	4890.8	4918.8
62.5°	5827.9	5875.1	5746.9	5552.0	5380.8	5266.2	5293.4	5322.8
65°	5682.4	6167.4	6281.3	6084.3	5847.2	5668.8	5657.4	5672.4
67.5°	4749.7	5691.7	6378.8	6566.5	6368.0	6120.1	6074.3	6096.5
70°	3177.2	4350.7	5562.8	6465.5	6705.4	6609.4	6564.3	6577.9
72.5°	1525.9	2533.9	3774.0	4973.9	5704.6	6039.9	6147.4	6199.7
75°	558.1	1005.8	1818.9	2740.9	3309.0	3830.6	4170.8	4309.8
77.5°	336.7	406.2	581.0	874.7	990.8	1109.0	1063.1	1086.1
80°	249.3	281.5	318.8	358.2	371.1	371.1	356.8	345.3
82.5°	174.8	195.6	213.5	235.0	240.7	230.0	189.1	150.4
85°	112.5	121.8	129.7	143.3	139.7	133.2	89.5	79.5
87.5°	51.6	58.7	61.6	68.1	65.2	62.3	44.4	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)