

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: P300547

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300547
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: GLNA-AF-03-LED-E1-RW-7027
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16084.2 lumens
Efficiency: N/A
Efficacy: 96.9 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

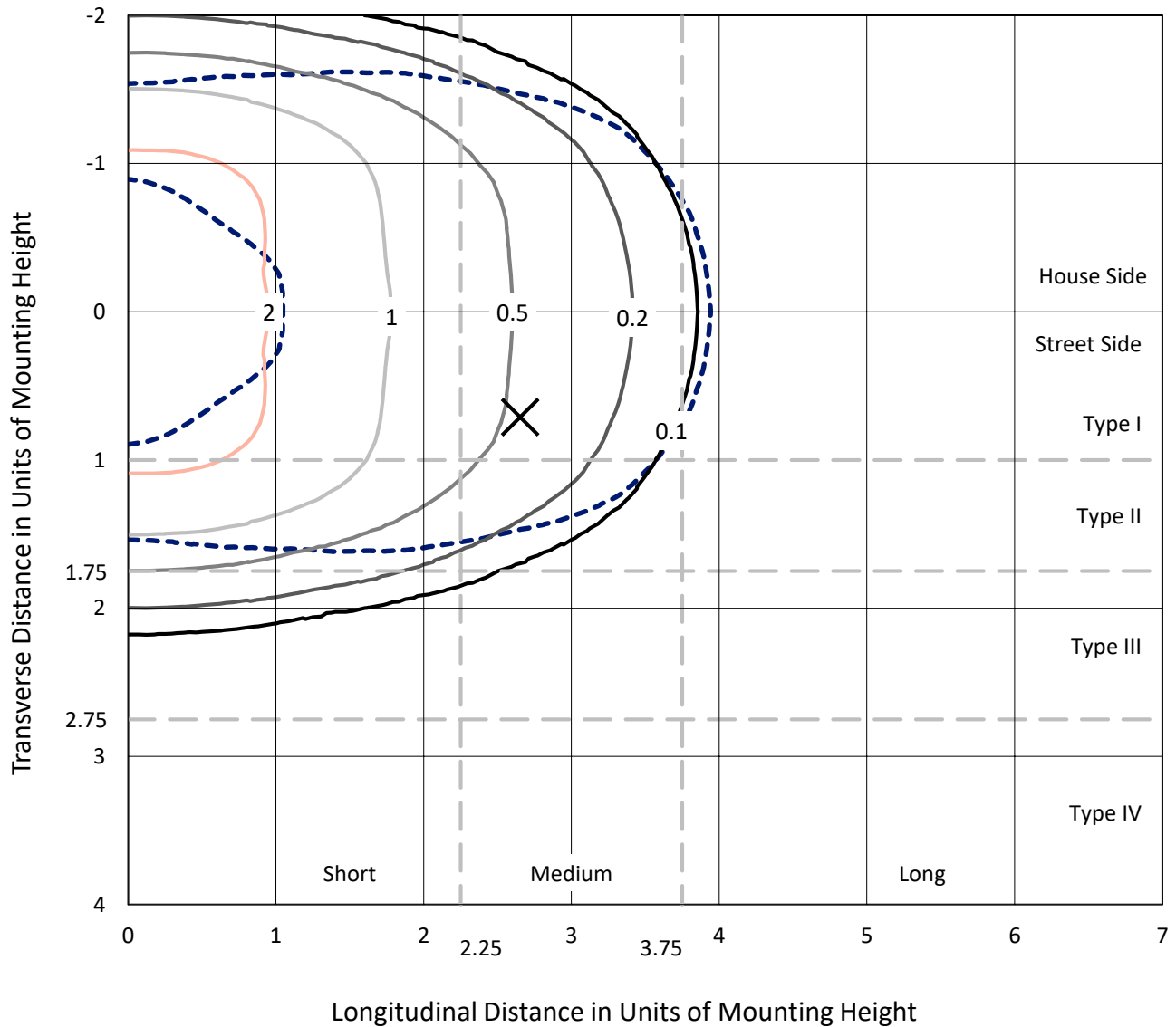
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

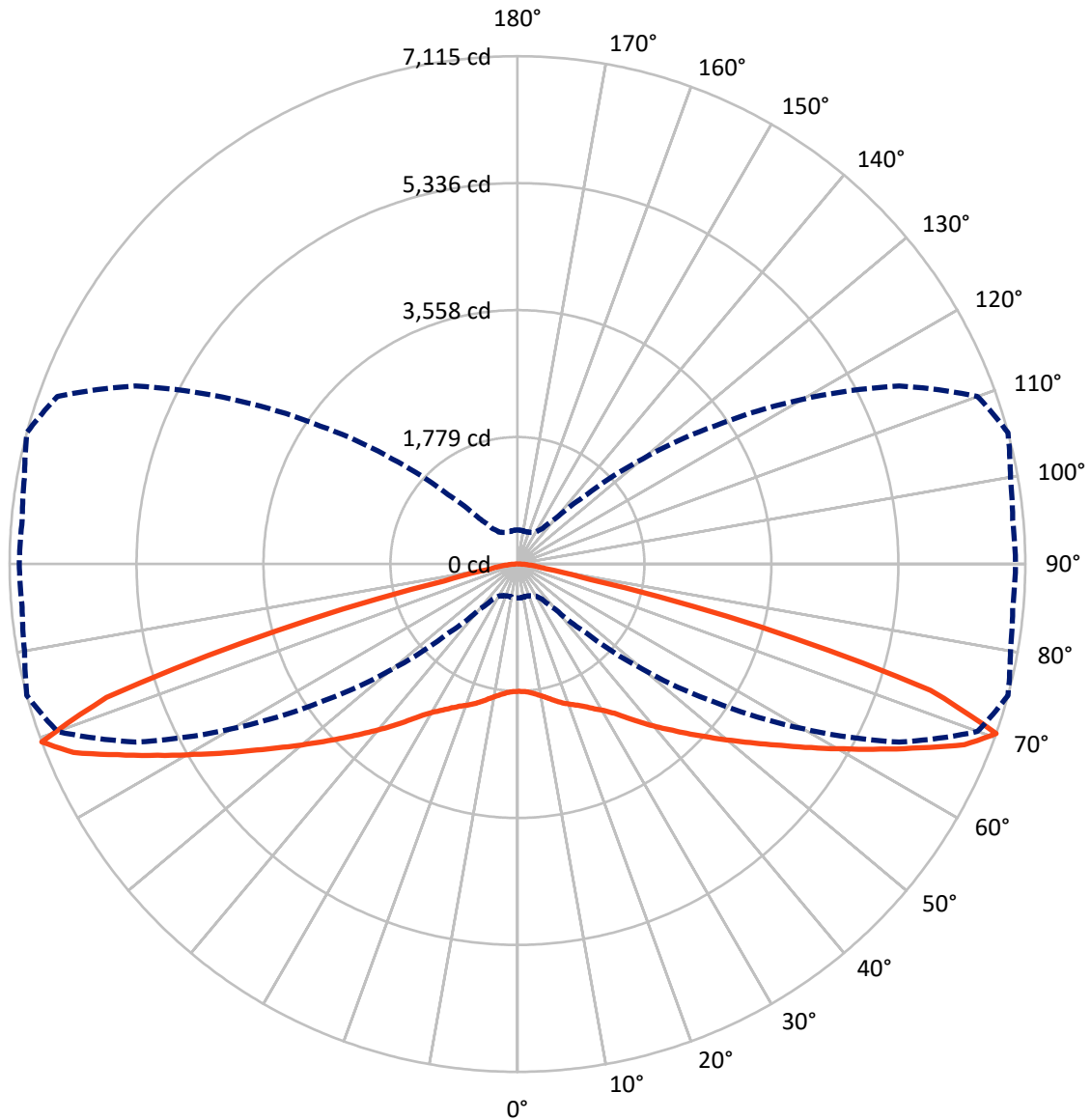
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	8042.1	0.0	8042.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8042.1	0.0	8042.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	16084.2	0.0	16084.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	1.1
10°-20°	531.7	3.3
20°-30°	1000.7	6.2
30°-40°	1772.0	11.0
40°-50°	2963.4	18.4
50°-60°	4129.4	25.7
60°-70°	3829.4	23.8
70°-80°	1526.1	9.5
80°-90°	160.4	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°	16084.2	100.0
0°-180°	16084.2	100.0

Coefficient of Utilization



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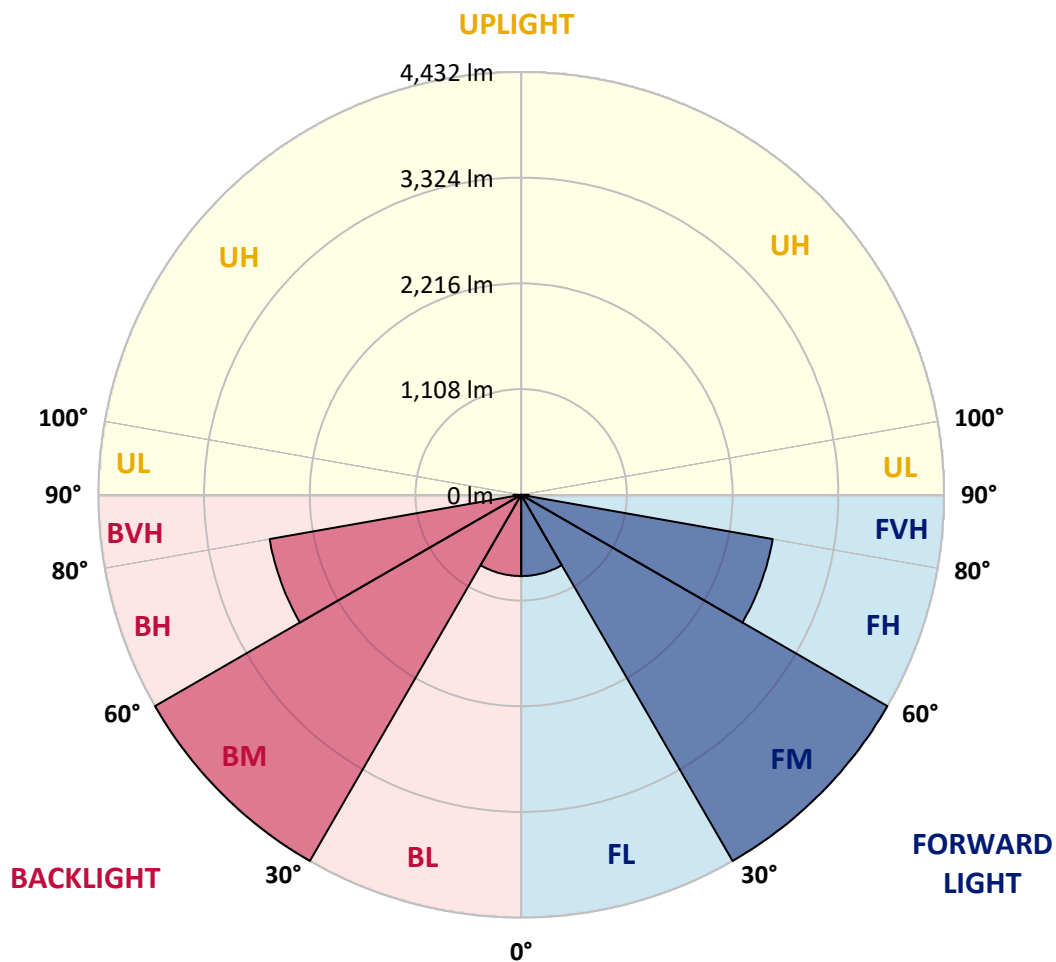
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.7	5.3			
FM	(30°-60°)	4432.4	27.6			
FH	(60°-80°)	2677.8	16.6			G2/5000
FVH	(80°-90°)	80.2	0.5			G1/100
BL	(0°-30°)	851.7	5.3	B2/1000		
BM	(30°-60°)	4432.4	27.6	B3/5000		
BH	(60°-80°)	2677.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	80.2	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°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1781.1	1779.6	1781.1	1780.3	1781.8	1781.8	1783.4	1786.4	1786.4	1788.7	1787.9
5°	1763.6	1762.8	1765.1	1767.4	1769.7	1774.2	1778.8	1785.6	1791.0	1794.8	1798.6
7.5°	1729.4	1729.4	1732.4	1737.7	1743.1	1752.9	1763.6	1777.3	1791.0	1802.4	1812.2
10°	1701.3	1702.8	1706.6	1715.7	1724.8	1740.0	1754.5	1774.2	1793.2	1812.2	1827.4
12.5°	1684.5	1686.8	1693.7	1707.3	1722.5	1743.1	1765.1	1790.2	1811.5	1834.3	1849.5
15°	1689.9	1691.4	1701.3	1718.0	1737.7	1763.6	1793.2	1822.9	1848.0	1872.3	1892.8
17.5°	1719.5	1721.8	1733.2	1752.2	1772.7	1803.1	1835.0	1868.5	1899.7	1927.0	1952.1
20°	1772.7	1775.0	1789.4	1810.0	1834.3	1865.4	1897.4	1932.3	1967.3	1996.2	2024.3
22.5°	1848.0	1851.8	1865.4	1886.0	1913.3	1946.8	1984.8	2022.0	2055.5	2082.1	2107.2
25°	1946.8	1955.1	1968.1	1990.9	2019.8	2050.2	2091.2	2129.2	2161.2	2186.2	2204.5
27.5°	2086.7	2098.1	2107.9	2130.0	2158.1	2187.0	2228.0	2261.5	2291.9	2316.2	2329.9
30°	2272.1	2283.5	2293.4	2314.7	2340.6	2367.9	2406.7	2436.3	2455.3	2474.3	2473.6
32.5°	2497.1	2509.3	2513.1	2535.9	2562.5	2592.2	2627.1	2643.9	2659.1	2661.3	2647.7
35°	2748.8	2754.8	2770.0	2800.5	2830.9	2855.2	2888.6	2897.0	2897.0	2885.6	2855.2
37.5°	3024.7	3028.5	3049.8	3084.0	3115.2	3140.2	3163.1	3179.8	3171.4	3147.1	3096.2
40°	3327.3	3334.1	3364.5	3394.9	3429.9	3453.4	3477.8	3480.8	3472.4	3436.7	3367.5
42.5°	3616.1	3622.2	3652.6	3700.5	3746.1	3778.8	3801.6	3806.2	3779.5	3746.9	3661.0
45°	3864.7	3880.7	3920.2	3976.4	4042.6	4088.9	4120.1	4133.0	4109.5	4066.9	3967.3
47.5°	4061.6	4077.5	4133.8	4200.7	4282.8	4358.0	4409.7	4437.1	4431.0	4399.1	4290.4
50°	4206.0	4221.2	4282.0	4364.1	4459.9	4553.4	4641.6	4707.0	4729.8	4715.3	4615.7
52.5°	4222.7	4247.8	4319.3	4429.5	4554.2	4681.9	4807.3	4918.3	4993.5	5004.9	4931.2
55°	3989.4	4014.4	4113.3	4276.7	4462.2	4670.5	4871.1	5058.2	5206.4	5282.4	5243.6
57.5°	3439.0	3483.8	3588.0	3779.5	4052.4	4364.1	4684.1	5016.3	5318.1	5519.6	5558.3
60°	2635.5	2688.7	2793.6	2997.3	3301.4	3673.1	4100.3	4591.4	5124.3	5577.3	5848.0
62.5°	1690.6	1740.8	1851.0	2028.1	2275.9	2678.8	3137.2	3720.3	4436.3	5151.7	5796.3
65°	868.9	896.2	954.0	1061.2	1254.3	1555.3	1966.6	2548.1	3366.8	4249.3	5181.3
67.5°	550.4	555.7	568.6	583.8	633.2	737.4	928.9	1291.5	1965.0	2885.6	3976.4
70°	475.9	475.9	469.8	467.5	473.6	488.0	517.7	602.1	829.3	1369.8	2293.4
72.5°	435.6	431.0	420.4	412.0	410.5	410.5	416.6	429.5	466.0	558.0	897.8
75°	401.4	388.4	374.0	364.1	360.3	356.5	355.8	358.0	365.6	380.1	428.7
77.5°	359.6	342.8	326.1	316.2	311.7	306.3	301.8	296.5	292.7	297.2	318.5
80°	309.4	290.4	277.5	271.4	266.8	259.2	249.3	240.2	231.9	230.3	243.3
82.5°	249.3	227.3	228.1	230.3	222.0	211.3	200.7	190.8	176.4	168.8	176.4
85°	201.4	190.0	184.7	199.2	187.0	171.0	154.3	136.8	114.0	95.8	104.1
87.5°	78.3	78.3	117.1	180.2	161.9	132.3	113.3	96.5	60.1	46.4	47.1
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°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1787.2	1788.7	1787.9	1787.2	1787.2	1786.4	1787.2	1787.2
5°	1800.8	1804.6	1804.6	1806.2	1806.2	1806.9	1807.7	1806.9
7.5°	1821.4	1828.2	1832.8	1838.1	1838.8	1839.6	1841.1	1839.6
10°	1841.9	1855.6	1865.4	1875.3	1879.9	1881.4	1882.9	1882.9
12.5°	1867.7	1886.7	1904.2	1921.7	1930.1	1934.6	1934.6	1937.7
15°	1910.3	1929.3	1949.8	1973.4	1987.8	1995.4	1997.7	1997.7
17.5°	1970.4	1987.1	2004.6	2027.4	2045.6	2055.5	2057.8	2057.0
20°	2040.3	2056.3	2066.1	2080.6	2096.5	2107.9	2111.0	2111.0
22.5°	2120.1	2129.2	2130.7	2135.3	2148.2	2163.4	2170.3	2171.8
25°	2208.3	2210.6	2204.5	2204.5	2212.8	2227.3	2234.1	2234.9
27.5°	2322.3	2310.9	2295.7	2290.4	2295.7	2312.4	2320.8	2323.8
30°	2464.5	2437.1	2402.1	2383.1	2380.1	2402.1	2417.3	2419.6
32.5°	2627.1	2587.6	2541.2	2502.5	2492.6	2506.3	2524.5	2523.8
35°	2820.2	2773.1	2716.8	2667.4	2644.6	2658.3	2684.1	2687.2
37.5°	3042.9	2981.4	2916.8	2854.4	2818.7	2822.5	2849.9	2859.0
40°	3291.5	3211.7	3130.4	3046.7	2995.8	2985.9	3019.4	3024.7
42.5°	3557.6	3455.0	3352.3	3249.0	3183.6	3168.4	3207.1	3204.9
45°	3841.1	3710.4	3590.3	3476.2	3398.7	3375.9	3407.8	3407.8
47.5°	4146.0	3984.8	3841.9	3712.7	3628.3	3595.6	3626.0	3628.3
50°	4469.0	4298.0	4130.0	3986.3	3885.2	3843.4	3882.9	3889.0
52.5°	4790.6	4624.1	4454.6	4290.4	4168.0	4117.1	4162.7	4182.4
55°	5116.7	4953.2	4791.3	4630.9	4485.7	4425.7	4474.3	4499.4
57.5°	5461.0	5309.8	5155.5	4993.5	4853.7	4760.2	4811.9	4845.3
60°	5864.7	5735.5	5575.1	5396.4	5255.0	5160.0	5189.7	5219.3
62.5°	6184.0	6234.1	6098.1	5891.3	5709.6	5588.0	5616.9	5648.0
65°	6029.6	6544.3	6665.1	6456.1	6204.5	6015.2	6003.0	6019.0
67.5°	5039.9	6039.5	6768.5	6967.7	6757.1	6494.1	6445.5	6469.0
70°	3371.3	4616.5	5902.7	6860.5	7115.2	7013.3	6965.4	6979.9
72.5°	1619.2	2688.7	4004.6	5277.8	6053.2	6409.0	6523.0	6578.5
75°	592.2	1067.3	1930.1	2908.4	3511.2	4064.6	4425.7	4573.2
77.5°	357.3	431.0	616.5	928.2	1051.3	1176.7	1128.1	1152.4
80°	264.5	298.7	338.3	380.1	393.8	393.8	378.6	366.4
82.5°	185.5	207.5	226.5	249.3	255.4	244.0	200.7	159.6
85°	119.3	129.2	137.6	152.0	148.2	141.4	95.0	84.4
87.5°	54.7	62.3	65.4	72.2	69.2	66.1	47.1	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)