

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: P300611

Luminaire Tested: **GLNA-AF-03-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300611
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-7050-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14955.7 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

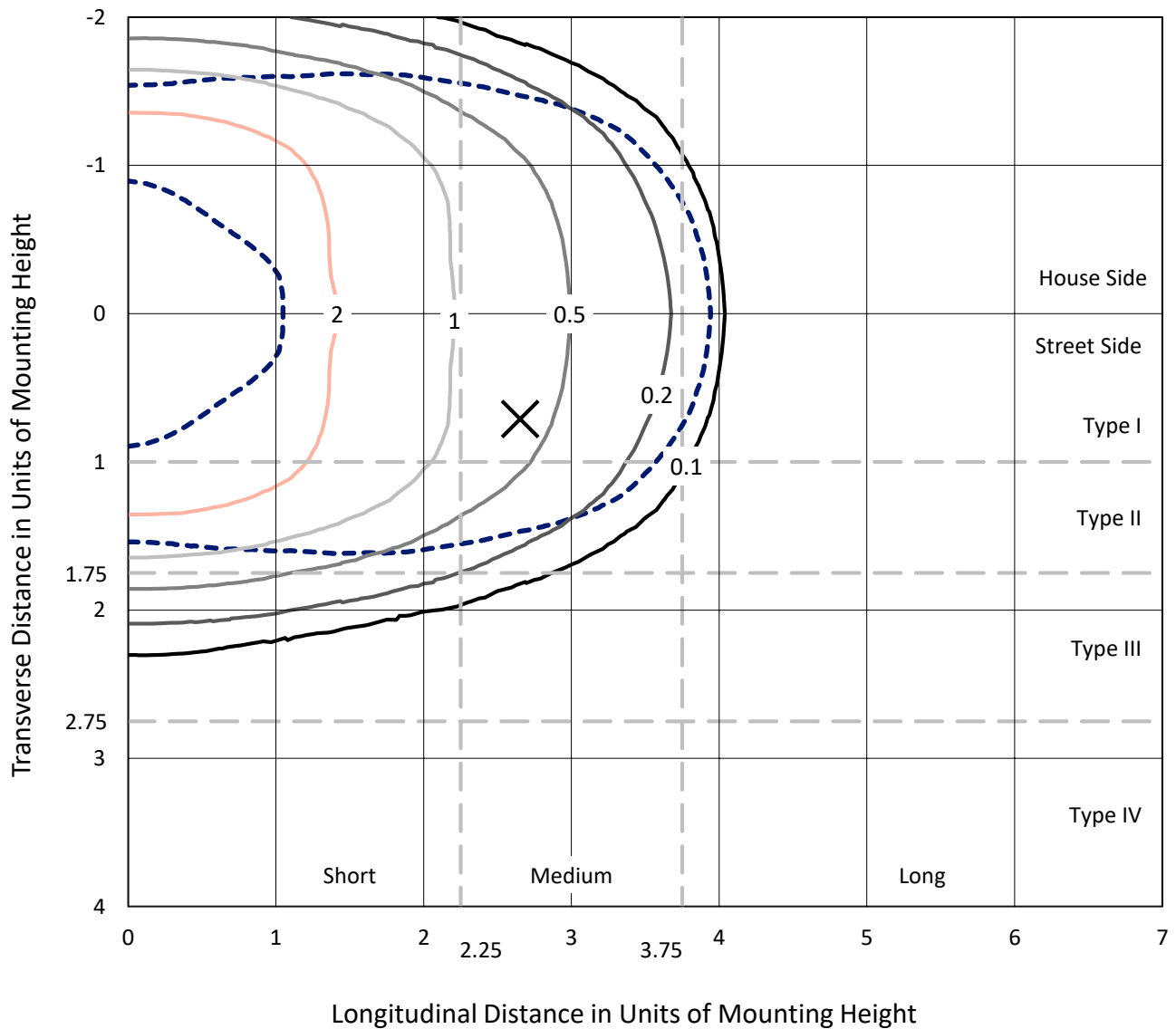
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

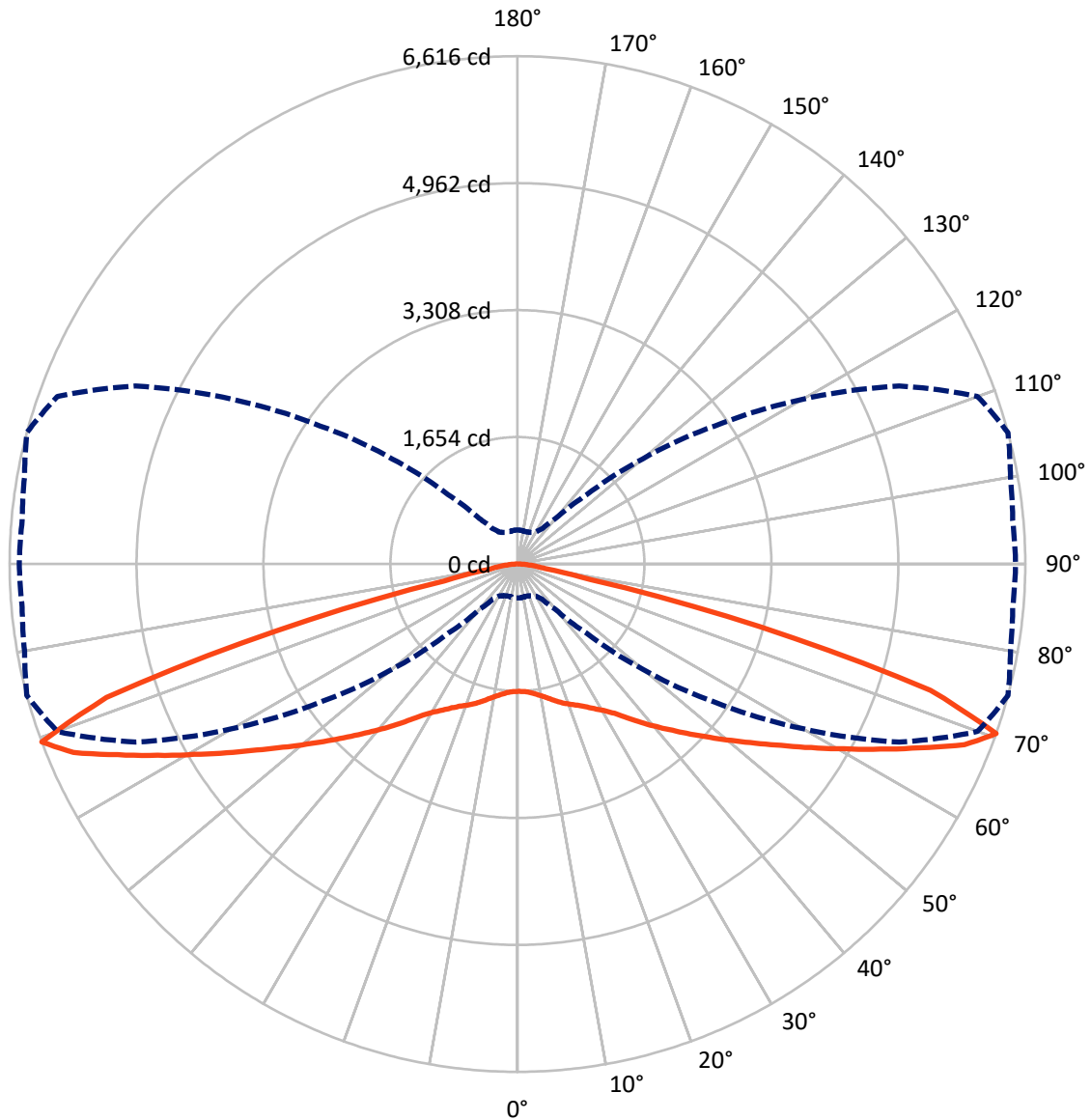
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	7477.9	0.0	7477.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7477.9	0.0	7477.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	14955.7	0.0	14955.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	1.1
10°-20°	494.4	3.3
20°-30°	930.5	6.2
30°-40°	1647.7	11.0
40°-50°	2755.4	18.4
50°-60°	3839.7	25.7
60°-70°	3560.7	23.8
70°-80°	1419.1	9.5
80°-90°	149.2	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°	14955.7	100.0
0°-180°	14955.7	100.0



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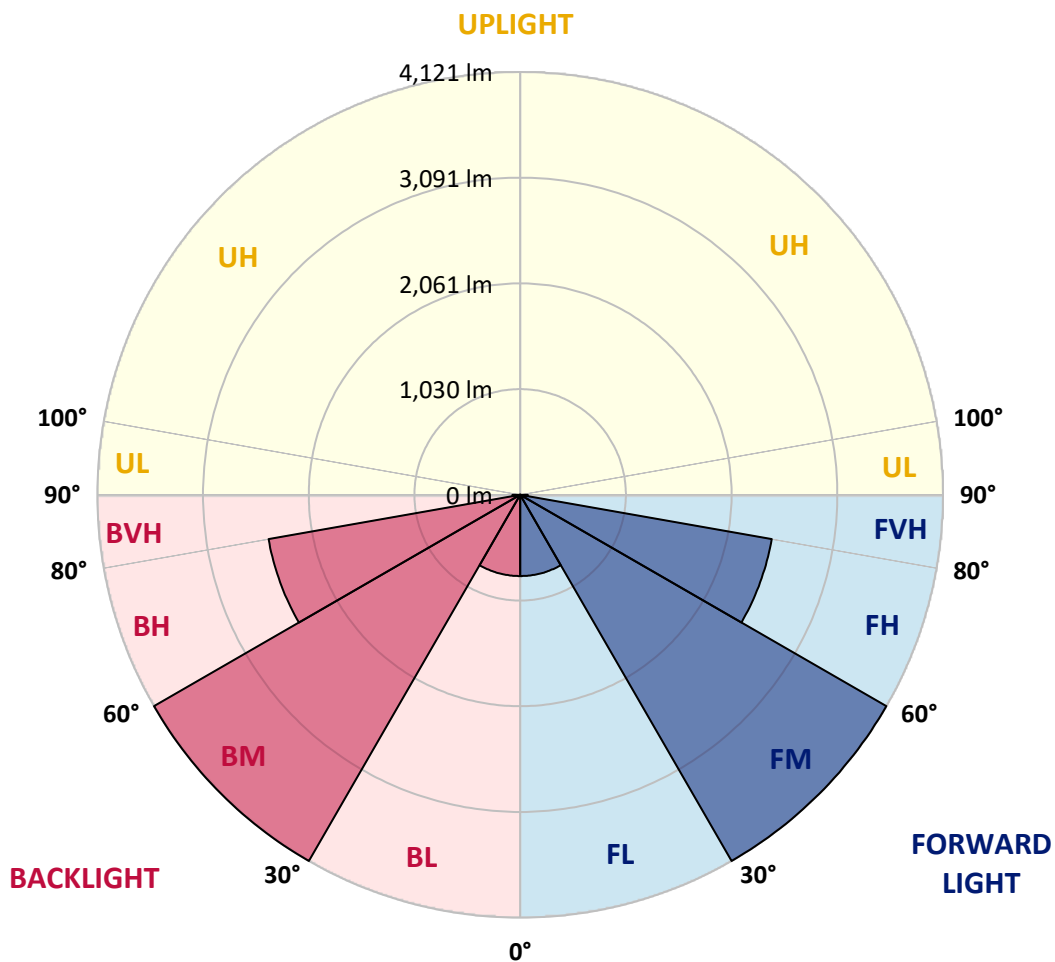
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.0	5.3			
FM	(30°-60°)	4121.4	27.6			
FH	(60°-80°)	2489.9	16.6			G2/5000
FVH	(80°-90°)	74.6	0.5			G1/100
BL	(0°-30°)	792.0	5.3	B2/1000		
BM	(30°-60°)	4121.4	27.6	B3/5000		
BH	(60°-80°)	2489.9	16.6	B3/2500		G3/2500
BVH	(80°-90°)	74.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9
2.5°	1656.1	1654.7	1656.1	1655.4	1656.8	1656.8	1658.2	1661.1	1661.1	1663.2	1662.5
5°	1639.9	1639.1	1641.3	1643.4	1645.5	1649.7	1654.0	1660.4	1665.3	1668.8	1672.4
7.5°	1608.0	1608.0	1610.9	1615.8	1620.8	1630.0	1639.9	1652.6	1665.3	1675.9	1685.1
10°	1581.9	1583.3	1586.8	1595.3	1603.8	1617.9	1631.4	1649.7	1667.4	1685.1	1699.2
12.5°	1566.3	1568.5	1574.8	1587.5	1601.7	1620.8	1641.3	1664.6	1684.4	1705.6	1719.7
15°	1571.3	1572.7	1581.9	1597.4	1615.8	1639.9	1667.4	1695.0	1718.3	1740.9	1760.0
17.5°	1598.9	1601.0	1611.6	1629.3	1648.3	1676.6	1706.3	1737.4	1766.4	1791.8	1815.1
20°	1648.3	1650.5	1663.9	1683.0	1705.6	1734.6	1764.3	1796.8	1829.3	1856.1	1882.3
22.5°	1718.3	1721.8	1734.6	1753.7	1779.1	1810.2	1845.5	1880.2	1911.3	1936.0	1959.3
25°	1810.2	1818.0	1830.0	1851.2	1878.1	1906.3	1944.5	1979.8	2009.5	2032.9	2049.8
27.5°	1940.3	1950.9	1960.0	1980.5	2006.7	2033.6	2071.7	2102.8	2131.1	2153.7	2166.4
30°	2112.7	2123.3	2132.5	2152.3	2176.3	2201.8	2237.8	2265.4	2283.1	2300.7	2300.0
32.5°	2321.9	2333.3	2336.8	2358.0	2382.7	2410.3	2442.8	2458.4	2472.5	2474.6	2461.9
35°	2555.9	2561.6	2575.7	2604.0	2632.2	2654.9	2686.0	2693.7	2693.7	2683.1	2654.9
37.5°	2812.5	2816.0	2835.8	2867.6	2896.6	2919.9	2941.1	2956.7	2948.9	2926.3	2878.9
40°	3093.8	3100.2	3128.4	3156.7	3189.2	3211.1	3233.8	3236.6	3228.8	3195.6	3131.3
42.5°	3362.4	3368.1	3396.3	3440.9	3483.3	3513.7	3534.9	3539.1	3514.4	3484.0	3404.1
45°	3593.5	3608.4	3645.1	3697.4	3758.9	3802.1	3831.0	3843.1	3821.1	3781.6	3689.0
47.5°	3776.6	3791.5	3843.8	3906.0	3982.3	4052.3	4100.3	4125.8	4120.1	4090.4	3989.4
50°	3910.9	3925.0	3981.6	4057.9	4147.0	4233.9	4315.9	4376.7	4397.9	4384.5	4291.9
52.5°	3926.5	3949.8	4016.2	4118.7	4234.6	4353.4	4470.0	4573.2	4643.2	4653.8	4585.2
55°	3709.5	3732.8	3824.7	3976.6	4149.1	4342.8	4529.4	4703.3	4841.1	4911.8	4875.7
57.5°	3197.7	3239.4	3336.3	3514.4	3768.1	4057.9	4355.5	4664.4	4945.0	5132.3	5168.4
60°	2450.6	2500.1	2597.6	2787.0	3069.8	3415.4	3812.7	4269.3	4764.8	5186.0	5437.7
62.5°	1572.0	1618.6	1721.1	1885.8	2116.3	2490.9	2917.1	3459.2	4125.1	4790.2	5389.6
65°	807.9	833.4	887.1	986.7	1166.3	1446.2	1828.6	2369.3	3130.6	3951.2	4817.8
67.5°	511.7	516.7	528.7	542.8	588.8	685.6	863.8	1200.9	1827.2	2683.1	3697.4
70°	442.5	442.5	436.8	434.7	440.4	453.8	481.4	559.8	771.2	1273.7	2132.5
72.5°	405.0	400.8	390.9	383.1	381.7	381.7	387.3	399.4	433.3	518.8	834.8
75°	373.2	361.2	347.8	338.6	335.0	331.5	330.8	332.9	340.0	353.4	398.7
77.5°	334.3	318.8	303.2	294.0	289.8	284.9	280.6	275.7	272.1	276.4	296.2
80°	287.7	270.0	258.0	252.3	248.1	241.0	231.8	223.4	215.6	214.2	226.2
82.5°	231.8	211.3	212.1	214.2	206.4	196.5	186.6	177.4	164.0	156.9	164.0
85°	187.3	176.7	171.8	185.2	173.9	159.0	143.5	127.2	106.0	89.1	96.8
87.5°	72.8	72.8	108.9	167.5	150.6	123.0	105.3	89.8	55.8	43.1	43.8
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°	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9
2.5°	1661.8	1663.2	1662.5	1661.8	1661.8	1661.1	1661.8	1661.8
5°	1674.5	1678.0	1678.0	1679.4	1679.4	1680.1	1680.9	1680.1
7.5°	1693.6	1699.9	1704.2	1709.1	1709.8	1710.5	1712.0	1710.5
10°	1712.7	1725.4	1734.6	1743.8	1748.0	1749.4	1750.8	1750.8
12.5°	1736.7	1754.4	1770.6	1786.9	1794.7	1798.9	1798.9	1801.7
15°	1776.3	1793.9	1813.0	1834.9	1848.4	1855.4	1857.6	1857.6
17.5°	1832.1	1847.7	1863.9	1885.1	1902.1	1911.3	1913.4	1912.7
20°	1897.1	1912.0	1921.2	1934.6	1949.4	1960.0	1962.9	1962.9
22.5°	1971.4	1979.8	1981.3	1985.5	1997.5	2011.6	2018.0	2019.4
25°	2053.4	2055.5	2049.8	2049.8	2057.6	2071.0	2077.4	2078.1
27.5°	2159.4	2148.8	2134.6	2129.7	2134.6	2150.2	2158.0	2160.8
30°	2291.6	2266.1	2233.6	2215.9	2213.1	2233.6	2247.7	2249.9
32.5°	2442.8	2406.1	2362.9	2326.9	2317.7	2330.4	2347.4	2346.7
35°	2622.4	2578.5	2526.2	2480.3	2459.1	2471.8	2495.8	2498.7
37.5°	2829.5	2772.2	2712.1	2654.2	2620.9	2624.5	2649.9	2658.4
40°	3060.6	2986.4	2910.7	2833.0	2785.6	2776.4	2807.5	2812.5
42.5°	3308.0	3212.6	3117.1	3021.0	2960.2	2946.1	2982.1	2980.0
45°	3571.6	3450.1	3338.4	3232.3	3160.3	3139.0	3168.7	3168.7
47.5°	3855.1	3705.2	3572.3	3452.2	3373.7	3343.3	3371.6	3373.7
50°	4155.5	3996.4	3840.2	3706.6	3612.6	3573.8	3610.5	3616.2
52.5°	4454.5	4299.7	4142.0	3989.4	3875.6	3828.2	3870.6	3889.0
55°	4757.7	4605.7	4455.2	4306.0	4171.0	4115.2	4160.4	4183.7
57.5°	5077.9	4937.2	4793.7	4643.2	4513.1	4426.2	4474.3	4505.4
60°	5453.2	5333.1	5183.9	5017.8	4886.3	4798.0	4825.6	4853.1
62.5°	5750.1	5796.7	5670.2	5478.0	5309.0	5195.9	5222.8	5251.8
65°	5606.6	6085.1	6197.5	6003.1	5769.2	5593.2	5581.9	5596.7
67.5°	4686.3	5615.8	6293.6	6478.8	6283.0	6038.5	5993.2	6015.2
70°	3134.8	4292.6	5488.6	6379.2	6616.0	6521.2	6476.7	6490.1
72.5°	1505.6	2500.1	3723.6	4907.5	5628.5	5959.3	6065.3	6116.9
75°	550.6	992.4	1794.7	2704.3	3264.9	3779.4	4115.2	4252.3
77.5°	332.2	400.8	573.2	863.0	977.6	1094.2	1048.9	1071.6
80°	246.0	277.8	314.5	353.4	366.1	366.1	352.0	340.7
82.5°	172.5	193.0	210.6	231.8	237.5	226.9	186.6	148.4
85°	111.0	120.2	127.9	141.4	137.8	131.5	88.4	78.5
87.5°	50.9	58.0	60.8	67.1	64.3	61.5	43.8	36.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)