

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: P300674

Luminaire Tested: **GLNA-AF-04-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300674
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-04-LED-E1-RW-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15586.5 lumens
Efficiency: N/A
Efficacy: 120.8 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

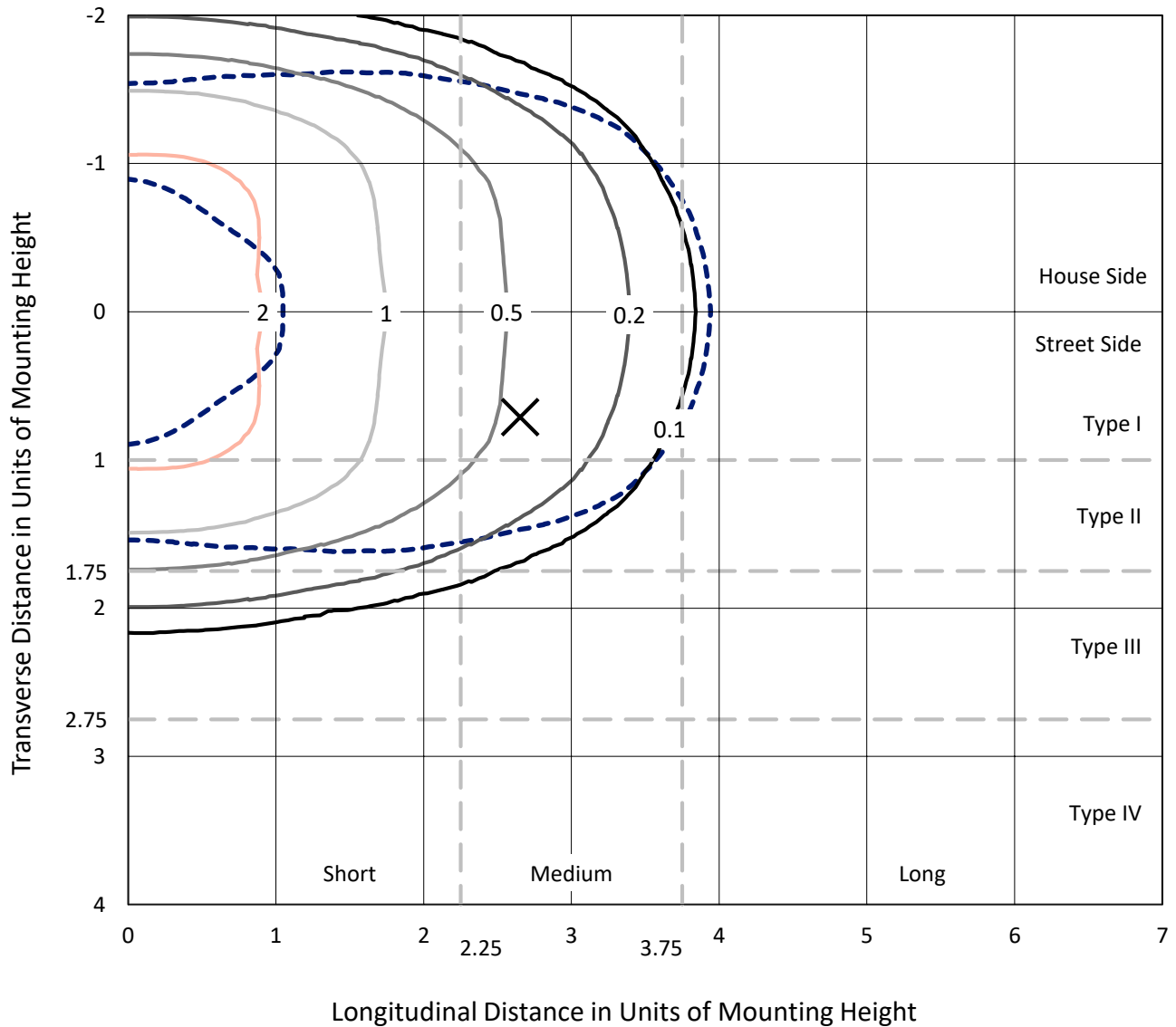
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300674
 CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7030-600

Iso-Footcandle Lines of Horizontal Illumination

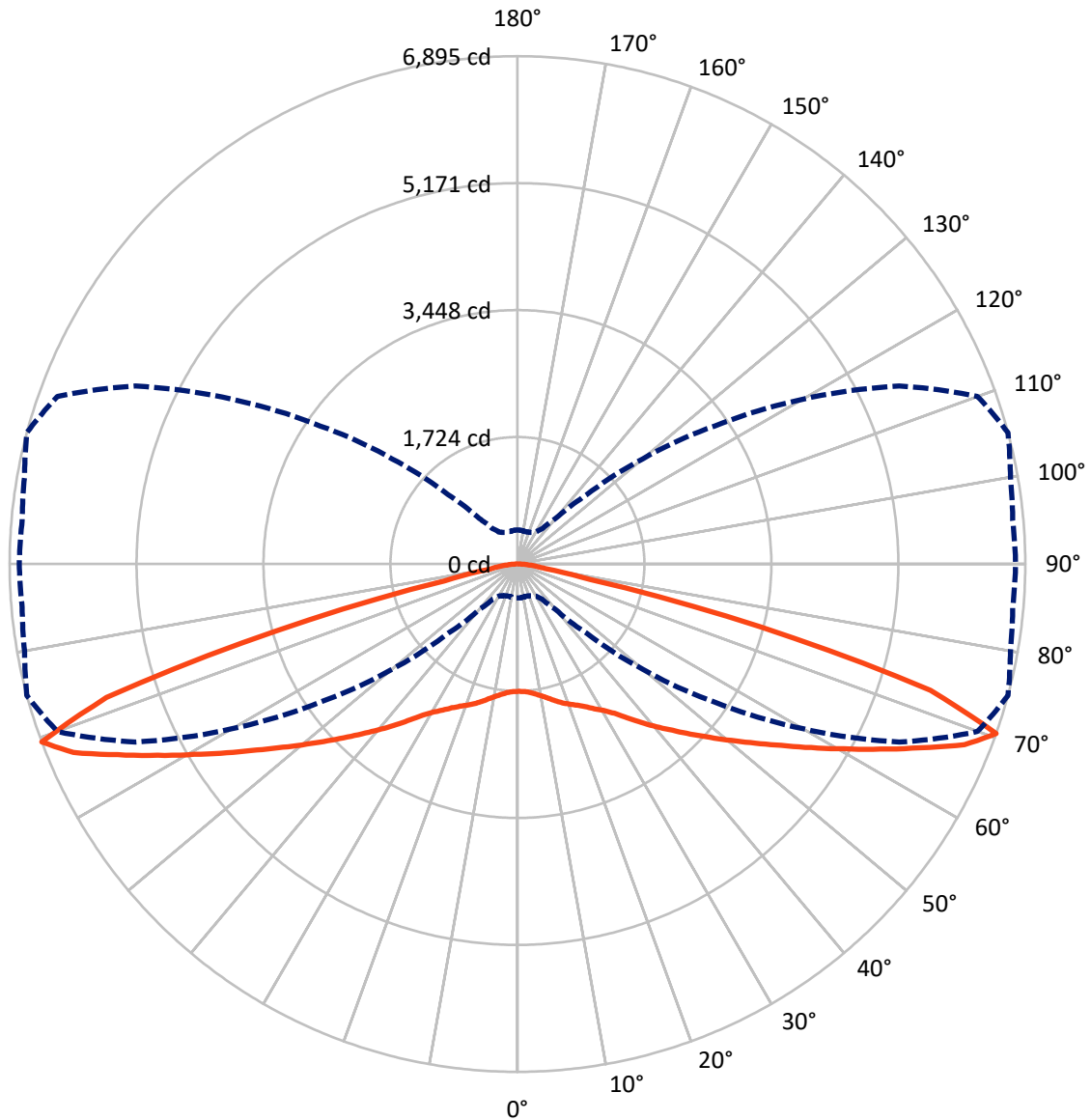
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300674
CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P300674

CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7793.2	0.0	7793.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7793.2	0.0	7793.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15586.5	0.0	15586.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.1
10°-20°	515.2	3.3
20°-30°	969.7	6.2
30°-40°	1717.2	11.0
40°-50°	2871.7	18.4
50°-60°	4001.7	25.7
60°-70°	3710.9	23.8
70°-80°	1478.9	9.5
80°-90°	155.5	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°	15586.5	100.0
0°-180°	15586.5	100.0



REPORT NUMBER: P300674

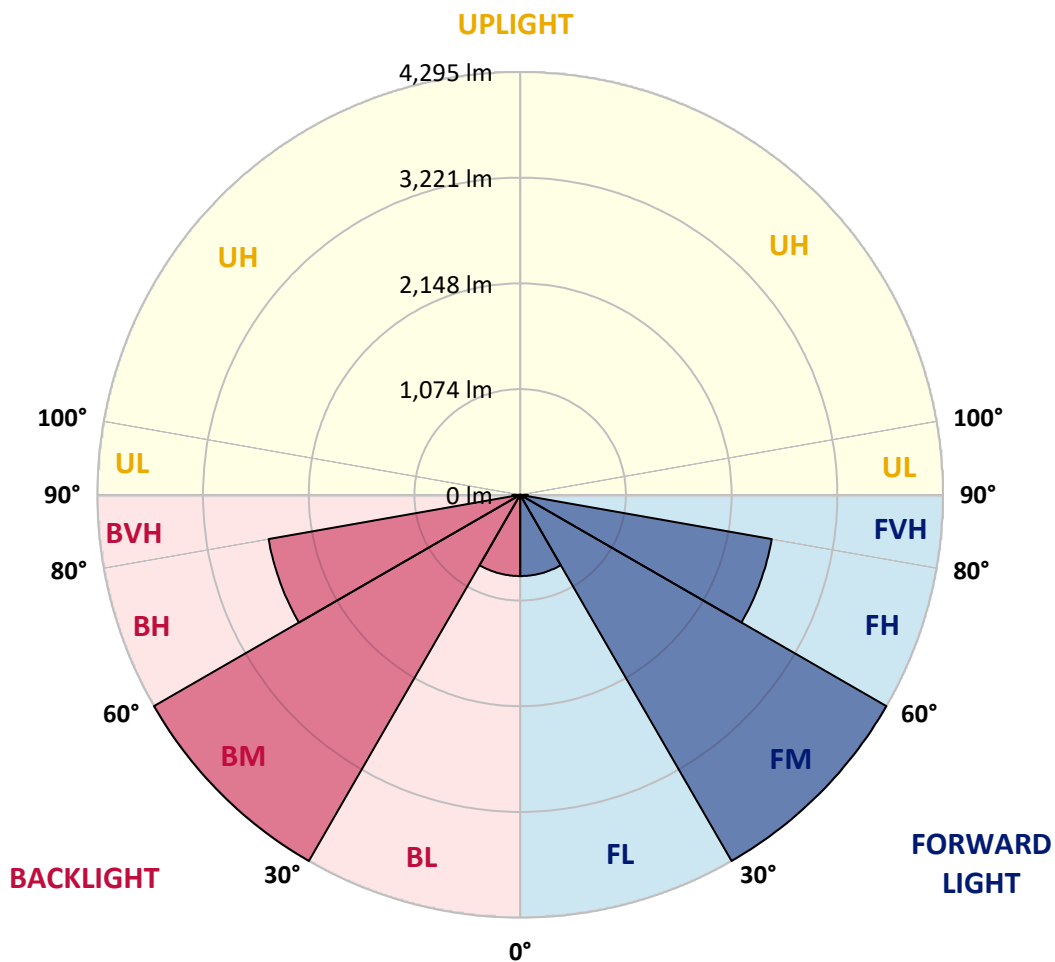
CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.4	5.3			
FM	(30°-60°)	4295.2	27.6			
FH	(60°-80°)	2594.9	16.6			G2/5000
FVH	(80°-90°)	77.7	0.5			G1/100
BL	(0°-30°)	825.4	5.3	B2/1000		
BM	(30°-60°)	4295.2	27.6	B3/5000		
BH	(60°-80°)	2594.9	16.6	B4/5000		G4/5000
BVH	(80°-90°)	77.7	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





REPORT NUMBER: P300674

CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9
2.5°	1726.0	1724.5	1726.0	1725.2	1726.7	1726.7	1728.2	1731.1	1731.1	1733.3	1732.6
5°	1709.0	1708.3	1710.5	1712.7	1714.9	1719.3	1723.7	1730.4	1735.5	1739.2	1742.9
7.5°	1675.9	1675.9	1678.8	1684.0	1689.1	1698.7	1709.0	1722.3	1735.5	1746.6	1756.2
10°	1648.6	1650.1	1653.8	1662.6	1671.4	1686.2	1700.2	1719.3	1737.7	1756.2	1770.9
12.5°	1632.4	1634.6	1641.2	1654.5	1669.2	1689.1	1710.5	1734.8	1755.4	1777.5	1792.3
15°	1637.6	1639.0	1648.6	1664.8	1684.0	1709.0	1737.7	1766.5	1790.8	1814.4	1834.2
17.5°	1666.3	1668.5	1679.5	1698.0	1717.9	1747.3	1778.3	1810.7	1840.9	1867.4	1891.7
20°	1717.9	1720.1	1734.1	1753.9	1777.5	1807.7	1838.7	1872.5	1906.4	1934.4	1961.7
22.5°	1790.8	1794.5	1807.7	1827.6	1854.1	1886.5	1923.4	1959.5	1991.9	2017.7	2042.0
25°	1886.5	1894.6	1907.2	1929.3	1957.3	1986.7	2026.5	2063.3	2094.3	2118.6	2136.3
27.5°	2022.1	2033.1	2042.7	2064.1	2091.3	2119.3	2159.1	2191.5	2221.0	2244.6	2257.8
30°	2201.8	2212.9	2222.5	2243.1	2268.1	2294.6	2332.2	2360.9	2379.4	2397.8	2397.0
32.5°	2419.9	2431.7	2435.3	2457.4	2483.2	2512.0	2545.8	2562.0	2576.8	2579.0	2565.7
35°	2663.7	2669.6	2684.3	2713.8	2743.3	2766.8	2799.2	2807.3	2807.3	2796.3	2766.8
37.5°	2931.1	2934.8	2955.4	2988.6	3018.8	3043.1	3065.2	3081.4	3073.3	3049.7	3000.4
40°	3224.3	3230.9	3260.4	3289.9	3323.7	3346.6	3370.1	3373.1	3365.0	3330.4	3263.3
42.5°	3504.2	3510.1	3539.6	3586.0	3630.2	3661.9	3684.0	3688.4	3662.6	3630.9	3547.7
45°	3745.1	3760.6	3798.9	3853.4	3917.5	3962.4	3992.6	4005.1	3982.3	3941.0	3844.5
47.5°	3935.9	3951.4	4005.9	4070.7	4150.3	4223.2	4273.3	4299.8	4293.9	4263.0	4157.6
50°	4075.9	4090.6	4149.5	4229.1	4321.9	4412.5	4497.9	4561.3	4583.4	4569.4	4472.9
52.5°	4092.1	4116.4	4185.6	4292.4	4413.2	4537.0	4658.5	4766.1	4839.0	4850.1	4778.6
55°	3865.9	3890.2	3986.0	4144.4	4324.1	4525.9	4720.4	4901.6	5045.3	5118.9	5081.4
57.5°	3332.6	3376.0	3477.0	3662.6	3927.0	4229.1	4539.2	4861.1	5153.6	5348.8	5386.3
60°	2553.9	2605.5	2707.2	2904.6	3199.2	3559.5	3973.5	4449.3	4965.7	5404.8	5667.0
62.5°	1638.3	1686.9	1793.7	1965.4	2205.5	2595.9	3040.1	3605.1	4299.1	4992.2	5616.9
65°	842.0	868.5	924.5	1028.4	1215.5	1507.2	1905.7	2469.2	3262.6	4117.8	5021.0
67.5°	533.3	538.5	551.0	565.7	613.6	714.5	900.2	1251.6	1904.2	2796.3	3853.4
70°	461.1	461.1	455.2	453.0	458.9	472.9	501.7	583.4	803.7	1327.4	2222.5
72.5°	422.1	417.7	407.4	399.3	397.8	397.8	403.7	416.2	451.6	540.7	870.0
75°	388.9	376.4	362.4	352.9	349.2	345.5	344.7	347.0	354.3	368.3	415.5
77.5°	348.4	332.2	316.0	306.4	302.0	296.9	292.4	287.3	283.6	288.0	308.7
80°	299.8	281.4	268.9	263.0	258.6	251.2	241.6	232.8	224.7	223.2	235.7
82.5°	241.6	220.3	221.0	223.2	215.1	204.8	194.5	184.9	170.9	163.5	170.9
85°	195.2	184.2	179.0	193.0	181.2	165.7	149.5	132.6	110.5	92.8	100.9
87.5°	75.9	75.9	113.4	174.6	156.9	128.2	109.8	93.6	58.2	44.9	45.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300674

CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9
2.5°	1731.8	1733.3	1732.6	1731.8	1731.8	1731.1	1731.8	1731.8
5°	1745.1	1748.8	1748.8	1750.3	1750.3	1751.0	1751.7	1751.0
7.5°	1765.0	1771.6	1776.0	1781.2	1781.9	1782.7	1784.2	1782.7
10°	1784.9	1798.1	1807.7	1817.3	1821.7	1823.2	1824.7	1824.7
12.5°	1809.9	1828.4	1845.3	1862.2	1870.3	1874.8	1874.8	1877.7
15°	1851.2	1869.6	1889.5	1912.3	1926.3	1933.7	1935.9	1935.9
17.5°	1909.4	1925.6	1942.5	1964.6	1982.3	1991.9	1994.1	1993.4
20°	1977.2	1992.6	2002.2	2016.2	2031.7	2042.7	2045.7	2045.7
22.5°	2054.5	2063.3	2064.8	2069.2	2081.8	2096.5	2103.1	2104.6
25°	2140.0	2142.2	2136.3	2136.3	2144.4	2158.4	2165.0	2165.7
27.5°	2250.4	2239.4	2224.7	2219.5	2224.7	2240.9	2249.0	2251.9
30°	2388.2	2361.7	2327.8	2309.4	2306.4	2327.8	2342.5	2344.7
32.5°	2545.8	2507.5	2462.6	2425.0	2415.5	2428.7	2446.4	2445.7
35°	2732.9	2687.3	2632.8	2584.9	2562.8	2576.0	2601.1	2604.0
37.5°	2948.8	2889.1	2826.5	2766.1	2731.5	2735.2	2761.7	2770.5
40°	3189.7	3112.3	3033.5	2952.5	2903.1	2893.5	2925.9	2931.1
42.5°	3447.5	3348.0	3248.6	3148.4	3085.1	3070.3	3107.9	3105.7
45°	3722.3	3595.6	3479.2	3368.7	3293.5	3271.4	3302.4	3302.4
47.5°	4017.7	3861.5	3723.0	3597.8	3516.0	3484.3	3513.8	3516.0
50°	4330.7	4165.0	4002.2	3863.0	3765.0	3724.5	3762.8	3768.7
52.5°	4642.3	4481.0	4316.7	4157.6	4039.0	3989.7	4033.9	4053.0
55°	4958.4	4800.0	4643.1	4487.6	4346.9	4288.7	4335.9	4360.2
57.5°	5292.0	5145.5	4995.9	4839.0	4703.5	4612.9	4663.0	4695.4
60°	5683.2	5558.0	5402.5	5229.4	5092.4	5000.3	5029.1	5057.8
62.5°	5992.6	6041.2	5909.4	5709.0	5532.9	5415.1	5443.1	5473.3
65°	5843.1	6341.8	6458.9	6256.3	6012.5	5829.1	5817.3	5832.7
67.5°	4883.9	5852.6	6559.1	6752.1	6548.0	6293.1	6246.0	6268.8
70°	3267.0	4473.6	5720.0	6648.2	6895.0	6796.3	6749.9	6763.9
72.5°	1569.1	2605.5	3880.6	5114.5	5865.9	6210.6	6321.1	6374.9
75°	573.8	1034.2	1870.3	2818.4	3402.6	3938.8	4288.7	4431.6
77.5°	346.2	417.7	597.4	899.4	1018.8	1140.3	1093.2	1116.8
80°	256.4	289.5	327.8	368.3	381.6	381.6	366.8	355.1
82.5°	179.7	201.1	219.5	241.6	247.5	236.5	194.5	154.7
85°	115.7	125.2	133.3	147.3	143.6	137.0	92.1	81.8
87.5°	53.0	60.4	63.4	70.0	67.0	64.1	45.7	38.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)