

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: P300608

Luminaire Tested: **GLNA-AF-03-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300608  
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-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K 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: 14466.4 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

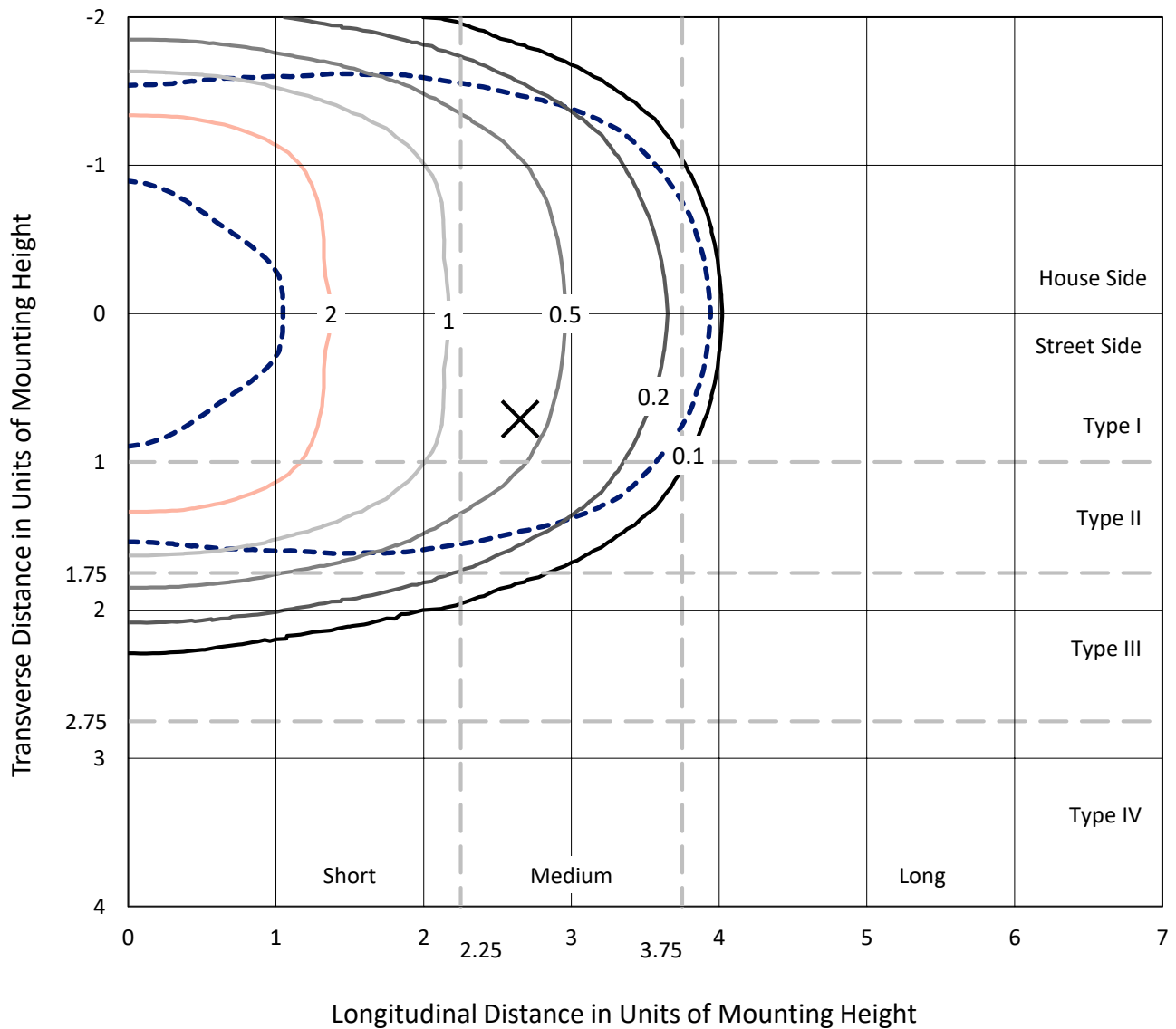


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### Iso-Footcandle Lines of Horizontal Illumination

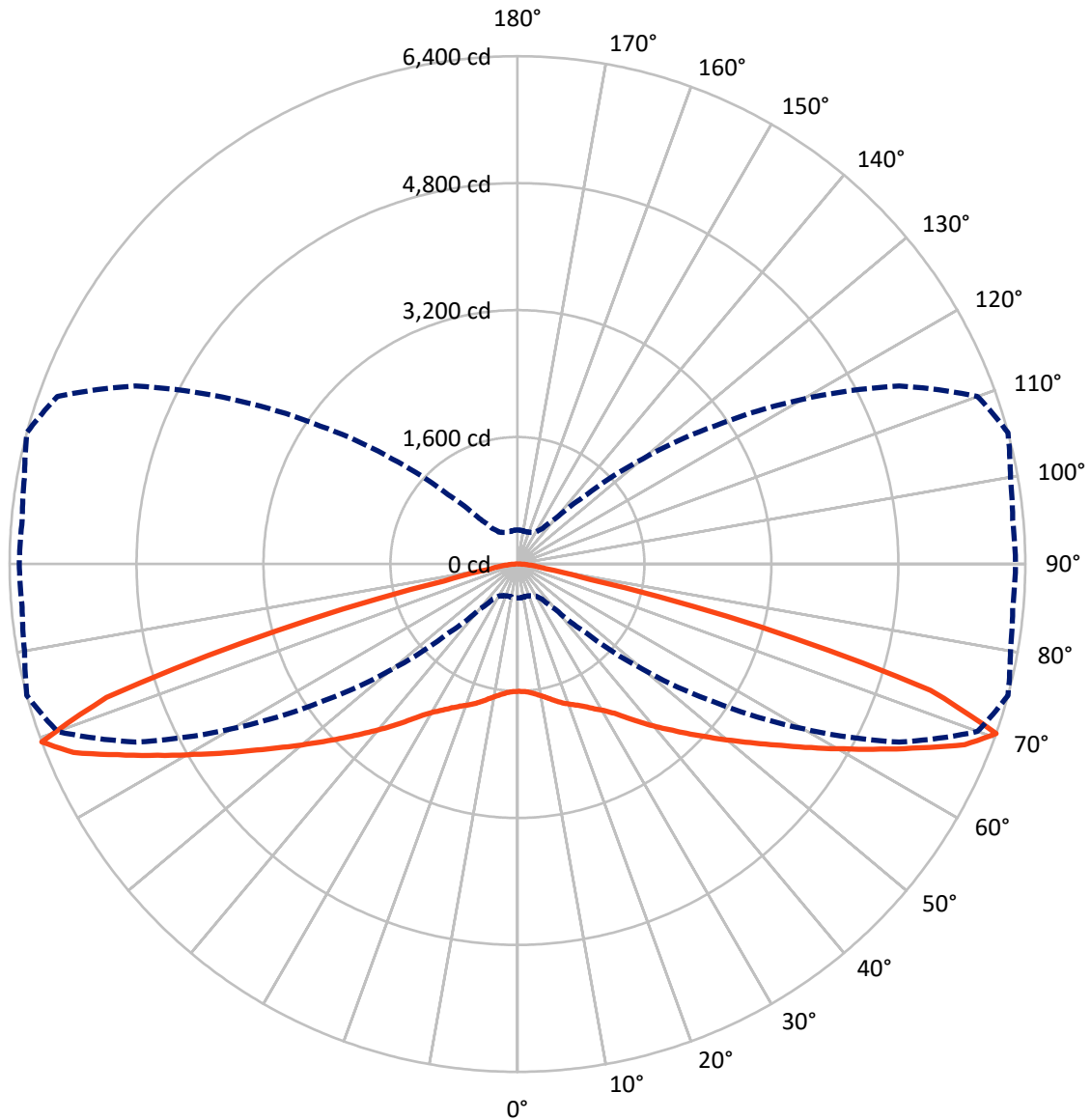
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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
<b>House Side</b>	Lumens	7233.2	0.0	7233.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7233.2	0.0	7233.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14466.4	0.0	14466.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	1.1
10°-20°	478.2	3.3
20°-30°	900.0	6.2
30°-40°	1593.8	11.0
40°-50°	2665.3	18.4
50°-60°	3714.1	25.7
60°-70°	3444.2	23.8
70°-80°	1372.6	9.5
80°-90°	144.3	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°	14466.4	100.0
0°-180°	14466.4	100.0

**Coefficient of Utilization**



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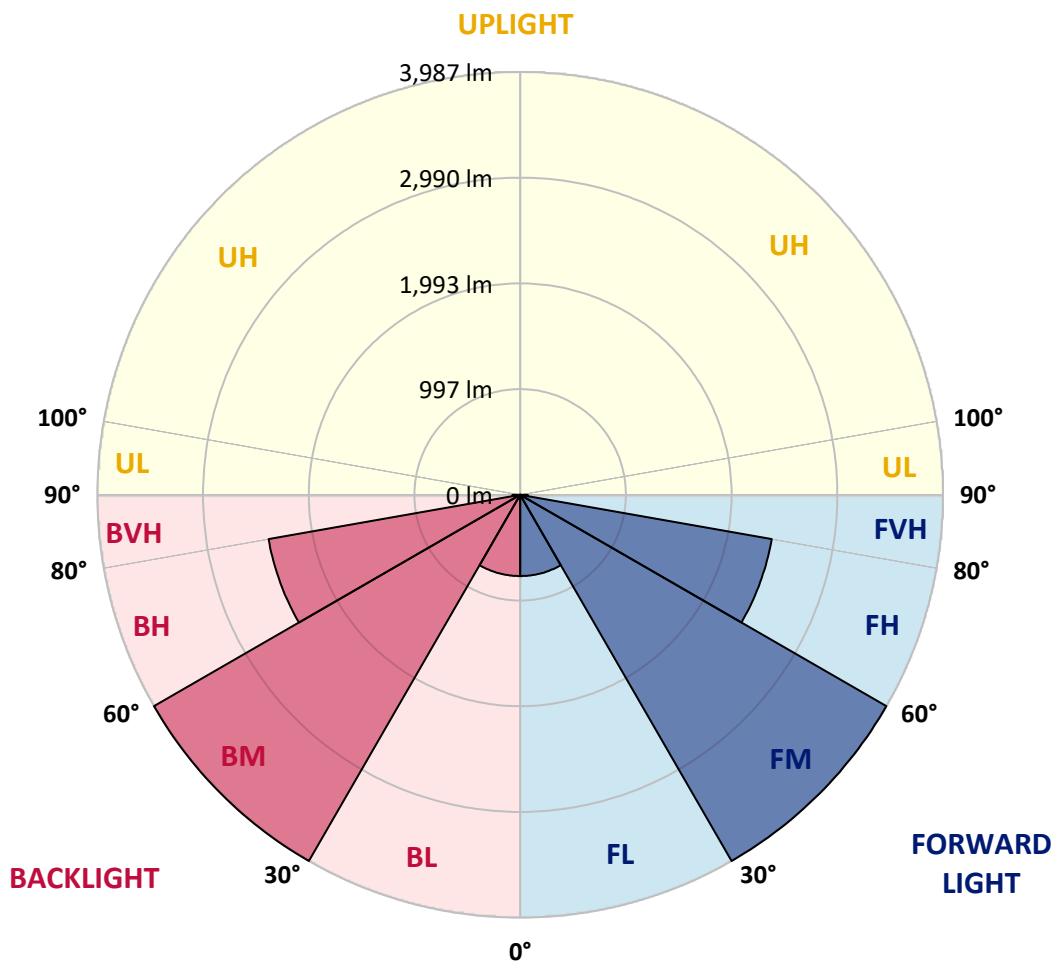
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	766.1	5.3			
FM	(30°-60°)	3986.6	27.6			
FH	(60°-80°)	2408.4	16.6			G2/5000
FVH	(80°-90°)	72.1	0.5			G1/100
BL	(0°-30°)	766.1	5.3	B2/1000		
BM	(30°-60°)	3986.6	27.6	B3/5000		
BH	(60°-80°)	2408.4	16.6	B3/2500		G3/2500
BVH	(80°-90°)	72.1	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°	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7
2.5°	1601.9	1600.6	1601.9	1601.2	1602.6	1602.6	1604.0	1606.7	1606.7	1608.8	1608.1
5°	1586.2	1585.5	1587.6	1589.6	1591.7	1595.8	1599.9	1606.0	1610.8	1614.2	1617.6
7.5°	1555.4	1555.4	1558.2	1563.0	1567.7	1576.6	1586.2	1598.5	1610.8	1621.1	1630.0
10°	1530.1	1531.5	1534.9	1543.1	1551.3	1565.0	1578.0	1595.8	1612.9	1630.0	1643.6
12.5°	1515.1	1517.1	1523.3	1535.6	1549.3	1567.7	1587.6	1610.1	1629.3	1649.8	1663.5
15°	1519.9	1521.2	1530.1	1545.2	1563.0	1586.2	1612.9	1639.5	1662.1	1684.0	1702.4
17.5°	1546.5	1548.6	1558.8	1575.9	1594.4	1621.7	1650.5	1680.5	1708.6	1733.2	1755.8
20°	1594.4	1596.5	1609.4	1627.9	1649.8	1677.8	1706.5	1738.0	1769.4	1795.4	1820.7
22.5°	1662.1	1665.5	1677.8	1696.3	1720.9	1751.0	1785.2	1818.7	1848.7	1872.7	1895.2
25°	1751.0	1758.5	1770.1	1790.6	1816.6	1844.0	1880.9	1915.1	1943.8	1966.3	1982.7
27.5°	1876.8	1887.0	1895.9	1915.7	1941.0	1967.0	2003.9	2034.0	2061.4	2083.3	2095.6
30°	2043.6	2053.9	2062.7	2081.9	2105.1	2129.7	2164.6	2191.3	2208.4	2225.5	2224.8
32.5°	2246.0	2256.9	2260.3	2280.8	2304.8	2331.4	2362.9	2377.9	2391.6	2393.7	2381.3
35°	2472.3	2477.7	2491.4	2518.8	2546.1	2568.0	2598.1	2605.6	2605.6	2595.3	2568.0
37.5°	2720.5	2723.9	2743.0	2773.8	2801.8	2824.4	2844.9	2859.9	2852.4	2830.5	2784.7
40°	2992.6	2998.7	3026.1	3053.4	3084.9	3106.1	3128.0	3130.7	3123.2	3091.0	3028.8
42.5°	3252.4	3257.9	3285.2	3328.3	3369.3	3398.7	3419.2	3423.3	3399.4	3370.0	3292.7
45°	3476.0	3490.3	3525.9	3576.5	3635.9	3677.7	3705.7	3717.3	3696.1	3657.8	3568.3
47.5°	3653.0	3667.4	3718.0	3778.2	3852.0	3919.7	3966.2	3990.8	3985.3	3956.6	3858.8
50°	3782.9	3796.6	3851.3	3925.2	4011.3	4095.4	4174.7	4233.5	4254.0	4241.0	4151.5
52.5°	3798.0	3820.5	3884.8	3984.0	4096.1	4210.9	4323.8	4423.6	4491.3	4501.5	4435.2
55°	3588.1	3610.6	3699.5	3846.5	4013.4	4200.7	4381.2	4549.4	4682.7	4751.1	4716.2
57.5°	3093.1	3133.4	3227.1	3399.4	3644.8	3925.2	4213.0	4511.8	4783.2	4964.4	4999.3
60°	2370.4	2418.3	2512.6	2695.9	2969.3	3303.7	3687.9	4129.6	4608.9	5016.3	5259.7
62.5°	1520.6	1565.7	1664.8	1824.1	2047.0	2409.4	2821.7	3346.1	3990.1	4633.5	5213.3
65°	781.5	806.1	858.1	954.5	1128.1	1398.9	1768.7	2291.8	3028.1	3821.9	4660.1
67.5°	495.0	499.8	511.4	525.1	569.5	663.2	835.5	1161.6	1767.4	2595.3	3576.5
70°	428.0	428.0	422.5	420.5	425.9	438.9	465.6	541.5	745.9	1232.0	2062.7
72.5°	391.8	387.7	378.1	370.6	369.2	369.2	374.7	386.3	419.1	501.8	807.5
75°	361.0	349.4	336.4	327.5	324.1	320.7	320.0	322.0	328.9	341.9	385.6
77.5°	323.4	308.4	293.3	284.4	280.3	275.5	271.4	266.6	263.2	267.3	286.5
80°	278.3	261.2	249.6	244.1	240.0	233.1	224.3	216.1	208.5	207.2	218.8
82.5°	224.3	204.4	205.1	207.2	199.6	190.1	180.5	171.6	158.6	151.8	158.6
85°	181.2	170.9	166.1	179.1	168.2	153.8	138.8	123.1	102.6	86.1	93.7
87.5°	70.4	70.4	105.3	162.0	145.6	119.0	101.9	86.8	54.0	41.7	42.4
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°	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7
2.5°	1607.4	1608.8	1608.1	1607.4	1607.4	1606.7	1607.4	1607.4
5°	1619.7	1623.1	1623.1	1624.5	1624.5	1625.2	1625.9	1625.2
7.5°	1638.2	1644.3	1648.4	1653.2	1653.9	1654.6	1655.9	1654.6
10°	1656.6	1668.9	1677.8	1686.7	1690.8	1692.2	1693.5	1693.5
12.5°	1679.9	1697.0	1712.7	1728.4	1735.9	1740.0	1740.0	1742.8
15°	1718.2	1735.2	1753.7	1774.9	1787.9	1794.7	1796.8	1796.8
17.5°	1772.2	1787.2	1802.9	1823.4	1839.9	1848.7	1850.8	1850.1
20°	1835.1	1849.4	1858.3	1871.3	1885.7	1895.9	1898.6	1898.6
22.5°	1906.9	1915.1	1916.4	1920.5	1932.2	1945.8	1952.0	1953.3
25°	1986.2	1988.2	1982.7	1982.7	1990.3	2003.3	2009.4	2010.1
27.5°	2088.7	2078.5	2064.8	2060.0	2064.8	2079.8	2087.4	2090.1
30°	2216.6	2192.0	2160.5	2143.4	2140.7	2160.5	2174.2	2176.2
32.5°	2362.9	2327.3	2285.6	2250.8	2241.9	2254.2	2270.6	2269.9
35°	2536.5	2494.2	2443.6	2399.1	2378.6	2390.9	2414.2	2416.9
37.5°	2736.9	2681.5	2623.4	2567.3	2535.2	2538.6	2563.2	2571.4
40°	2960.4	2888.7	2815.5	2740.3	2694.5	2685.6	2715.7	2720.5
42.5°	3199.7	3107.4	3015.1	2922.2	2863.4	2849.7	2884.6	2882.5
45°	3454.8	3337.2	3229.1	3126.6	3056.8	3036.3	3065.1	3065.1
47.5°	3728.9	3584.0	3455.4	3339.2	3263.3	3233.9	3261.3	3263.3
50°	4019.5	3865.7	3714.6	3585.4	3494.4	3456.8	3492.4	3497.8
52.5°	4308.7	4159.0	4006.5	3858.8	3748.8	3702.9	3744.0	3761.7
55°	4602.0	4455.0	4309.4	4165.1	4034.5	3980.5	4024.3	4046.9
57.5°	4911.7	4775.7	4636.9	4491.3	4365.5	4281.4	4327.9	4357.9
60°	5274.8	5158.6	5014.3	4853.6	4726.5	4641.0	4667.7	4694.3
62.5°	5561.9	5607.1	5484.7	5298.7	5135.3	5025.9	5051.9	5079.9
65°	5423.2	5886.0	5994.7	5806.7	5580.4	5410.2	5399.2	5413.6
67.5°	4533.0	5432.0	6087.7	6266.8	6077.5	5840.9	5797.1	5818.3
70°	3032.2	4152.1	5309.0	6170.4	6399.5	6307.9	6264.8	6277.8
72.5°	1456.3	2418.3	3601.8	4747.0	5444.3	5764.3	5866.9	5916.8
75°	532.6	959.9	1735.9	2615.9	3158.0	3655.8	3980.5	4113.2
77.5°	321.3	387.7	554.5	834.8	945.6	1058.4	1014.6	1036.5
80°	237.9	268.7	304.2	341.9	354.2	354.2	340.5	329.5
82.5°	166.8	186.7	203.7	224.3	229.7	219.5	180.5	143.6
85°	107.3	116.2	123.8	136.7	133.3	127.2	85.5	75.9
87.5°	49.2	56.1	58.8	65.0	62.2	59.5	42.4	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)