

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: P300607

Luminaire Tested: **GLNA-AF-03-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300607  
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-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K 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: 12994.1 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

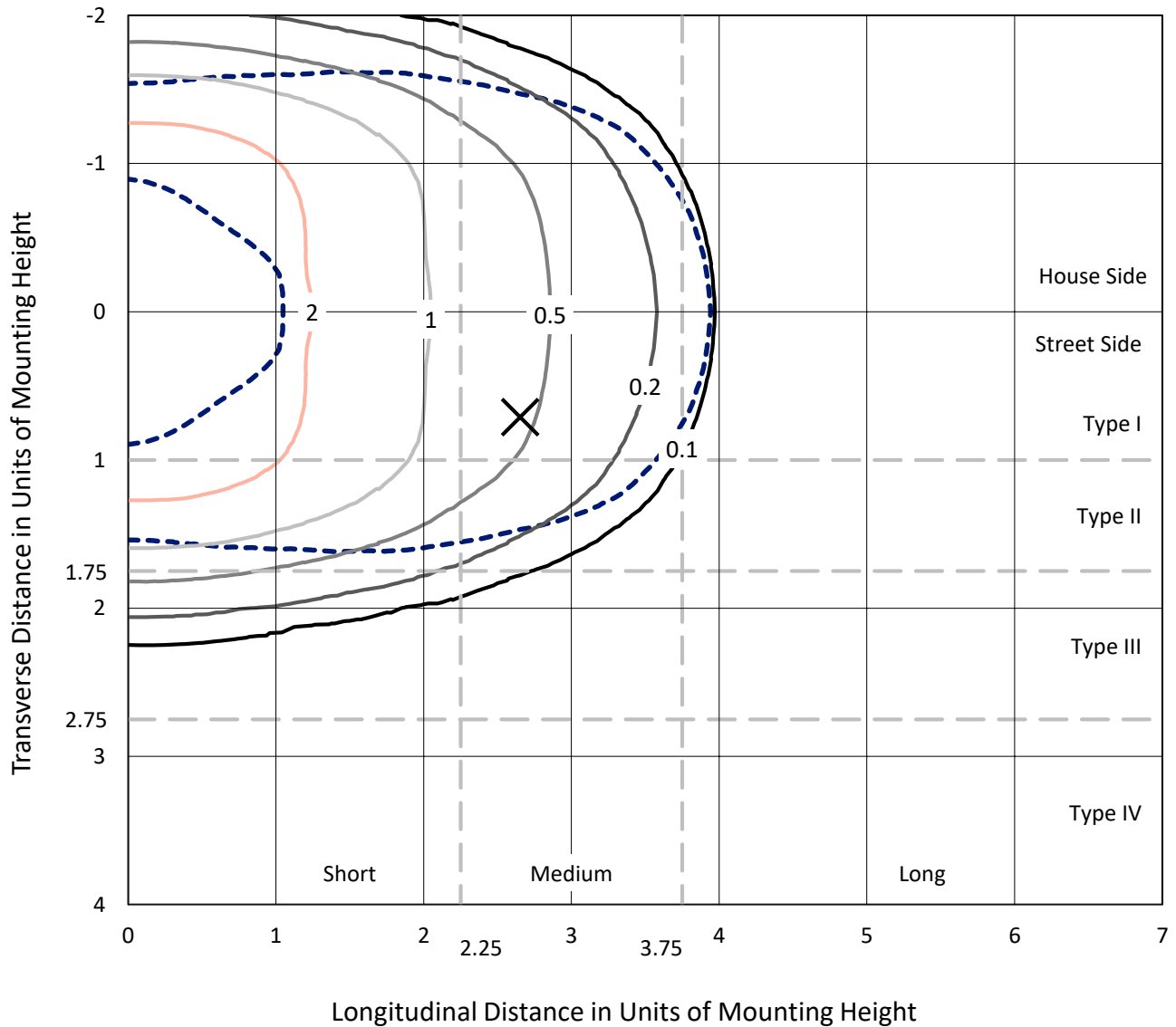
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

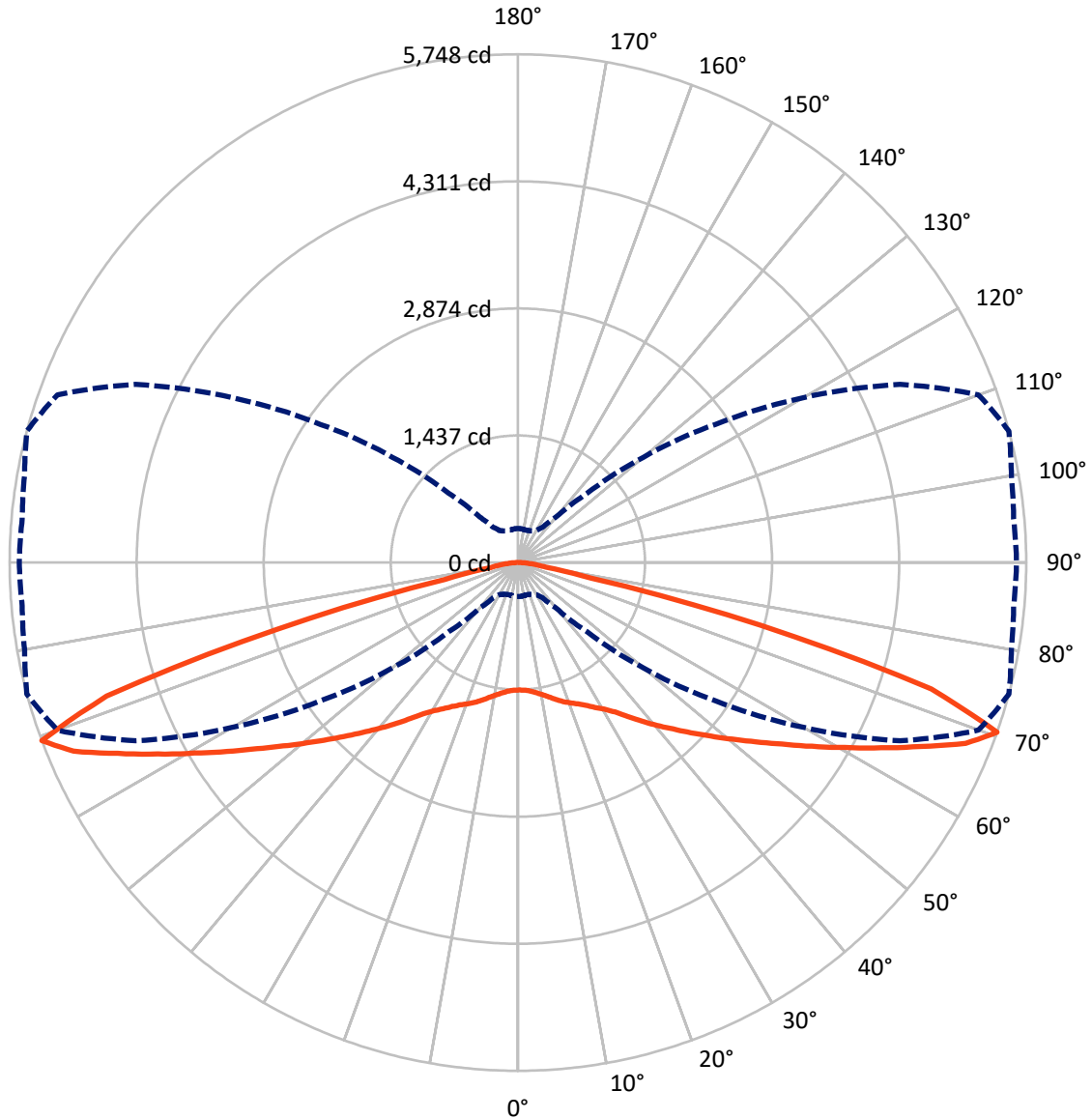
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	6497.1	0.0	6497.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6497.1	0.0	6497.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12994.1	0.0	12994.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	1.1
10°-20°	429.5	3.3
20°-30°	808.4	6.2
30°-40°	1431.6	11.0
40°-50°	2394.0	18.4
50°-60°	3336.1	25.7
60°-70°	3093.7	23.8
70°-80°	1232.9	9.5
80°-90°	129.6	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°	12994.1	100.0
0°-180°	12994.1	100.0



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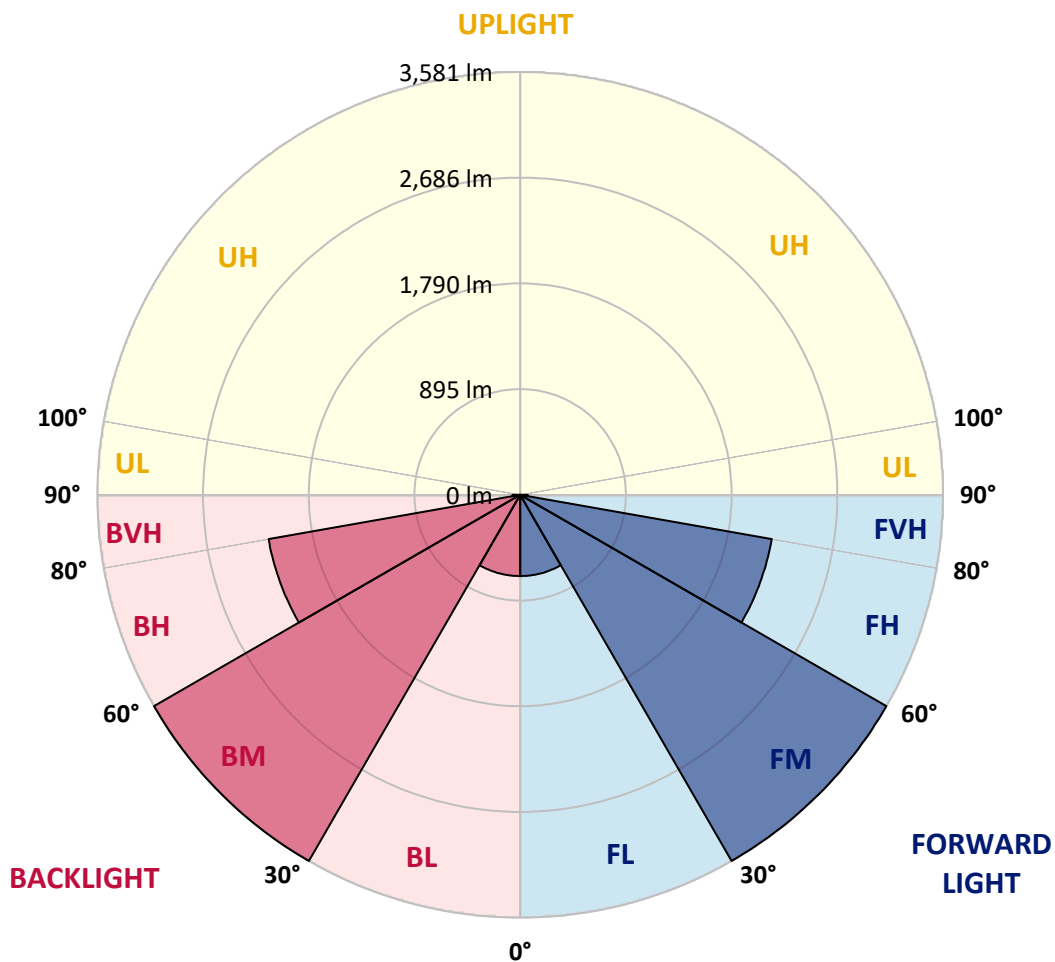
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	688.1	5.3			
FM	(30°-60°)	3580.9	27.6			
FH	(60°-80°)	2163.3	16.6			G2/5000
FVH	(80°-90°)	64.8	0.5			G1/100
BL	(0°-30°)	688.1	5.3	B2/1000		
BM	(30°-60°)	3580.9	27.6	B3/5000		
BH	(60°-80°)	2163.3	16.6	B3/2500		G3/2500
BVH	(80°-90°)	64.8	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°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1438.9	1437.7	1438.9	1438.3	1439.5	1439.5	1440.7	1443.2	1443.2	1445.0	1444.4
5°	1424.8	1424.2	1426.0	1427.8	1429.7	1433.4	1437.1	1442.6	1446.9	1449.9	1453.0
7.5°	1397.1	1397.1	1399.6	1403.9	1408.2	1416.2	1424.8	1435.8	1446.9	1456.1	1464.1
10°	1374.4	1375.6	1378.7	1386.1	1393.4	1405.7	1417.4	1433.4	1448.7	1464.1	1476.4
12.5°	1360.9	1362.7	1368.3	1379.3	1391.6	1408.2	1426.0	1446.3	1463.5	1481.9	1494.2
15°	1365.2	1366.4	1374.4	1387.9	1403.9	1424.8	1448.7	1472.7	1492.9	1512.6	1529.2
17.5°	1389.1	1391.0	1400.2	1415.6	1432.1	1456.7	1482.5	1509.5	1534.7	1556.8	1577.1
20°	1432.1	1434.0	1445.6	1462.2	1481.9	1507.1	1532.9	1561.1	1589.4	1612.7	1635.4
22.5°	1492.9	1496.0	1507.1	1523.6	1545.8	1572.8	1603.5	1633.6	1660.6	1682.1	1702.4
25°	1572.8	1579.5	1590.0	1608.4	1631.7	1656.3	1689.5	1720.2	1746.0	1766.2	1781.0
27.5°	1685.8	1695.0	1703.0	1720.8	1743.5	1766.8	1800.0	1827.0	1851.6	1871.2	1882.3
30°	1835.6	1844.8	1852.8	1870.0	1890.9	1913.0	1944.3	1968.3	1983.6	1999.0	1998.4
32.5°	2017.4	2027.2	2030.3	2048.7	2070.2	2094.2	2122.4	2135.9	2148.2	2150.0	2139.0
35°	2220.7	2225.6	2237.9	2262.4	2287.0	2306.7	2333.7	2340.4	2340.4	2331.2	2306.7
37.5°	2443.6	2446.7	2463.9	2491.5	2516.7	2536.9	2555.4	2568.9	2562.1	2542.5	2501.3
40°	2688.0	2693.5	2718.1	2742.7	2770.9	2790.0	2809.6	2812.1	2805.3	2776.5	2720.6
42.5°	2921.4	2926.3	2950.9	2989.6	3026.4	3052.8	3071.2	3074.9	3053.4	3027.0	2957.6
45°	3122.2	3135.1	3167.0	3212.5	3265.9	3303.4	3328.6	3339.0	3320.0	3285.6	3205.1
47.5°	3281.3	3294.2	3339.6	3393.7	3460.0	3520.8	3562.5	3584.6	3579.7	3553.9	3466.1
50°	3397.9	3410.2	3459.4	3525.7	3603.1	3678.6	3749.8	3802.7	3821.1	3809.4	3729.0
52.5°	3411.5	3431.7	3489.5	3578.5	3679.2	3782.4	3883.7	3973.4	4034.2	4043.4	3983.8
55°	3222.9	3243.2	3323.0	3455.1	3604.9	3773.2	3935.3	4086.4	4206.1	4267.6	4236.2
57.5°	2778.3	2814.5	2898.7	3053.4	3273.9	3525.7	3784.2	4052.6	4296.4	4459.2	4490.5
60°	2129.2	2172.2	2256.9	2421.5	2667.1	2967.4	3312.6	3709.3	4139.8	4505.8	4724.5
62.5°	1365.8	1406.3	1495.4	1638.5	1838.7	2164.2	2534.5	3005.5	3584.0	4161.9	4682.7
65°	701.9	724.1	770.7	857.3	1013.3	1256.5	1588.7	2058.5	2720.0	3433.0	4185.9
67.5°	444.6	448.9	459.4	471.6	511.6	595.7	750.5	1043.4	1587.5	2331.2	3212.5
70°	384.4	384.4	379.5	377.7	382.6	394.3	418.2	486.4	670.0	1106.7	1852.8
72.5°	351.9	348.2	339.6	332.9	331.6	331.6	336.5	347.0	376.5	450.8	725.3
75°	324.3	313.8	302.1	294.2	291.1	288.0	287.4	289.3	295.4	307.1	346.4
77.5°	290.5	277.0	263.5	255.5	251.8	247.5	243.8	239.5	236.4	240.1	257.3
80°	249.9	234.6	224.2	219.2	215.6	209.4	201.4	194.1	187.3	186.1	196.5
82.5°	201.4	183.6	184.2	186.1	179.3	170.7	162.1	154.1	142.5	136.3	142.5
85°	162.7	153.5	149.2	160.9	151.1	138.2	124.7	110.5	92.1	77.4	84.1
87.5°	63.3	63.3	94.6	145.5	130.8	106.9	91.5	78.0	48.5	37.5	38.1
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°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1443.8	1445.0	1444.4	1443.8	1443.8	1443.2	1443.8	1443.8
5°	1454.9	1457.9	1457.9	1459.2	1459.2	1459.8	1460.4	1459.8
7.5°	1471.4	1477.0	1480.7	1485.0	1485.6	1486.2	1487.4	1486.2
10°	1488.0	1499.1	1507.1	1515.0	1518.7	1520.0	1521.2	1521.2
12.5°	1508.9	1524.3	1538.4	1552.5	1559.3	1562.9	1562.9	1565.4
15°	1543.3	1558.6	1575.2	1594.3	1605.9	1612.1	1613.9	1613.9
17.5°	1591.8	1605.3	1619.4	1637.9	1652.6	1660.6	1662.4	1661.8
20°	1648.3	1661.2	1669.2	1680.9	1693.8	1703.0	1705.4	1705.4
22.5°	1712.8	1720.2	1721.4	1725.1	1735.5	1747.8	1753.3	1754.6
25°	1784.0	1785.9	1781.0	1781.0	1787.7	1799.4	1804.9	1805.5
27.5°	1876.1	1866.9	1854.7	1850.4	1854.7	1868.2	1874.9	1877.4
30°	1991.0	1968.9	1940.6	1925.3	1922.8	1940.6	1952.9	1954.8
32.5°	2122.4	2090.5	2053.0	2021.7	2013.7	2024.8	2039.5	2038.9
35°	2278.4	2240.3	2194.9	2155.0	2136.5	2147.6	2168.5	2170.9
37.5°	2458.3	2408.6	2356.4	2306.0	2277.2	2280.2	2302.4	2309.7
40°	2659.2	2594.7	2529.0	2461.4	2420.3	2412.3	2439.3	2443.6
42.5°	2874.1	2791.2	2708.3	2624.8	2572.0	2559.7	2591.0	2589.1
45°	3103.2	2997.5	2900.5	2808.4	2745.7	2727.3	2753.1	2753.1
47.5°	3349.4	3219.2	3103.8	2999.4	2931.2	2904.8	2929.4	2931.2
50°	3610.4	3472.3	3336.5	3220.5	3138.8	3105.0	3136.9	3141.9
52.5°	3870.2	3735.7	3598.8	3466.1	3367.2	3326.1	3362.9	3378.9
55°	4133.7	4001.6	3870.8	3741.2	3623.9	3575.4	3614.7	3635.0
57.5°	4411.9	4289.7	4165.0	4034.2	3921.2	3845.6	3887.4	3914.4
60°	4738.0	4633.6	4504.0	4359.7	4245.4	4168.7	4192.6	4216.6
62.5°	4995.9	5036.4	4926.5	4759.5	4612.7	4514.4	4537.8	4562.9
65°	4871.2	5287.0	5384.6	5215.8	5012.5	4859.6	4849.7	4862.6
67.5°	4071.6	4879.2	5468.2	5629.1	5459.0	5246.5	5207.2	5226.2
70°	2723.6	3729.6	4768.7	5542.5	5748.2	5665.9	5627.2	5638.9
72.5°	1308.1	2172.2	3235.2	4263.9	4890.3	5177.7	5269.8	5314.6
75°	478.4	862.2	1559.3	2349.6	2836.6	3283.7	3575.4	3694.6
77.5°	288.6	348.2	498.1	749.8	849.3	950.7	911.4	931.0
80°	213.7	241.4	273.3	307.1	318.1	318.1	305.8	296.0
82.5°	149.8	167.7	183.0	201.4	206.3	197.1	162.1	129.0
85°	96.4	104.4	111.2	122.8	119.8	114.2	76.8	68.2
87.5°	44.2	50.4	52.8	58.3	55.9	53.4	38.1	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)