

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: P299018

Luminaire Tested: **GLNA-AF-08-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-T2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29727.7 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

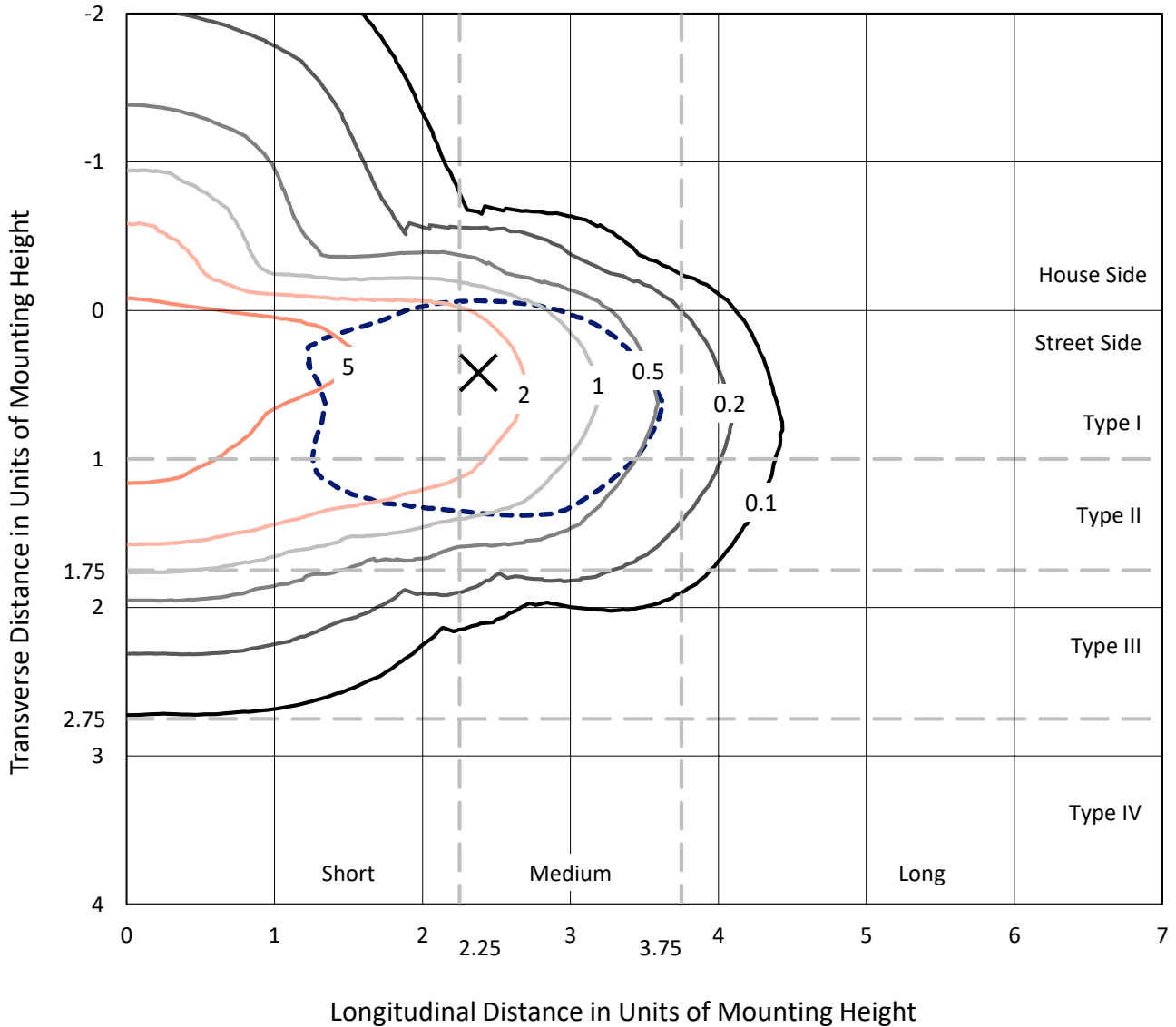


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Iso-Footcandle Lines of Horizontal Illumination

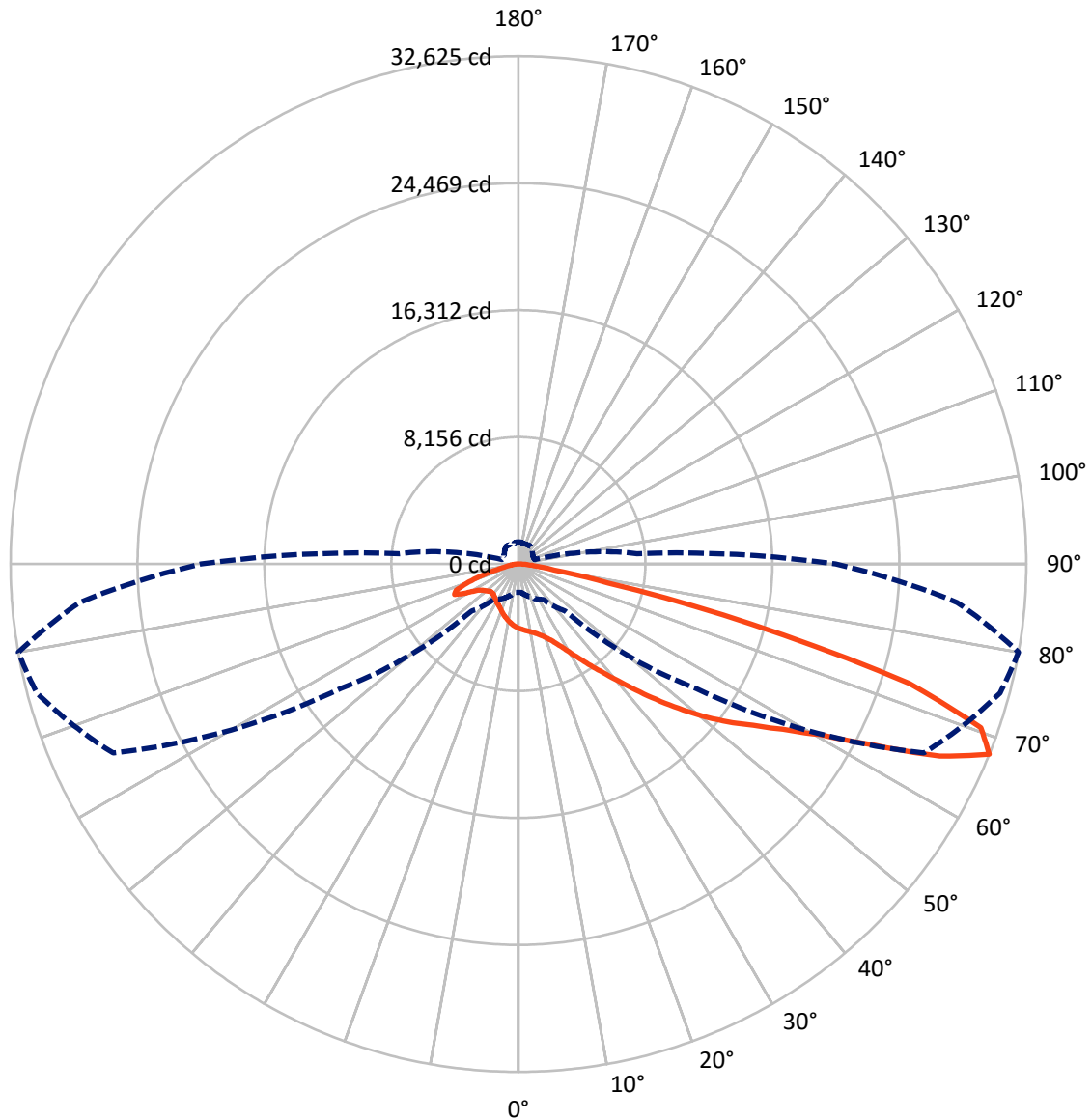
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5474.7	0.0	5474.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	24253.0	0.0	24253.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	29727.7	0.0	29727.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.0	1.3
10°-20°	1097.5	3.7
20°-30°	1816.6	6.1
30°-40°	2971.5	10.0
40°-50°	4797.7	16.1
50°-60°	6926.5	23.3
60°-70°	7643.8	25.7
70°-80°	3523.3	11.9
80°-90°	569.9	1.9
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°	29727.7	100.0
0°-180°	29727.7	100.0



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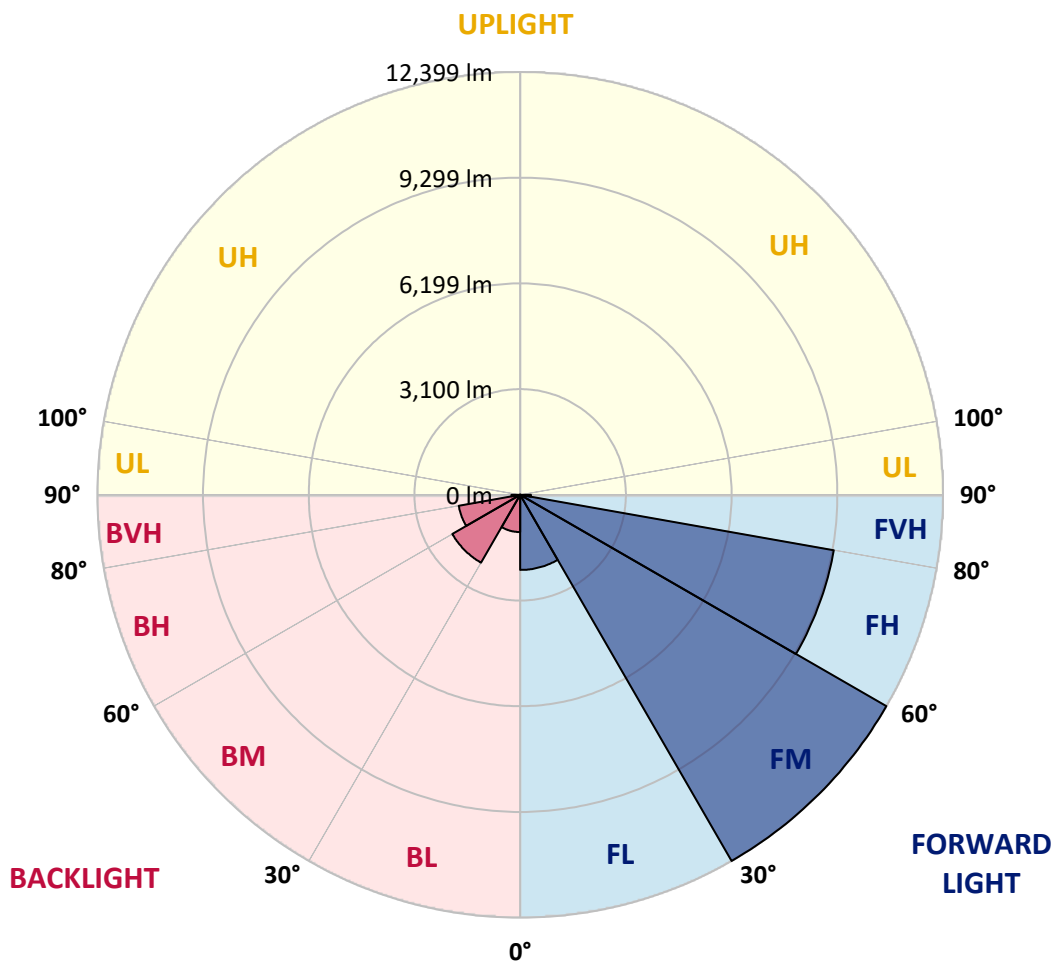
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2202.8	7.4			
FM	(30°-60°)	12398.7	41.7			
FH	(60°-80°)	9338.3	31.4			G4/12000
FVH	(80°-90°)	313.3	1.1			G3/500
BL	(0°-30°)	1092.3	3.7	B3/2500		
BM	(30°-60°)	2297.0	7.7	B2/2500		
BH	(60°-80°)	1828.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	256.6	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0
2.5°	4517.9	4491.5	4495.9	4488.6	4466.7	4428.6	4387.6	4313.0	4235.4	4194.4	4162.2
5°	4895.5	4888.1	4877.9	4854.5	4798.9	4719.8	4621.8	4490.1	4348.1	4273.5	4201.8
7.5°	5177.9	5173.5	5160.4	5145.7	5091.6	4996.4	4848.6	4661.3	4454.9	4352.5	4241.3
10°	5201.3	5208.7	5218.9	5258.4	5265.7	5214.5	5063.8	4836.9	4566.2	4434.5	4292.5
12.5°	5002.3	5018.4	5057.9	5158.9	5265.7	5328.7	5251.1	5021.3	4696.4	4536.9	4356.9
15°	4738.9	4747.7	4795.9	4935.0	5126.7	5321.3	5394.5	5224.8	4864.7	4668.6	4453.5
17.5°	4626.2	4630.6	4664.2	4756.4	4935.0	5213.0	5475.0	5445.7	5071.1	4832.5	4572.0
20°	4569.1	4579.3	4627.6	4718.4	4831.1	5074.0	5486.7	5684.3	5317.0	5037.4	4721.3
22.5°	4731.6	4727.2	4744.7	4790.1	4885.2	5031.6	5477.9	5930.2	5630.2	5300.9	4916.0
25°	5110.6	5126.7	5096.0	5044.7	5075.5	5177.9	5524.8	6196.5	6022.4	5638.9	5170.6
27.5°	5650.6	5634.5	5589.2	5469.2	5406.2	5450.1	5679.9	6483.4	6509.7	6083.8	5507.2
30°	6189.2	6176.0	6132.1	5985.8	5857.0	5820.4	5981.4	6812.7	7090.7	6618.0	5919.9
32.5°	6748.3	6733.6	6692.7	6546.3	6391.2	6306.3	6410.2	7193.2	7775.7	7256.1	6405.8
35°	7437.6	7409.8	7323.4	7120.0	6967.8	6901.9	6950.2	7671.8	8566.0	8011.3	6995.6
37.5°	8085.9	8128.4	8040.6	7759.6	7562.0	7538.6	7592.7	8255.7	9417.7	8855.7	7673.2
40°	8737.2	8744.5	8665.5	8435.7	8232.3	8194.2	8330.3	8964.0	10423.2	9865.6	8497.2
42.5°	9410.4	9425.1	9291.9	9079.7	8930.4	8937.7	9092.8	9793.9	11576.4	11055.4	9445.5
45°	10208.0	10230.0	10083.6	9805.6	9669.5	9943.1	9878.7	10724.7	12840.9	12407.7	10534.4
47.5°	11042.2	11075.9	10964.7	10704.2	10534.4	10910.5	10664.7	11756.4	14202.0	13858.0	11730.1
50°	11497.4	11545.7	11654.0	11635.0	11598.4	11535.4	11541.3	12862.9	15605.5	15368.4	12959.4
52.5°	11253.0	11251.5	11646.7	12126.7	12638.9	12677.0	12609.7	14029.3	16916.8	16845.1	14117.1
55°	10134.9	10211.0	10809.5	11738.9	13138.0	14011.7	14210.8	15365.5	18204.7	18288.1	15292.3
57.5°	8273.3	8336.2	9144.1	10439.3	12464.8	14804.9	16488.0	17307.6	19644.8	20034.1	16856.8
60°	5611.1	5687.2	6543.4	8099.1	10652.9	14363.0	18655.5	20773.2	21368.8	22254.2	19052.1
62.5°	3297.3	3366.1	4064.2	5109.1	7500.5	12309.6	19606.7	25703.8	24107.1	25604.2	22400.6
65°	2269.9	2316.7	2656.3	3180.2	4310.1	8290.8	18427.1	29107.9	28320.5	29754.8	26283.3
67.5°	1826.5	1820.6	2089.9	2447.0	2774.8	4274.9	13934.2	28723.0	32026.2	32624.7	28298.6
70°	1504.5	1498.6	1681.6	1977.2	2217.2	2407.5	7589.8	24238.8	31271.0	31513.9	26442.8
72.5°	1258.6	1264.5	1381.6	1601.1	1819.2	1813.3	3335.4	17051.4	24600.3	26280.4	21079.0
75°	1062.5	1065.4	1143.0	1298.1	1476.7	1460.6	1808.9	9237.7	14300.0	15469.4	11684.7
77.5°	904.5	907.4	957.1	1043.5	1170.8	1165.0	1320.1	3991.0	5965.3	5892.1	3996.9
80°	806.4	806.4	829.8	845.9	916.2	889.8	979.1	1917.2	2521.6	2328.5	1595.2
82.5°	632.2	635.2	778.6	772.7	721.5	687.9	687.9	1129.8	1336.2	1235.2	933.7
85°	355.6	354.2	502.0	605.9	635.2	484.4	480.0	632.2	727.4	641.0	452.2
87.5°	152.2	155.1	232.7	269.3	360.0	301.5	297.1	326.4	370.3	320.5	209.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0	4130.0
2.5°	4131.5	4093.5	4010.0	3906.1	3812.5	3751.0	3695.4	3614.9	3619.3	3563.7	3522.7
5°	4128.6	4049.6	3856.4	3626.6	3405.6	3246.1	3126.1	3017.8	2991.4	2940.2	2909.5
7.5°	4131.5	4002.7	3677.8	3310.5	3036.8	2834.8	2732.4	2675.3	2662.1	2644.6	2646.0
10°	4141.8	3960.3	3481.7	3014.8	2728.0	2594.8	2569.9	2587.5	2608.0	2613.8	2615.3
12.5°	4165.2	3922.2	3266.6	2751.4	2534.8	2493.8	2536.3	2596.3	2635.8	2654.8	2653.4
15°	4217.9	3893.0	3060.2	2545.1	2428.0	2449.9	2529.0	2613.8	2670.9	2697.3	2698.7
17.5°	4274.9	3850.5	2848.0	2387.0	2348.9	2404.6	2502.6	2602.1	2672.4	2701.7	2707.5
20°	4349.6	3797.8	2625.6	2268.5	2274.3	2337.2	2429.4	2529.0	2606.5	2631.4	2643.1
22.5°	4447.6	3740.8	2430.9	2171.9	2189.4	2237.7	2309.4	2395.8	2463.1	2474.8	2485.1
25°	4579.3	3679.3	2275.8	2084.0	2091.4	2119.2	2167.5	2218.7	2265.5	2252.4	2262.6
27.5°	4756.4	3626.6	2160.2	2003.6	1990.4	1996.2	2021.1	2037.2	2062.1	2025.5	2029.9
30°	4964.3	3569.5	2070.9	1933.3	1896.7	1886.5	1892.3	1901.1	1920.1	1870.4	1863.1
32.5°	5205.7	3500.7	1987.5	1871.8	1820.6	1800.1	1803.1	1826.5	1899.6	1868.9	1852.8
35°	5486.7	3423.2	1899.6	1804.5	1769.4	1740.1	1737.2	1810.4	2028.4	2009.4	1994.8
37.5°	5816.0	3345.6	1811.8	1728.4	1731.3	1699.1	1688.9	1772.3	2053.3	1978.7	1968.4
40°	6234.6	3304.6	1737.2	1647.9	1684.5	1680.1	1659.6	1702.1	1889.4	1753.3	1735.7
42.5°	6752.7	3310.5	1681.6	1561.6	1628.9	1675.7	1643.5	1645.0	1712.3	1609.9	1593.8
45°	7392.2	3379.3	1642.1	1492.8	1566.0	1671.3	1637.7	1614.3	1620.1	1566.0	1557.2
47.5°	8138.6	3521.2	1614.3	1435.7	1506.0	1655.2	1636.2	1605.5	1592.3	1563.0	1555.7
50°	8968.4	3727.6	1593.8	1381.6	1451.8	1628.9	1637.7	1596.7	1582.1	1570.4	1566.0
52.5°	9783.6	3963.2	1563.0	1334.7	1409.4	1596.7	1642.1	1587.9	1571.8	1563.0	1558.6
55°	10692.5	4257.4	1516.2	1295.2	1374.2	1555.7	1642.1	1574.7	1557.2	1558.6	1557.2
57.5°	11920.4	4733.0	1460.6	1261.6	1331.8	1506.0	1614.3	1560.1	1538.2	1539.6	1541.1
60°	13839.0	5571.6	1393.3	1227.9	1279.1	1447.4	1576.2	1527.9	1506.0	1511.8	1513.3
62.5°	16660.7	6802.4	1305.5	1178.1	1223.5	1384.5	1523.5	1486.9	1465.0	1479.6	1479.6
65°	19593.6	7888.4	1197.2	1115.2	1165.0	1315.7	1457.7	1435.7	1413.8	1447.4	1446.0
67.5°	20382.4	7645.4	1088.9	1046.4	1106.4	1239.6	1378.6	1366.9	1355.2	1413.8	1410.8
70°	18106.6	6138.0	989.3	976.2	1042.0	1157.6	1293.7	1293.7	1286.4	1330.3	1320.1
72.5°	13795.1	4352.5	894.2	901.5	968.8	1068.4	1201.5	1211.8	1200.1	1222.0	1213.3
75°	7384.9	2490.9	799.1	819.6	878.1	977.6	1099.1	1109.3	1102.0	1100.6	1105.0
77.5°	2454.3	1217.6	699.6	731.8	783.0	884.0	992.3	1008.4	990.8	987.9	986.4
80°	1093.2	765.4	589.8	632.2	677.6	777.1	879.6	892.7	873.7	900.1	866.4
82.5°	702.5	503.5	472.7	519.5	563.5	670.3	766.9	769.8	752.2	873.7	744.9
85°	341.0	311.7	355.6	398.1	436.1	526.9	635.2	636.6	592.7	540.0	521.0
87.5°	169.8	181.5	237.1	275.1	294.2	361.5	462.5	453.7	434.7	395.1	364.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)