

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: P298946

Luminaire Tested: **GLNA-AF-06-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298946
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-06-LED-E1-T2-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27207.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

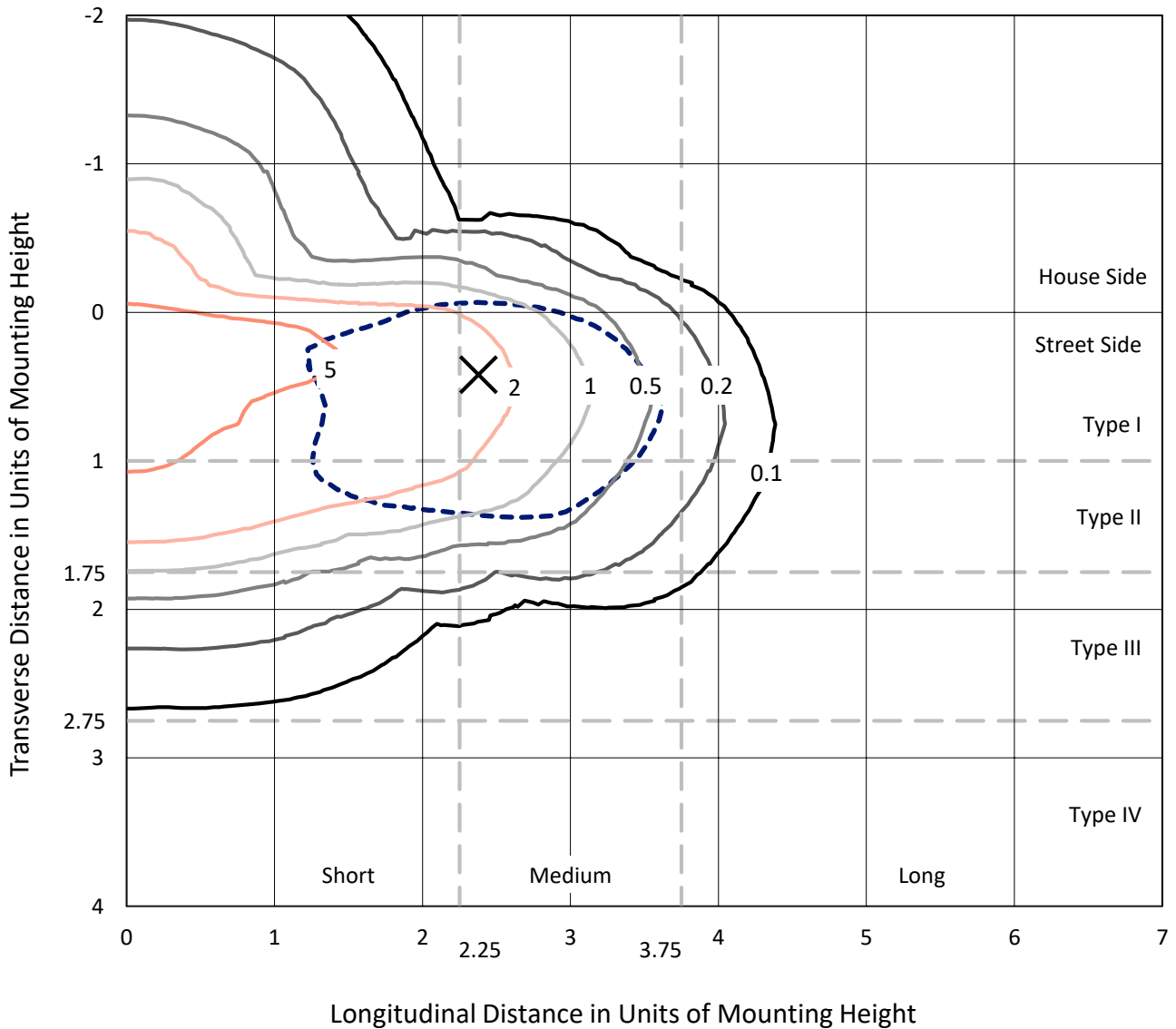


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

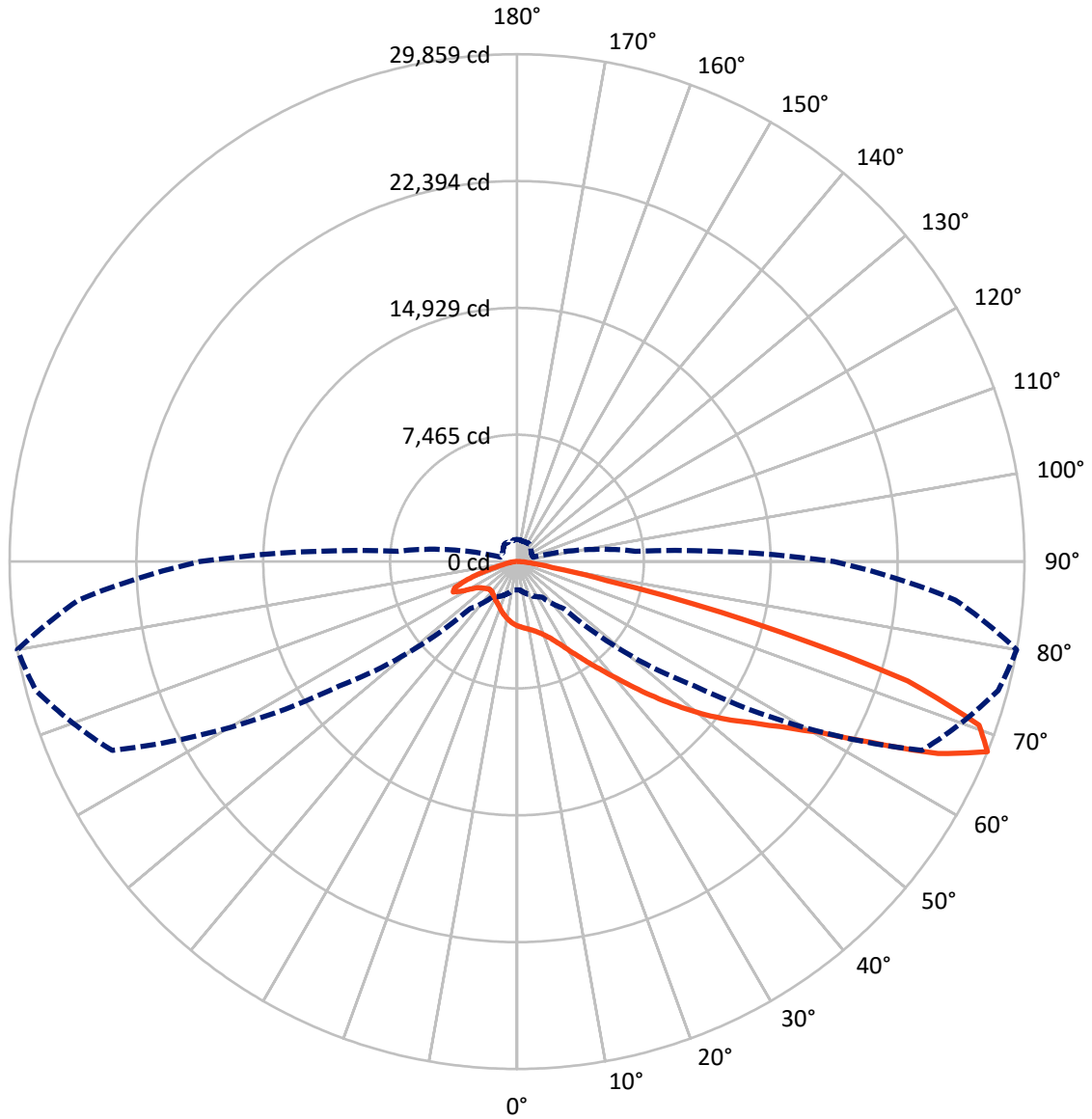


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - Full Cutoff

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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	5010.6	0.0	5010.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	22196.9	0.0	22196.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	27207.5	0.0	27207.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	1.3
10°-20°	1004.4	3.7
20°-30°	1662.6	6.1
30°-40°	2719.5	10.0
40°-50°	4391.0	16.1
50°-60°	6339.3	23.3
60°-70°	6995.8	25.7
70°-80°	3224.6	11.9
80°-90°	521.6	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°	27207.5	100.0
0°-180°	27207.5	100.0



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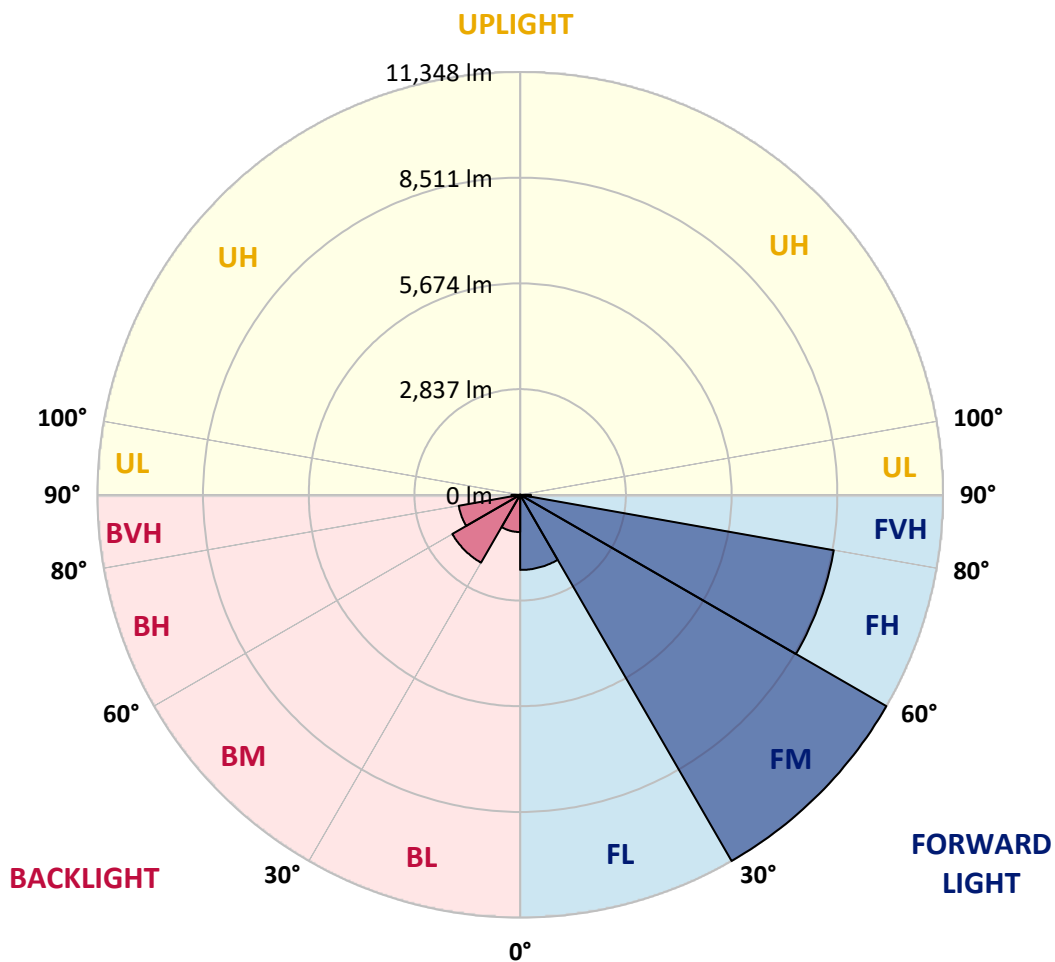
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2016.0	7.4			
FM	(30°-60°)	11347.6	41.7			
FH	(60°-80°)	8546.6	31.4			G4/12000
FVH	(80°-90°)	286.7	1.1			G3/500
BL	(0°-30°)	999.7	3.7	B2/1000		
BM	(30°-60°)	2102.3	7.7	B2/2500		
BH	(60°-80°)	1673.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	234.8	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°	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9
2.5°	4134.9	4110.8	4114.8	4108.1	4088.0	4053.2	4015.7	3947.3	3876.4	3838.9	3809.4
5°	4480.4	4473.8	4464.4	4442.9	4392.0	4319.7	4230.0	4109.4	3979.5	3911.2	3845.6
7.5°	4739.0	4734.9	4722.9	4709.5	4659.9	4572.9	4437.6	4266.1	4077.3	3983.5	3881.7
10°	4760.4	4767.1	4776.5	4812.6	4819.3	4772.4	4634.5	4426.9	4179.1	4058.5	3928.6
12.5°	4578.2	4593.0	4629.1	4721.5	4819.3	4876.9	4805.9	4595.6	4298.3	4152.3	3987.5
15°	4337.1	4345.2	4389.4	4516.6	4692.1	4870.2	4937.2	4781.8	4452.3	4272.8	4075.9
17.5°	4234.0	4238.0	4268.8	4353.2	4516.6	4771.1	5010.9	4984.1	4641.2	4422.9	4184.4
20°	4181.8	4191.1	4235.3	4318.4	4421.5	4643.9	5021.6	5202.4	4866.2	4610.4	4321.1
22.5°	4330.4	4326.4	4342.5	4384.0	4471.1	4605.0	5013.5	5427.4	5152.9	4851.5	4499.2
25°	4677.3	4692.1	4664.0	4617.1	4645.2	4739.0	5056.4	5671.2	5511.8	5160.9	4732.3
27.5°	5171.6	5156.9	5115.3	5005.5	4947.9	4988.1	5198.4	5933.7	5957.9	5568.1	5040.3
30°	5664.5	5652.5	5612.3	5478.3	5360.5	5327.0	5474.3	6235.1	6489.6	6057.0	5418.1
32.5°	6176.2	6162.8	6125.3	5991.3	5849.4	5771.7	5866.8	6583.4	7116.5	6641.0	5862.8
35°	6807.1	6781.6	6702.6	6516.4	6377.1	6316.8	6361.0	7021.4	7839.8	7332.1	6402.6
37.5°	7400.4	7439.3	7358.9	7101.7	6920.9	6899.5	6949.0	7555.8	8619.3	8105.0	7022.7
40°	7996.5	8003.2	7930.9	7720.6	7534.4	7499.6	7624.1	8204.1	9539.5	9029.2	7776.8
42.5°	8612.6	8626.0	8504.1	8309.9	8173.3	8180.0	8322.0	8963.6	10595.0	10118.2	8644.8
45°	9342.6	9362.7	9228.8	8974.3	8849.7	9100.2	9041.3	9815.5	11752.3	11355.8	9641.3
47.5°	10106.1	10136.9	10035.1	9796.7	9641.3	9985.6	9760.5	10759.8	12998.0	12683.2	10735.7
50°	10522.7	10566.9	10666.0	10648.6	10615.1	10557.5	10562.9	11772.4	14282.5	14065.5	11860.8
52.5°	10299.0	10297.7	10659.3	11098.7	11567.5	11602.3	11540.7	12839.9	15482.7	15417.0	12920.3
55°	9275.7	9345.3	9893.2	10743.7	12024.2	12823.9	13006.0	14062.8	16661.4	16737.7	13995.9
57.5°	7571.9	7629.5	8368.9	9554.3	11408.1	13549.8	15090.2	15840.3	17979.4	18335.7	15427.7
60°	5135.4	5205.1	5988.7	7412.5	9749.8	13145.3	17073.9	19012.1	19557.3	20367.6	17436.9
62.5°	3017.8	3080.7	3719.6	4676.0	6864.7	11266.1	17944.6	23524.7	22063.4	23433.6	20501.6
65°	2077.5	2120.3	2431.1	2910.6	3944.7	7588.0	16865.0	26640.3	25919.6	27232.3	24055.1
67.5°	1671.6	1666.3	1912.7	2239.6	2539.6	3912.5	12752.9	26288.0	29311.1	29858.9	25899.5
70°	1377.0	1371.6	1539.0	1809.6	2029.3	2203.4	6946.4	22183.9	28620.0	28842.3	24201.1
72.5°	1151.9	1157.3	1264.4	1465.4	1664.9	1659.6	3052.6	15605.9	22514.8	24052.4	19292.0
75°	972.4	975.1	1046.1	1188.1	1351.5	1336.8	1655.6	8454.6	13087.7	14157.9	10694.1
77.5°	827.8	830.5	876.0	955.0	1071.6	1066.2	1208.2	3652.7	5459.6	5392.6	3658.0
80°	738.0	738.0	759.5	774.2	838.5	814.4	896.1	1754.7	2307.9	2131.1	1460.0
82.5°	578.6	581.3	712.6	707.2	660.3	629.5	629.5	1034.1	1222.9	1130.5	854.6
85°	325.5	324.1	459.4	554.5	581.3	443.4	439.3	578.6	665.7	586.7	413.9
87.5°	139.3	142.0	213.0	246.5	329.5	275.9	271.9	298.7	338.9	293.3	191.5
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°	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9
2.5°	3781.3	3746.4	3670.1	3575.0	3489.3	3433.0	3382.1	3308.4	3312.5	3261.6	3224.0
5°	3778.6	3706.2	3529.4	3319.1	3116.9	2970.9	2861.1	2761.9	2737.8	2690.9	2662.8
7.5°	3781.3	3663.4	3366.0	3029.8	2779.4	2594.5	2500.7	2448.5	2436.5	2420.4	2421.7
10°	3790.6	3624.5	3186.5	2759.3	2496.7	2374.8	2352.1	2368.1	2386.9	2392.3	2393.6
12.5°	3812.1	3589.7	2989.6	2518.2	2319.9	2282.4	2321.3	2376.2	2412.3	2429.8	2428.4
15°	3860.3	3562.9	2800.8	2329.3	2222.1	2242.2	2314.6	2392.3	2444.5	2468.6	2469.9
17.5°	3912.5	3524.1	2606.6	2184.6	2149.8	2200.7	2290.5	2381.5	2445.8	2472.6	2478.0
20°	3980.8	3475.9	2403.0	2076.1	2081.5	2139.1	2223.5	2314.6	2385.6	2408.3	2419.0
22.5°	4070.6	3423.6	2224.8	1987.7	2003.8	2048.0	2113.6	2192.7	2254.3	2265.0	2274.4
25°	4191.1	3367.4	2082.8	1907.4	1914.1	1939.5	1983.7	2030.6	2073.5	2061.4	2070.8
27.5°	4353.2	3319.1	1977.0	1833.7	1821.6	1827.0	1849.8	1864.5	1887.3	1853.8	1857.8
30°	4543.4	3266.9	1895.3	1769.4	1735.9	1726.5	1731.9	1739.9	1757.4	1711.8	1705.1
32.5°	4764.4	3204.0	1819.0	1713.2	1666.3	1647.5	1650.2	1671.6	1738.6	1710.5	1695.7
35°	5021.6	3133.0	1738.6	1651.5	1619.4	1592.6	1589.9	1656.9	1856.5	1839.1	1825.7
37.5°	5323.0	3062.0	1658.2	1581.9	1584.6	1555.1	1545.7	1622.1	1879.2	1810.9	1801.6
40°	5706.0	3024.5	1589.9	1508.2	1541.7	1537.7	1518.9	1557.8	1729.2	1604.7	1588.6
42.5°	6180.2	3029.8	1539.0	1429.2	1490.8	1533.7	1504.2	1505.5	1567.2	1473.4	1458.7
45°	6765.5	3092.8	1502.9	1366.2	1433.2	1529.6	1498.8	1477.4	1482.8	1433.2	1425.2
47.5°	7448.7	3222.7	1477.4	1314.0	1378.3	1514.9	1497.5	1469.4	1457.3	1430.5	1423.8
50°	8208.1	3411.6	1458.7	1264.4	1328.7	1490.8	1498.8	1461.3	1447.9	1437.2	1433.2
52.5°	8954.2	3627.2	1430.5	1221.6	1289.9	1461.3	1502.9	1453.3	1438.6	1430.5	1426.5
55°	9786.0	3896.4	1387.7	1185.4	1257.7	1423.8	1502.9	1441.2	1425.2	1426.5	1425.2
57.5°	10909.8	4331.8	1336.8	1154.6	1218.9	1378.3	1477.4	1427.9	1407.8	1409.1	1410.4
60°	12665.8	5099.3	1275.2	1123.8	1170.7	1324.7	1442.6	1398.4	1378.3	1383.6	1385.0
62.5°	15248.3	6225.7	1194.8	1078.3	1119.8	1267.1	1394.4	1360.9	1340.8	1354.2	1354.2
65°	17932.5	7219.6	1095.7	1020.7	1066.2	1204.2	1334.1	1314.0	1293.9	1324.7	1323.4
67.5°	18654.5	6997.3	996.5	957.7	1012.6	1134.5	1261.8	1251.0	1240.3	1293.9	1291.2
70°	16571.6	5617.6	905.5	893.4	953.7	1059.5	1184.1	1184.1	1177.4	1217.6	1208.2
72.5°	12625.6	3983.5	818.4	825.1	886.7	977.8	1099.7	1109.1	1098.3	1118.4	1110.4
75°	6758.8	2279.7	731.3	750.1	803.7	894.8	1005.9	1015.3	1008.6	1007.3	1011.3
77.5°	2246.3	1114.4	640.3	669.7	716.6	809.0	908.1	922.9	906.8	904.1	902.8
80°	1000.6	700.5	539.8	578.6	620.2	711.2	805.0	817.1	799.6	823.8	793.0
82.5°	642.9	460.8	432.6	475.5	515.7	613.5	701.9	704.5	688.5	799.6	681.8
85°	312.1	285.3	325.5	364.3	399.2	482.2	581.3	582.7	542.5	494.3	476.8
87.5°	155.4	166.1	217.0	251.8	269.2	330.8	423.3	415.2	397.8	361.7	333.5
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)