

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: P194115

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T4W-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34116 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

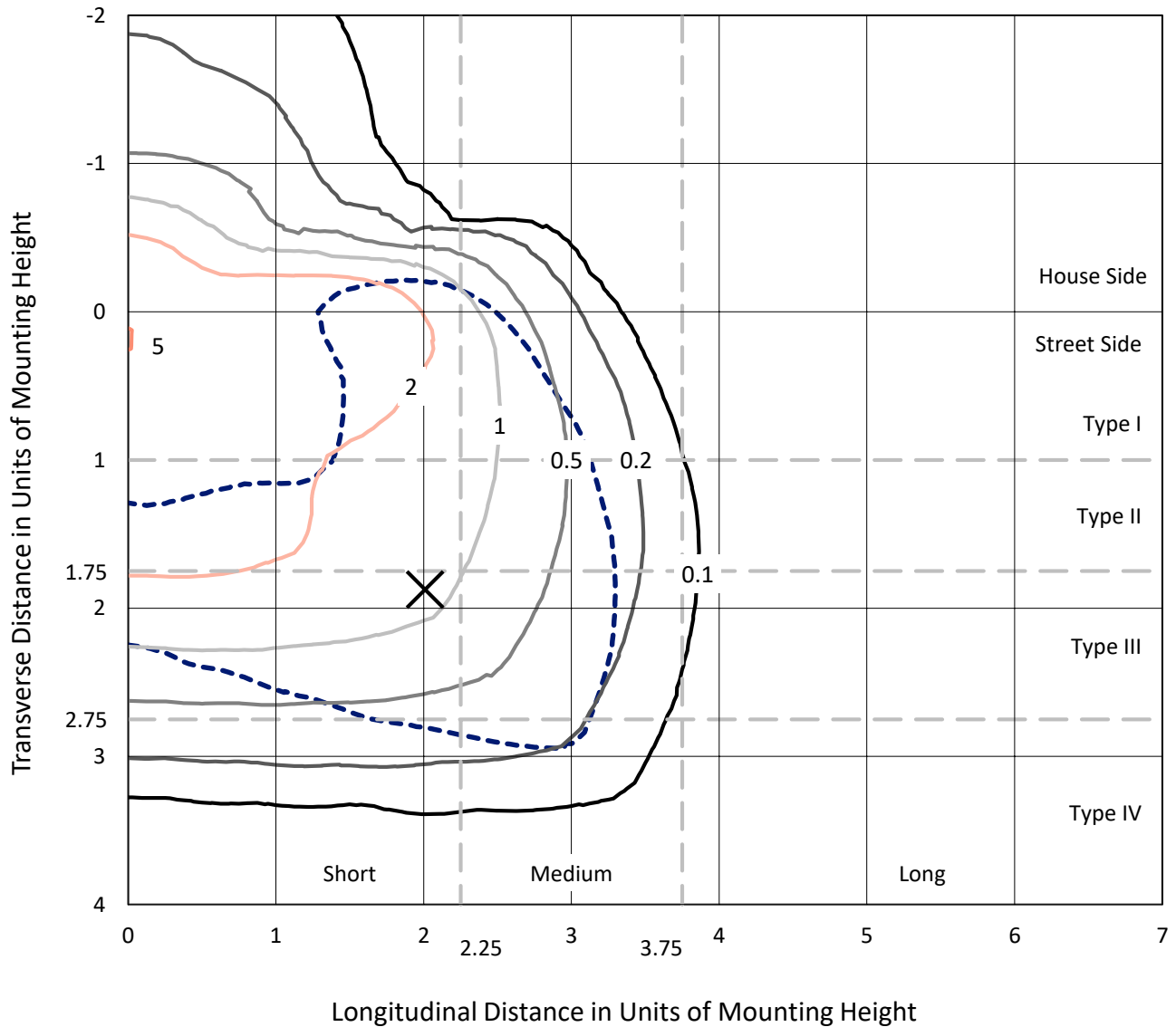
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

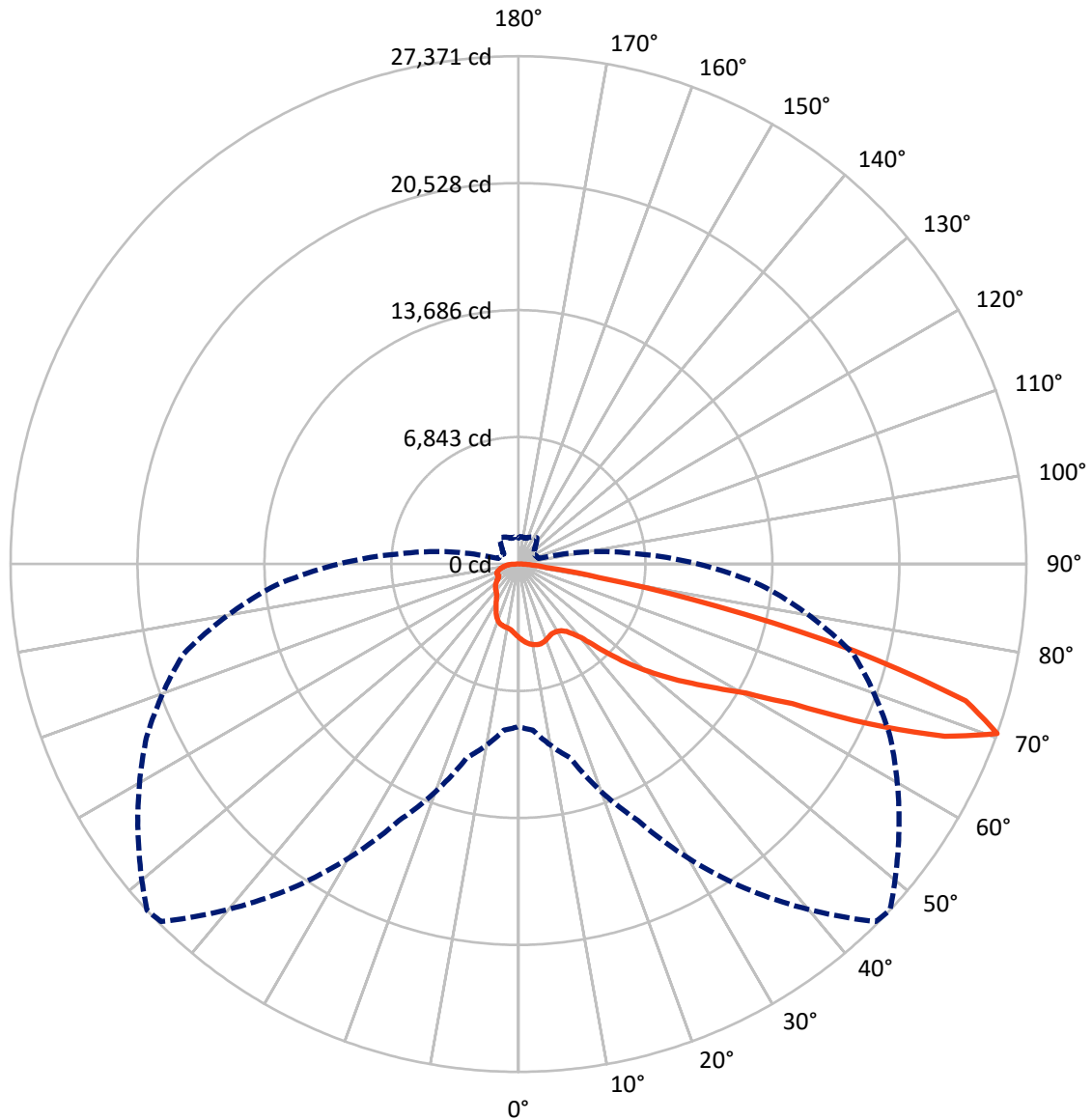
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7117.3	0.0	7117.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	26998.7	0.0	26998.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	34116.0	0.0	34116.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.3	1.1
10°-20°	1112.7	3.3
20°-30°	1643.2	4.8
30°-40°	2388.4	7.0
40°-50°	4298.3	12.6
50°-60°	7446.3	21.8
60°-70°	10628.0	31.2
70°-80°	5455.9	16.0
80°-90°	763.8	2.2
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°	34116.0	100.0
0°-180°	34116.0	100.0



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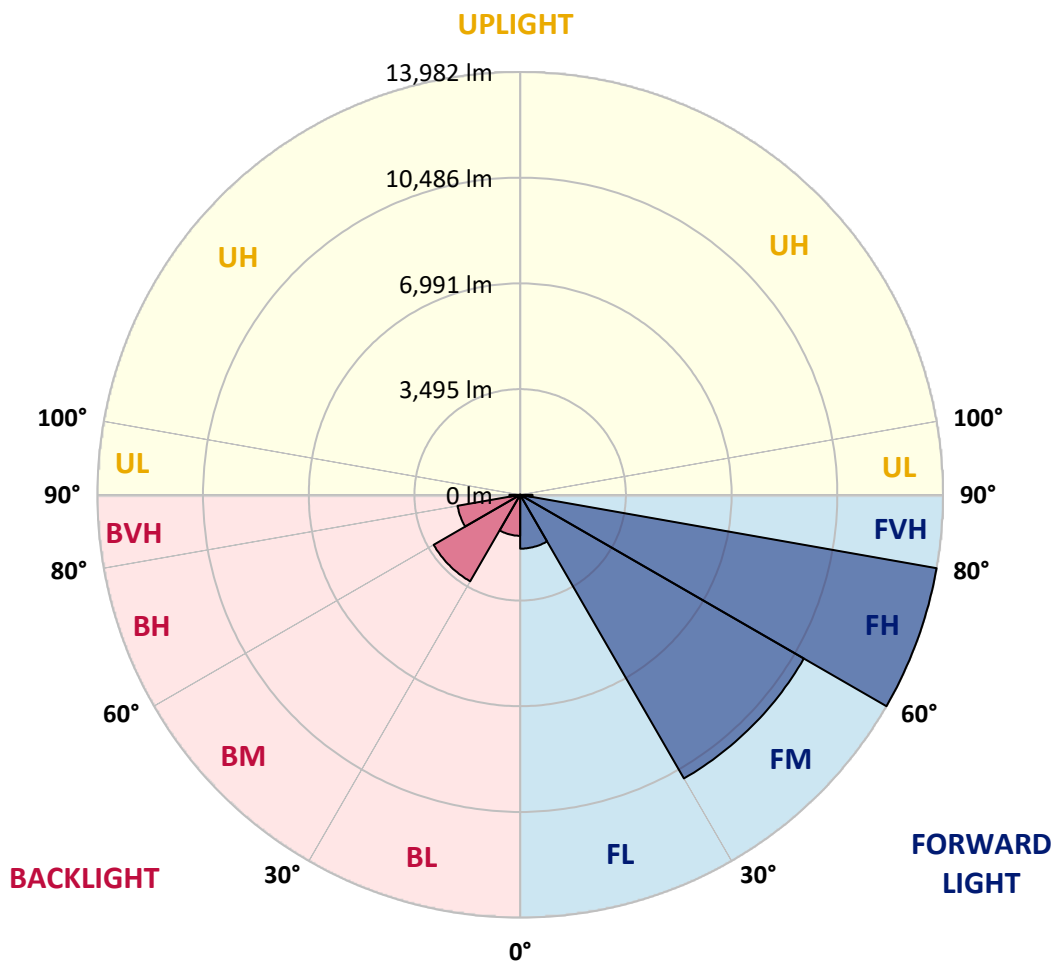
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1780.1	5.2			
FM	(30°-60°)	10829.4	31.7			
FH	(60°-80°)	13981.7	41.0			G5
FVH	(80°-90°)	407.6	1.2			G3/500
BL	(0°-30°)	1355.2	4.0	B3/2500		
BM	(30°-60°)	3303.6	9.7	B3/5000		
BH	(60°-80°)	2102.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	356.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5
2.5°	4190.9	4182.6	4179.3	4172.6	4164.3	4122.8	4114.5	4084.7	4043.2	4000.0	3955.2
5°	4466.4	4464.7	4446.5	4413.3	4360.2	4268.9	4247.3	4174.3	4076.4	3981.8	3887.1
7.5°	4708.7	4693.8	4658.9	4592.5	4499.6	4375.1	4345.2	4244.0	4109.6	3980.1	3852.3
10°	4886.3	4878.0	4801.7	4710.4	4589.2	4451.5	4416.6	4303.7	4156.0	3991.7	3832.4
12.5°	4987.6	4971.0	4883.0	4773.5	4629.1	4494.6	4459.8	4345.2	4179.3	3991.7	3804.2
15°	4980.9	4969.3	4881.3	4761.8	4615.8	4497.9	4466.4	4351.9	4174.3	3975.1	3767.6
17.5°	4848.1	4853.1	4778.4	4660.6	4541.1	4451.5	4423.2	4317.0	4141.1	3941.9	3724.5
20°	4615.8	4639.0	4589.2	4484.7	4418.3	4356.9	4338.6	4249.0	4089.6	3893.8	3678.0
22.5°	4383.4	4405.0	4385.1	4297.1	4287.1	4250.6	4240.7	4175.9	4044.8	3863.9	3649.8
25°	4212.5	4232.4	4229.1	4152.7	4182.6	4180.9	4172.6	4141.1	4034.9	3863.9	3654.8
27.5°	4166.0	4172.6	4166.0	4096.3	4137.8	4171.0	4164.3	4159.3	4064.7	3912.0	3717.9
30°	4325.3	4315.4	4263.9	4122.8	4161.0	4207.5	4200.8	4204.2	4154.4	4038.2	3858.9
32.5°	4961.0	4916.2	4753.5	4356.9	4255.6	4280.5	4283.8	4338.6	4346.9	4232.4	4078.0
35°	5912.1	5862.3	5651.5	4984.2	4549.4	4463.1	4463.1	4546.1	4595.9	4511.2	4418.3
37.5°	6919.5	6864.8	6751.9	5854.0	5166.8	4780.1	4771.8	4829.9	4901.3	4921.2	4944.4
40°	8064.8	8006.7	8038.2	6829.9	6028.2	5329.5	5211.6	5170.1	5362.7	5490.5	5676.4
42.5°	9317.9	9291.3	9302.9	7917.0	7009.1	6151.1	5983.4	5769.3	6001.7	6229.1	6619.1
45°	10478.0	10501.3	10489.7	9080.5	8101.3	7153.5	6976.0	6561.0	6788.4	7178.4	7814.1
47.5°	11493.8	11397.5	11546.9	10351.9	9324.5	8275.5	8056.5	7500.4	7731.1	8212.5	9288.0
50°	12727.0	12713.7	12494.6	12048.2	10803.4	9402.5	9115.4	8471.4	8829.9	9498.8	11145.3
52.5°	14023.3	13782.6	13581.8	13367.7	12371.8	10557.7	10205.8	9439.0	10121.2	10962.7	13409.2
55°	14288.8	14181.0	14429.9	14790.1	13883.9	11757.7	11347.8	10652.3	11575.1	12635.7	16020.0
57.5°	14856.5	14854.8	15369.3	16011.7	15440.7	13030.7	12617.5	12117.9	13210.0	14552.7	18791.8
60°	15239.9	15347.8	16303.8	17550.3	16969.3	14501.3	14121.2	13809.2	15068.9	16695.5	21374.3
62.5°	15440.7	15586.8	16891.3	18174.3	19130.3	16949.4	16569.3	16119.6	17528.7	19045.7	22884.7
65°	14605.9	14893.0	16800.1	18713.7	21022.5	20917.9	20746.9	19956.9	20604.2	20903.0	22338.7
67.5°	12295.5	12589.2	14810.0	18210.8	22373.5	24745.3	24781.8	23432.4	22496.3	21062.3	18781.8
70°	8760.2	8990.9	10828.2	15268.1	21344.5	27246.6	27371.0	25034.1	22119.6	18678.9	13122.0
72.5°	4159.3	4300.4	6039.9	9937.0	16937.8	24964.4	25205.1	22989.3	18808.4	13829.1	7158.5
75°	1528.6	1571.8	2041.5	4227.4	9824.1	18410.0	18693.8	16479.7	12468.1	6884.7	2727.0
77.5°	916.2	944.4	1145.2	1784.2	3863.9	10522.9	10942.8	8962.7	5449.0	2562.7	1341.1
80°	640.7	660.6	821.6	1110.4	1825.7	4010.0	4383.4	3658.1	2171.0	1621.6	975.9
82.5°	433.2	443.2	577.6	750.2	1213.3	1432.4	1545.2	1626.6	1463.9	1206.6	619.1
85°	283.8	293.8	391.7	494.6	771.8	740.3	756.8	957.7	1068.9	819.9	343.6
87.5°	162.7	169.3	235.7	263.9	378.4	313.7	317.0	504.6	683.8	552.7	209.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5
2.5°	3943.6	3922.0	3873.9	3844.0	3815.8	3809.1	3797.5	3795.9	3794.2	3794.2	3789.2
5°	3855.6	3819.1	3744.4	3702.9	3668.1	3664.7	3663.1	3671.4	3674.7	3678.0	3673.0
7.5°	3799.2	3749.4	3656.4	3596.7	3555.2	3545.2	3561.8	3600.0	3624.9	3634.9	3629.9
10°	3764.3	3702.9	3595.0	3530.3	3495.4	3490.5	3512.0	3556.9	3608.3	3628.2	3626.6
12.5°	3724.5	3654.8	3540.3	3472.2	3452.3	3462.3	3490.5	3532.0	3585.1	3616.6	3618.3
15°	3684.7	3603.3	3485.5	3425.7	3417.4	3430.7	3457.3	3488.8	3530.3	3561.8	3565.2
17.5°	3636.5	3551.9	3434.0	3372.6	3366.0	3372.6	3374.3	3390.9	3417.4	3447.3	3455.6
20°	3585.1	3498.8	3375.9	3314.5	3284.7	3258.1	3228.2	3231.5	3239.8	3269.7	3276.4
22.5°	3548.6	3462.3	3331.1	3246.5	3166.8	3087.1	3027.4	3019.1	3022.4	3047.3	3055.6
25°	3551.9	3460.6	3319.5	3173.5	2999.2	2871.4	2791.7	2778.4	2776.8	2795.0	2806.6
27.5°	3616.6	3525.3	3362.7	3098.8	2816.6	2627.4	2542.7	2532.8	2519.5	2524.5	2537.8
30°	3761.0	3676.4	3467.2	3022.4	2619.1	2388.4	2300.4	2290.5	2272.2	2263.9	2273.9
32.5°	3996.7	3927.0	3619.9	2949.4	2421.6	2184.2	2094.6	2073.0	2061.4	2051.5	2059.8
35°	4388.4	4358.5	3824.1	2869.7	2247.3	2026.6	1945.2	1912.0	1895.4	1913.7	1927.0
37.5°	5002.5	5019.1	4091.3	2745.2	2112.9	1922.0	1853.9	1815.8	1790.9	1805.8	1820.8
40°	5872.2	5883.8	4386.7	2569.3	1996.7	1860.6	1787.6	1752.7	1717.8	1691.3	1689.6
42.5°	7014.1	6896.3	4677.2	2378.4	1862.2	1822.4	1741.1	1697.9	1644.8	1571.8	1556.9
45°	8368.5	7955.2	4897.9	2159.3	1711.2	1775.9	1689.6	1629.9	1546.9	1467.2	1458.9
47.5°	9928.7	9092.1	5005.8	1932.0	1570.1	1707.9	1626.6	1532.0	1427.4	1387.6	1382.6
50°	11834.1	10441.5	5057.3	1711.2	1447.3	1618.3	1535.3	1424.1	1336.1	1327.8	1322.8
52.5°	14003.4	12064.8	5073.9	1530.3	1346.1	1502.1	1460.6	1352.7	1283.0	1289.6	1289.6
55°	16273.9	13741.1	4848.1	1399.2	1253.1	1382.6	1410.8	1324.5	1266.4	1292.9	1302.9
57.5°	18358.6	15226.6	4137.8	1297.9	1165.1	1291.3	1392.5	1351.0	1311.2	1419.1	1425.7
60°	19958.6	16104.6	3090.5	1206.6	1100.4	1259.8	1440.7	1452.3	1462.2	1719.5	1754.4
62.5°	20293.8	15812.5	2124.5	1135.3	1070.5	1286.3	1528.6	1530.3	1518.7	1697.9	1719.5
65°	18755.2	13965.2	1545.2	1095.4	1045.6	1334.4	1603.3	1568.5	1492.1	1628.2	1588.4
67.5°	14894.7	10521.2	1286.3	1065.6	1009.1	1331.1	1683.0	1603.3	1477.2	1595.0	1530.3
70°	9668.1	6361.8	1145.2	1040.7	966.0	1268.1	1729.5	1600.0	1434.0	1483.8	1407.5
72.5°	4717.0	2844.8	1050.6	1004.2	921.2	1180.1	1727.8	1570.1	1389.2	1385.9	1344.4
75°	1845.6	1302.9	964.3	949.4	844.8	1080.5	1681.3	1527.0	1336.1	1283.0	1268.1
77.5°	1080.5	929.5	854.8	868.1	753.5	980.9	1613.3	1452.3	1263.1	1200.0	1183.4
80°	786.7	695.4	728.6	750.2	644.0	881.3	1522.0	1361.0	1181.7	1213.3	1190.0
82.5°	504.6	448.1	590.9	612.4	536.1	780.1	1422.4	1264.7	1067.2	969.3	946.1
85°	257.3	283.8	439.8	466.4	413.3	640.7	1301.2	1136.9	937.8	806.6	819.9
87.5°	144.4	194.2	280.5	313.7	292.1	492.9	1055.6	937.8	765.1	622.4	547.7
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)