

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: P300329

Luminaire Tested: **GLNA-AF-06-LED-E1-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35694.5 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

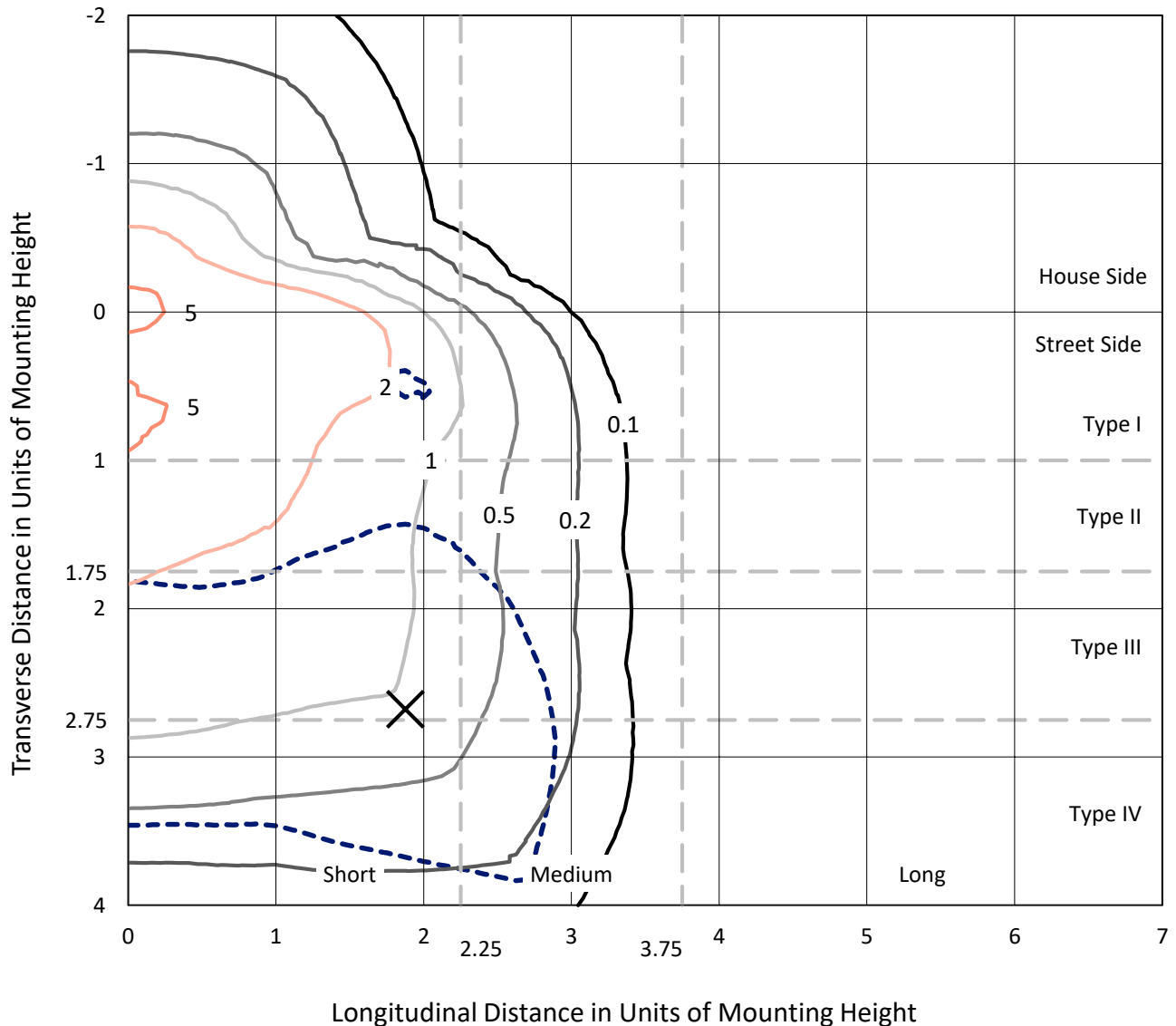


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

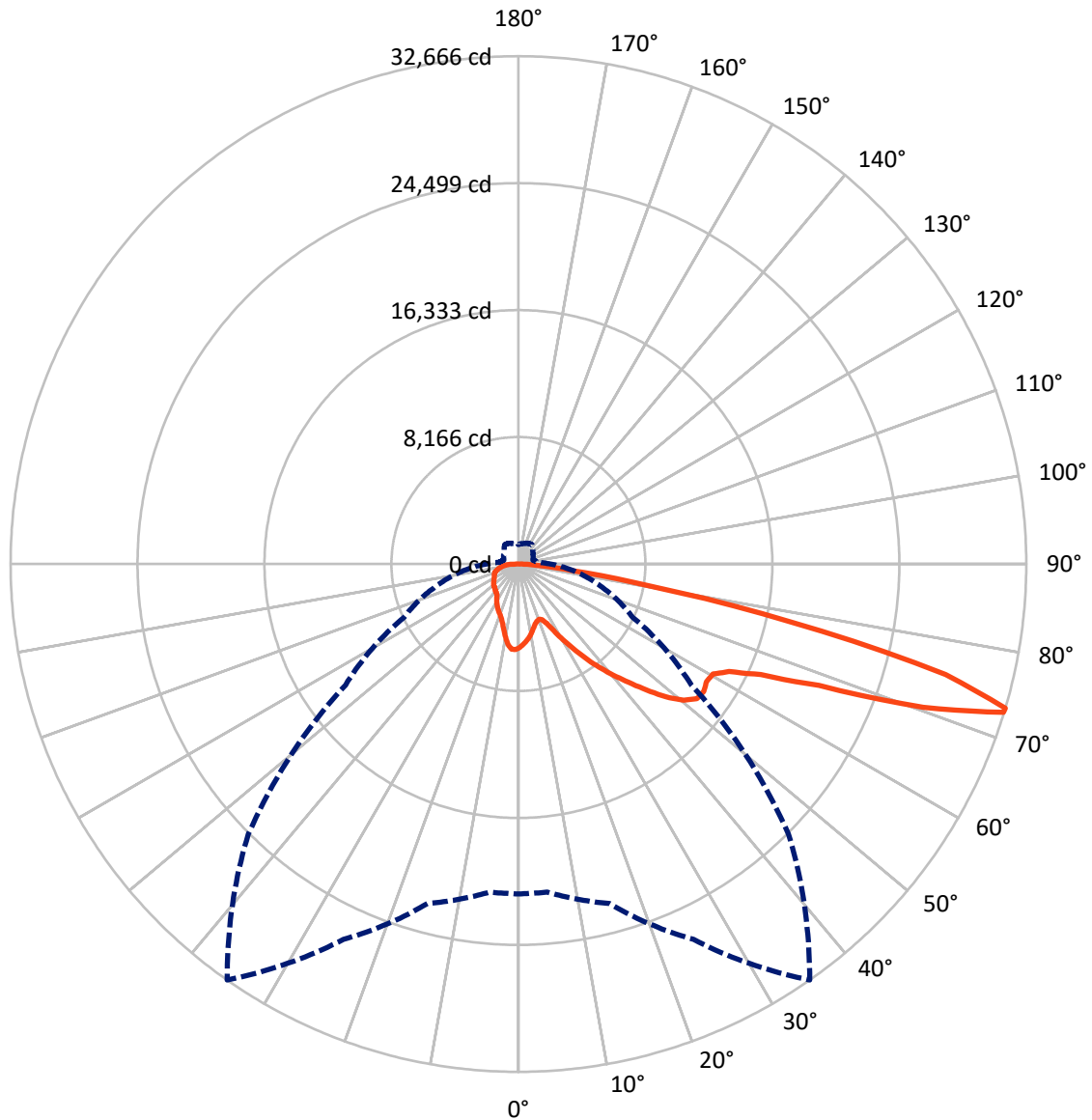


Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6807.9	0.0	6807.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	28886.6	0.0	28886.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	35694.5	0.0	35694.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.7	1.4
10°-20°	1217.3	3.4
20°-30°	1967.9	5.5
30°-40°	3299.9	9.2
40°-50°	5086.6	14.3
50°-60°	6824.2	19.1
60°-70°	9091.2	25.5
70°-80°	6933.8	19.4
80°-90°	785.9	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°	35694.5	100.0
0°-180°	35694.5	100.0

Coefficient of Utilization



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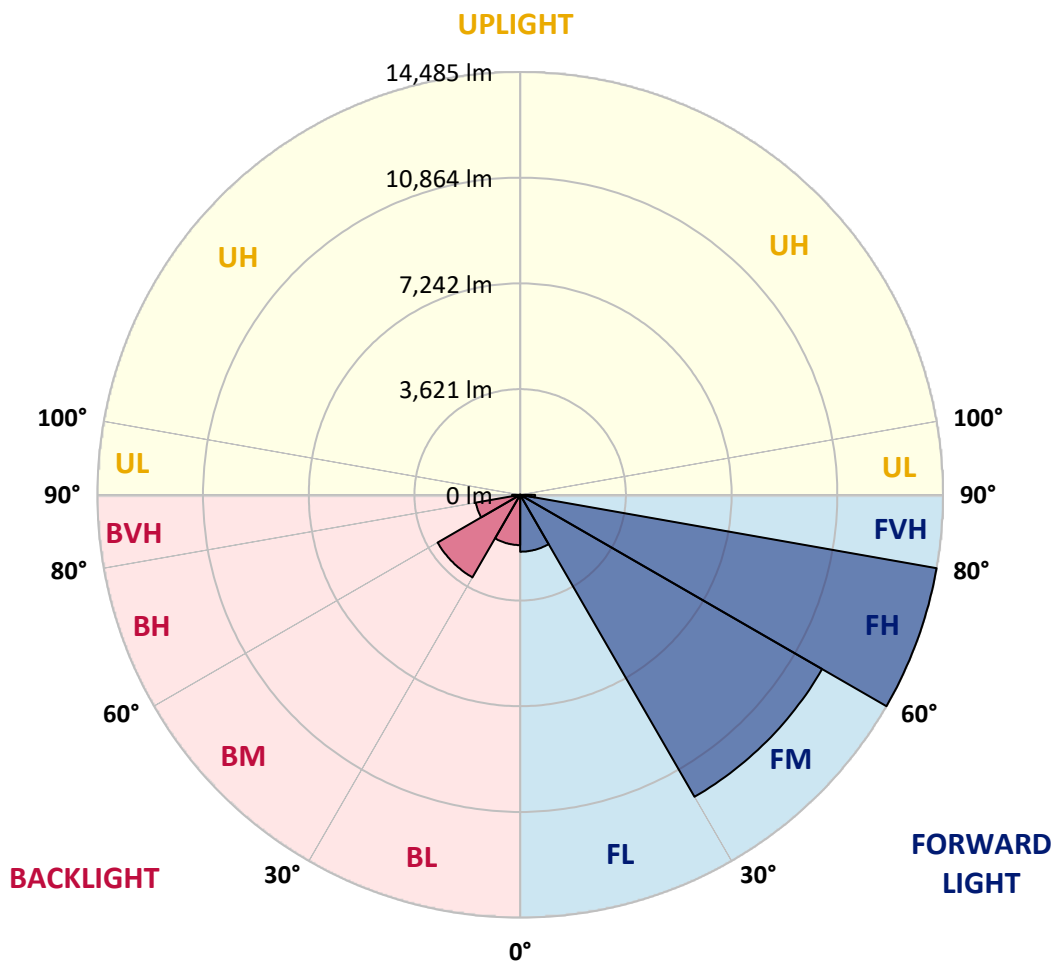
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1950.1	5.5			
FM	(30°-60°)	11943.6	33.5			
FH	(60°-80°)	14484.8	40.6			G5
FVH	(80°-90°)	508.0	1.4			G4/750
BL	(0°-30°)	1722.7	4.8	B3/2500		
BM	(30°-60°)	3267.0	9.2	B3/5000		
BH	(60°-80°)	1540.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	277.9	0.8			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°	55°	65°	75°	85°	90°
0°	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4
2.5°	5174.9	5185.2	5173.2	5188.6	5214.3	5241.7	5260.6	5288.0	5318.9	5361.7	5372.0
5°	4931.5	4946.9	4946.9	4974.3	5024.0	5068.6	5109.7	5154.3	5219.4	5293.1	5322.3
7.5°	4664.1	4672.6	4688.1	4729.2	4801.2	4864.6	4922.9	4994.9	5084.0	5181.7	5233.1
10°	4341.8	4353.8	4377.8	4436.1	4533.8	4621.2	4705.2	4804.6	4917.8	5039.5	5104.6
12.5°	4113.8	4110.4	4120.7	4163.5	4249.3	4355.5	4477.2	4604.1	4742.9	4885.2	4964.0
15°	4036.7	4017.8	3978.4	3968.1	4014.4	4120.7	4261.3	4417.2	4583.5	4754.9	4852.6
17.5°	4084.7	4052.1	3944.1	3865.3	3858.4	3939.0	4088.1	4263.0	4454.9	4664.1	4785.8
20°	4386.4	4309.2	4043.6	3860.2	3796.7	3836.2	3966.4	4151.5	4377.8	4655.5	4811.5
22.5°	5108.0	4994.9	4430.9	4089.8	3875.6	3827.6	3925.3	4122.4	4386.4	4761.8	4960.6
25°	6158.8	5997.6	5096.0	4662.4	4220.1	3964.7	3987.0	4189.3	4508.1	5008.6	5248.6
27.5°	6988.4	6883.8	5965.1	5469.7	4847.5	4335.0	4187.5	4357.2	4756.6	5413.1	5658.2
30°	7482.0	7418.6	6894.1	6385.0	5648.0	4924.6	4571.5	4672.6	5145.7	5973.6	6175.9
32.5°	8054.6	8016.8	7759.7	7291.8	6511.9	5699.4	5180.0	5144.0	5666.8	6647.3	6739.8
35°	8647.6	8635.6	8484.8	8148.8	7439.2	6721.0	5987.3	5743.9	6234.2	7346.6	7288.4
37.5°	9199.6	9179.0	9091.6	8896.2	8409.4	7818.0	6810.1	6359.3	6846.1	8015.1	7756.3
40°	10216.0	10054.9	9754.9	9607.5	9389.8	8741.9	7463.2	6933.5	7480.3	8652.8	8160.8
42.5°	11455.3	11193.1	10634.3	10432.0	10401.2	9470.4	7908.9	7490.6	8119.7	9285.3	8558.5
45°	12430.6	12183.8	11702.2	11446.8	11559.9	10130.3	8356.2	8085.4	8777.9	9948.6	8968.2
47.5°	13471.1	13083.7	12446.1	12523.2	12770.0	10754.3	8812.2	8724.8	9499.5	10690.8	9477.3
50°	13508.8	13212.3	12932.9	13394.0	13777.9	11328.5	9383.0	9395.0	10382.3	11625.0	10154.3
52.5°	12725.5	12662.1	13106.0	13831.1	14384.7	11782.7	10032.6	10087.5	11511.9	12698.0	10898.2
55°	12451.2	12379.2	12891.7	13678.5	14467.0	12158.1	10737.1	10836.5	12878.0	13829.4	11623.3
57.5°	13119.7	12960.3	12994.6	13606.5	14266.5	12569.5	11505.0	11705.6	14362.4	14818.4	12089.5
60°	14988.1	14647.0	13999.1	13983.6	14374.4	13186.6	12392.9	12638.1	15905.1	15291.5	11907.8
62.5°	17608.9	17267.8	16054.3	15264.1	15205.8	14204.7	13483.1	13548.2	16796.5	14650.4	10798.8
65°	20445.8	20140.7	18784.8	17668.9	17130.7	15891.4	14749.8	13954.5	16505.1	12886.6	8858.5
67.5°	23889.4	23562.0	22396.4	21366.3	20848.6	18613.4	15639.4	13565.4	14655.6	9982.9	6367.9
70°	26297.7	25963.5	25504.1	26338.9	27605.6	22540.4	15754.3	11983.3	10946.2	6635.3	3832.7
72.5°	23155.8	22999.8	23838.0	27353.6	32629.6	24923.0	14240.7	8724.8	6357.6	3522.5	2218.0
73°	21215.4	21181.1	22610.7	26642.2	32665.6	24556.2	13577.4	8109.4	5452.6	3116.2	2027.8
75°	9580.1	9856.1	12989.4	20349.8	28380.3	20234.9	9556.1	4652.1	3080.2	2152.9	1530.7
77.5°	2302.0	2398.0	4064.1	9664.1	17922.6	12058.7	4329.8	2300.3	1969.5	1520.4	1117.6
80°	980.5	1013.0	1565.0	3570.5	8438.5	4856.0	1995.2	1541.0	1362.7	1061.0	783.3
82.5°	545.1	579.4	887.9	1619.8	3405.9	1655.8	1217.0	1073.0	896.5	639.4	509.1
85°	308.5	327.4	519.4	905.0	1443.3	665.1	728.5	713.1	505.7	329.1	250.3
87.5°	145.7	157.7	250.3	420.0	565.7	260.5	370.2	408.0	317.1	200.5	130.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4	5387.4
2.5°	5384.0	5414.8	5450.8	5469.7	5486.8	5507.4	5528.0	5528.0	5531.4	5533.1
5°	5346.3	5409.7	5466.3	5490.3	5495.4	5495.4	5490.3	5462.8	5438.8	5449.1
7.5°	5267.4	5360.0	5408.0	5399.4	5334.3	5258.9	5195.4	5118.3	5078.9	5072.0
10°	5154.3	5260.6	5269.1	5183.4	5022.3	4861.2	4727.5	4597.2	4535.5	4520.1
12.5°	5029.2	5126.9	5072.0	4895.5	4636.6	4401.8	4232.1	4100.1	4041.8	4026.4
15°	4928.0	4994.9	4856.0	4578.4	4252.7	4004.1	3863.6	3765.9	3724.7	3712.7
17.5°	4874.9	4888.6	4634.9	4259.5	3913.3	3705.9	3618.5	3572.2	3556.8	3548.2
20°	4900.6	4804.6	4424.1	3963.0	3635.6	3489.9	3469.3	3457.3	3453.9	3448.8
22.5°	5029.2	4778.9	4230.4	3681.9	3392.2	3328.8	3345.9	3344.2	3340.8	3337.4
25°	5258.9	4801.2	4041.8	3414.5	3188.2	3174.5	3205.4	3205.4	3191.7	3191.7
27.5°	5562.3	4847.5	3831.0	3160.8	3003.1	3004.8	3028.8	3022.0	3006.5	2996.2
30°	5932.5	4876.6	3584.2	2932.8	2830.0	2823.1	2830.0	2800.8	2754.6	2751.1
32.5°	6311.3	4840.6	3297.9	2730.6	2646.6	2631.1	2626.0	2584.9	2531.7	2516.3
35°	6654.1	4708.6	3006.5	2569.4	2471.7	2437.4	2461.4	2447.7	2399.7	2387.7
37.5°	6904.4	4463.5	2744.3	2427.2	2346.6	2338.0	2353.5	2358.6	2302.0	2290.0
40°	7072.4	4131.0	2519.7	2307.2	2322.6	2290.0	2238.6	2202.6	2185.5	2180.3
42.5°	7207.8	3784.7	2331.2	2250.6	2327.7	2233.5	2122.1	2063.8	2094.6	2108.3
45°	7363.8	3447.1	2173.5	2180.3	2302.0	2168.3	2041.5	1984.9	1996.9	2000.4
47.5°	7578.0	3035.7	2003.8	2067.2	2216.3	2123.8	1991.8	1911.2	1854.7	1828.9
50°	7874.6	2548.9	1827.2	1940.4	2132.3	2091.2	1914.6	1828.9	1724.4	1700.4
52.5°	8080.3	2094.6	1681.5	1834.1	2056.9	2026.1	1852.9	1741.5	1631.8	1611.3
55°	7968.8	1739.8	1554.7	1715.8	1957.5	1945.5	1801.5	1652.4	1566.7	1549.5
57.5°	7411.8	1515.3	1457.0	1604.4	1835.8	1876.9	1733.0	1577.0	1515.3	1503.3
60°	6349.0	1374.7	1395.3	1529.0	1736.4	1808.4	1664.4	1535.8	1494.7	1486.1
62.5°	4926.3	1280.4	1349.0	1474.1	1659.2	1760.4	1626.7	1530.7	1515.3	1505.0
65°	3529.3	1205.0	1299.3	1419.3	1589.0	1715.8	1613.0	1523.8	1527.3	1518.7
67.5°	2398.0	1138.2	1239.3	1357.6	1520.4	1676.4	1594.1	1499.8	1542.7	1532.4
70°	1678.1	1073.0	1169.0	1278.7	1434.7	1621.5	1559.8	1463.8	1460.4	1419.3
72.5°	1309.6	987.3	1073.0	1169.0	1325.0	1544.4	1491.3	1383.3	1326.7	1283.9
73°	1249.6	966.8	1049.0	1145.0	1301.0	1525.5	1472.4	1361.0	1297.6	1258.1
75°	1033.6	877.6	953.0	1038.7	1198.2	1436.4	1379.9	1259.9	1179.3	1155.3
77.5°	812.5	750.8	822.8	899.9	1055.9	1306.1	1242.7	1127.9	1083.3	1062.7
80°	601.6	622.2	685.6	754.2	915.3	1167.3	1110.7	995.9	1194.7	1145.0
82.5°	423.4	471.4	529.7	591.4	767.9	1031.9	963.3	845.1	874.2	726.8
85°	250.3	308.5	363.4	416.5	553.7	855.3	795.3	673.6	551.9	526.2
87.5°	145.7	171.4	186.8	241.7	380.5	644.5	560.5	498.8	286.3	193.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)