

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: P192346

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192346
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: GLEON-AF-08-LED-E1-T4FT-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52646 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

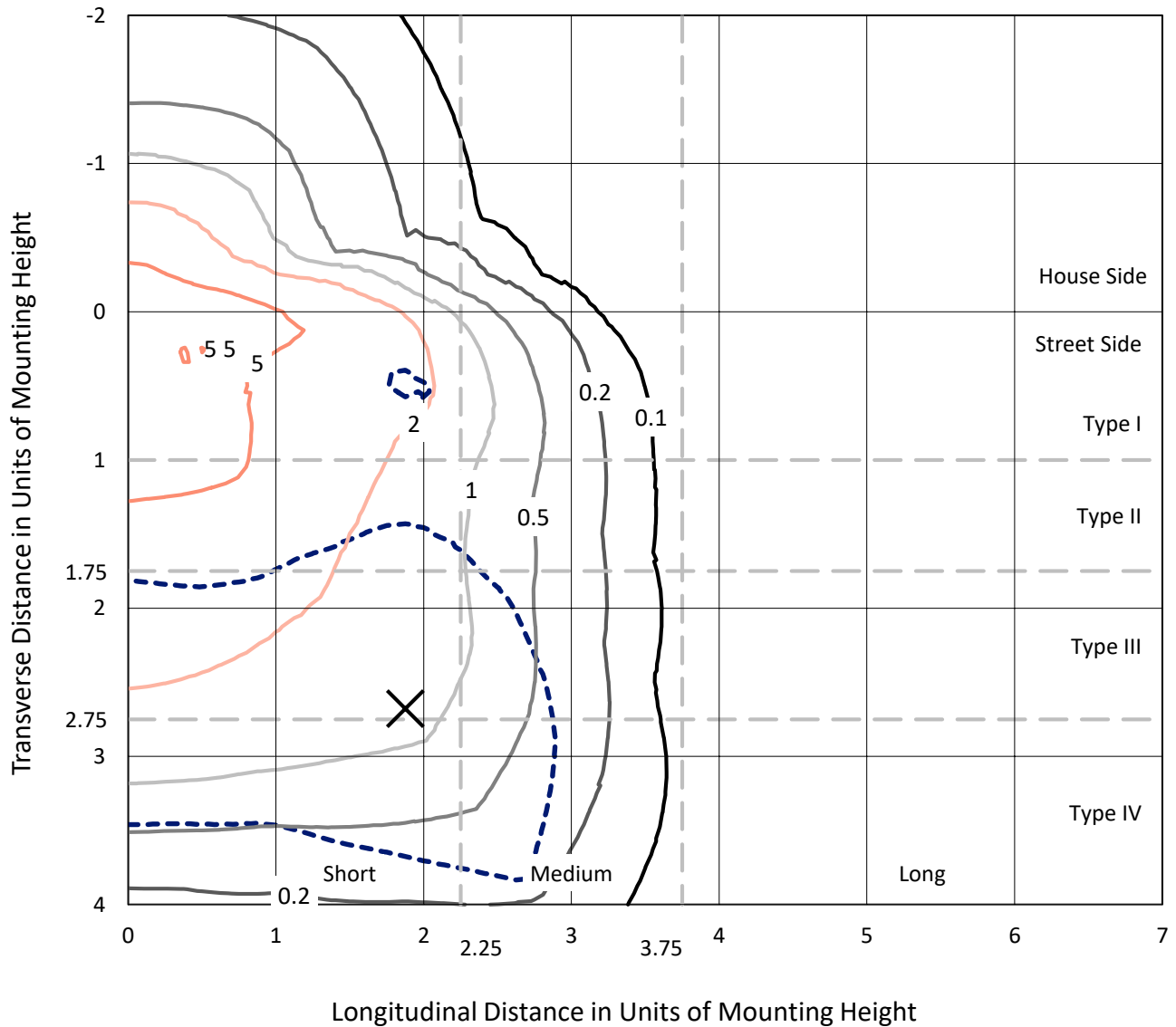


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

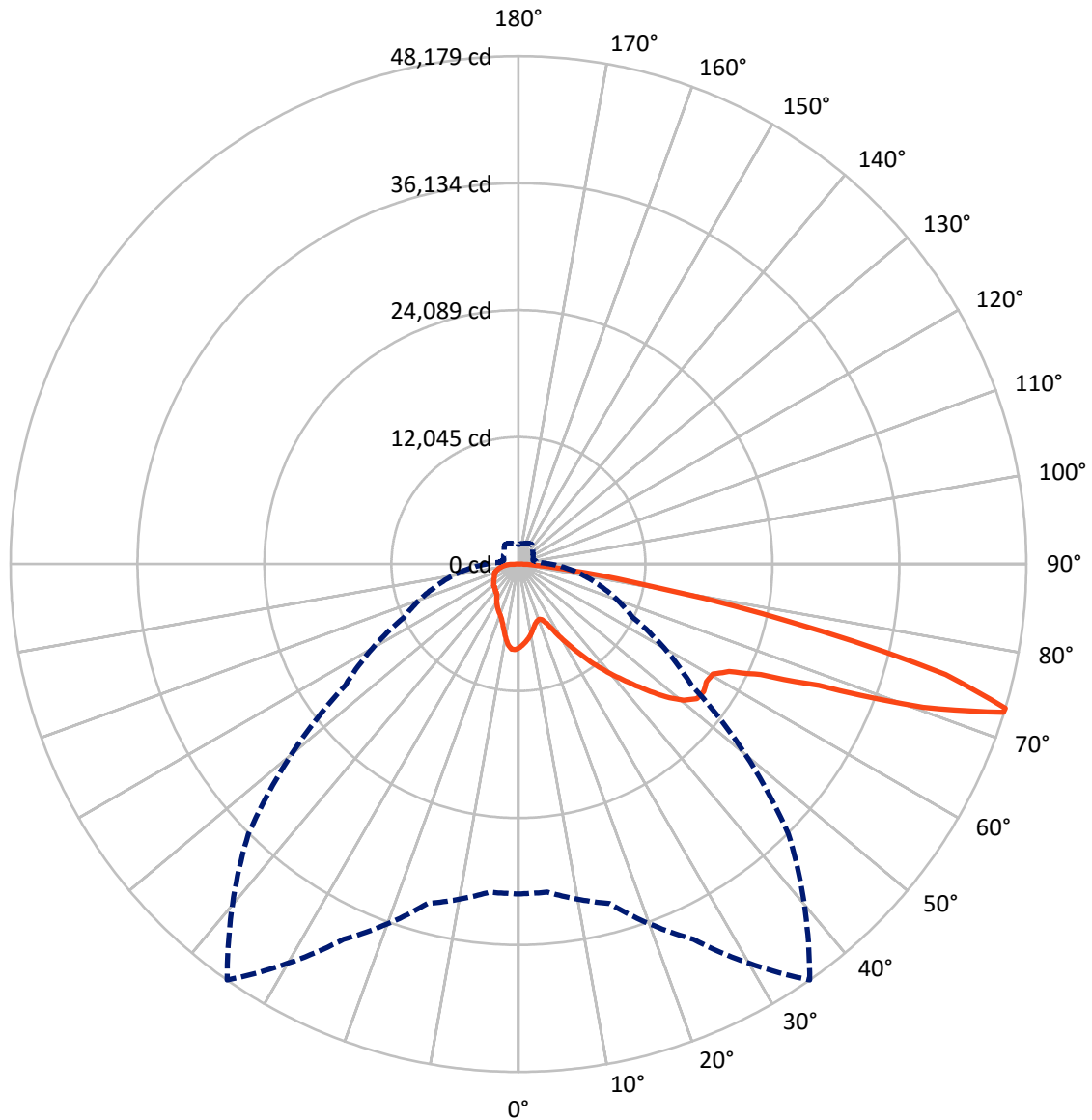


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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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	10041.0	0.0	10041.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	42605.0	0.0	42605.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	52646.0	0.0	52646.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.3	1.4
10°-20°	1795.3	3.4
20°-30°	2902.4	5.5
30°-40°	4867.0	9.2
40°-50°	7502.2	14.3
50°-60°	10065.1	19.1
60°-70°	13408.7	25.5
70°-80°	10226.8	19.4
80°-90°	1159.2	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°	52646.0	100.0
0°-180°	52646.0	100.0



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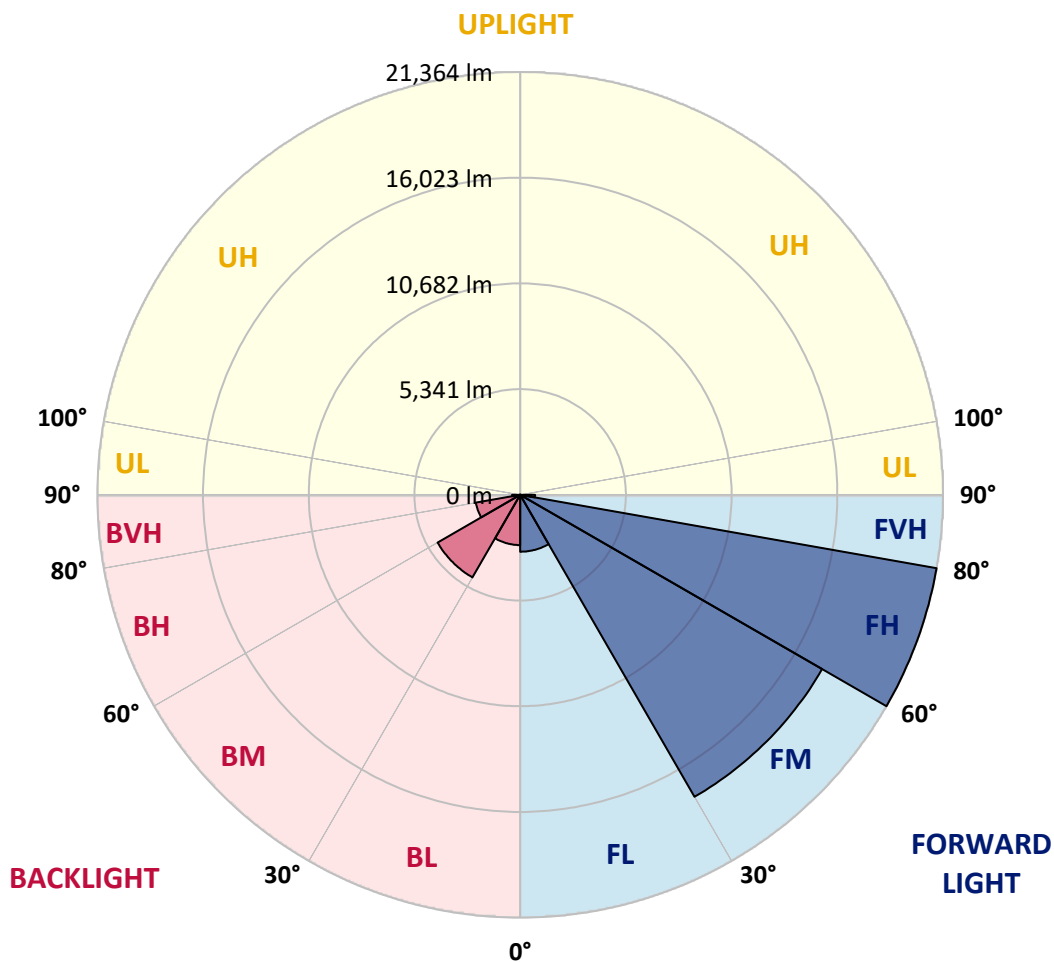
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2876.2	5.5			
FM	(30°-60°)	17615.7	33.5			
FH	(60°-80°)	21363.7	40.6			G5
FVH	(80°-90°)	749.3	1.4			G4/750
BL	(0°-30°)	2540.9	4.8	B4/5000		
BM	(30°-60°)	4818.6	9.2	B3/5000		
BH	(60°-80°)	2271.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	409.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9
2.5°	7632.4	7647.6	7629.9	7652.7	7690.6	7731.0	7758.8	7799.3	7844.8	7908.0	7923.2
5°	7273.4	7296.2	7296.2	7336.6	7410.0	7475.7	7536.4	7602.1	7698.2	7806.9	7849.8
7.5°	6879.0	6891.7	6914.4	6975.1	7081.3	7174.8	7260.8	7367.0	7498.4	7642.5	7718.4
10°	6403.8	6421.5	6456.8	6542.8	6686.9	6815.8	6939.7	7086.4	7253.2	7432.7	7528.8
12.5°	6067.5	6062.5	6077.6	6140.8	6267.2	6424.0	6603.5	6790.6	6995.3	7205.2	7321.5
15°	5953.7	5925.9	5867.8	5852.6	5920.9	6077.6	6284.9	6515.0	6760.2	7013.0	7157.1
17.5°	6024.5	5976.5	5817.2	5700.9	5690.8	5809.6	6029.6	6287.5	6570.6	6879.0	7058.5
20°	6469.5	6355.7	5963.9	5693.4	5599.8	5658.0	5850.1	6123.1	6456.8	6866.4	7096.5
22.5°	7533.8	7367.0	6535.2	6032.1	5716.1	5645.3	5789.4	6080.2	6469.5	7023.1	7316.4
25°	9083.6	8845.9	7516.1	6876.5	6224.3	5847.6	5880.4	6178.8	6649.0	7387.2	7741.1
27.5°	10307.2	10153.0	8797.9	8067.3	7149.6	6393.6	6176.2	6426.5	7015.6	7983.8	8345.4
30°	11035.3	10941.8	10168.1	9417.3	8330.2	7263.3	6742.5	6891.7	7589.5	8810.5	9108.9
32.5°	11879.7	11824.1	11444.9	10754.7	9604.4	8406.0	7640.0	7586.9	8358.0	9804.1	9940.6
35°	12754.4	12736.7	12514.3	12018.7	10972.1	9912.8	8830.8	8471.8	9194.8	10835.6	10749.6
37.5°	13568.5	13538.1	13409.2	13121.0	12403.0	11530.8	10044.3	9379.4	10097.4	11821.5	11439.8
40°	15067.7	14830.0	14387.6	14170.2	13849.1	12893.5	11007.5	10226.3	11032.8	12762.0	12036.4
42.5°	16895.5	16508.7	15684.5	15386.2	15340.7	13967.9	11664.8	11047.9	11975.8	13694.9	12623.0
45°	18334.0	17970.0	17259.6	16882.9	17049.7	14941.3	12324.6	11925.2	12946.6	14673.3	13227.2
47.5°	19868.6	19297.2	18356.8	18470.5	18834.6	15861.5	12997.1	12868.2	14010.9	15768.0	13978.0
50°	19924.2	19486.8	19074.8	19754.8	20321.1	16708.4	13839.0	13856.7	15312.9	17145.8	14976.7
52.5°	18768.8	18675.3	19330.1	20399.5	21216.1	17378.4	14797.2	14878.1	16978.9	18728.4	16073.9
55°	18364.3	18258.2	19014.1	20174.5	21337.4	17932.0	15836.2	15982.8	18993.9	20397.0	17143.3
57.5°	19350.3	19115.2	19165.8	20068.3	21041.6	18538.8	16968.8	17264.6	21183.2	21855.7	17830.9
60°	22106.0	21602.9	20647.2	20624.5	21200.9	19448.9	18278.4	18639.9	23458.5	22553.5	17562.9
62.5°	25971.5	25468.4	23678.5	22513.0	22427.1	20950.6	19886.3	19982.4	24773.2	21607.9	15927.2
65°	30155.6	29705.5	27705.8	26060.0	25266.1	23438.3	21754.6	20581.5	24343.4	19006.5	13065.4
67.5°	35234.6	34751.7	33032.6	31513.2	30749.7	27453.0	23066.7	20007.6	21615.5	14723.8	9392.0
70°	38786.6	38293.6	37616.1	38847.3	40715.6	33244.9	23236.1	17674.2	16144.6	9786.4	5652.9
72.5°	34152.5	33922.5	35158.7	40343.9	48125.5	36759.0	21003.7	12868.2	9376.8	5195.3	3271.4
73°	31290.7	31240.1	33348.6	39294.7	48178.6	36218.0	20025.3	11960.6	8042.0	4596.1	2990.8
75°	14129.7	14536.8	19158.2	30014.0	41858.3	29844.6	14094.3	6861.3	4543.1	3175.3	2257.6
77.5°	3395.3	3536.9	5994.2	14253.6	26434.1	17785.4	6386.1	3392.8	2904.8	2242.5	1648.3
80°	1446.1	1494.1	2308.2	5266.1	12446.0	7162.2	2942.7	2272.8	2009.9	1564.9	1155.4
82.5°	803.9	854.5	1309.6	2389.1	5023.4	2442.2	1795.0	1582.6	1322.2	943.0	750.9
85°	455.1	482.9	766.0	1334.9	2128.7	980.9	1074.5	1051.7	745.8	485.4	369.1
87.5°	214.9	232.6	369.1	619.4	834.3	384.3	546.1	601.7	467.7	295.8	192.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9	7945.9
2.5°	7940.9	7986.4	8039.5	8067.3	8092.5	8122.9	8153.2	8153.2	8158.3	8160.8
5°	7885.2	7978.8	8062.2	8097.6	8105.2	8105.2	8097.6	8057.2	8021.8	8036.9
7.5°	7768.9	7905.5	7976.3	7963.6	7867.5	7756.3	7662.8	7549.0	7490.9	7480.7
10°	7602.1	7758.8	7771.5	7645.1	7407.4	7169.8	6972.6	6780.4	6689.4	6666.7
12.5°	7417.5	7561.6	7480.7	7220.3	6838.6	6492.2	6242.0	6047.3	5961.3	5938.6
15°	7268.4	7367.0	7162.2	6752.6	6272.3	5905.7	5698.4	5554.3	5493.6	5475.9
17.5°	7190.0	7210.2	6836.1	6282.4	5771.7	5465.8	5336.9	5268.6	5245.9	5233.2
20°	7227.9	7086.4	6525.1	5845.0	5362.2	5147.3	5116.9	5099.2	5094.2	5086.6
22.5°	7417.5	7048.4	6239.4	5430.4	5003.2	4909.6	4934.9	4932.4	4927.3	4922.3
25°	7756.3	7081.3	5961.3	5036.0	4702.3	4682.1	4727.6	4727.6	4707.4	4707.4
27.5°	8203.8	7149.6	5650.4	4661.9	4429.3	4431.8	4467.2	4457.1	4434.3	4419.2
30°	8749.9	7192.5	5286.3	4325.6	4173.9	4163.8	4173.9	4131.0	4062.7	4057.7
32.5°	9308.6	7139.4	4864.1	4027.3	3903.4	3880.7	3873.1	3812.4	3734.1	3711.3
35°	9814.2	6944.8	4434.3	3789.7	3645.6	3595.0	3630.4	3610.2	3539.4	3521.7
37.5°	10183.3	6583.3	4047.5	3579.8	3461.0	3448.4	3471.1	3478.7	3395.3	3377.6
40°	10431.1	6092.8	3716.4	3402.9	3425.6	3377.6	3301.7	3248.6	3223.4	3215.8
42.5°	10630.8	5582.1	3438.3	3319.4	3433.2	3294.2	3129.8	3043.9	3089.4	3109.6
45°	10860.9	5084.1	3205.7	3215.8	3395.3	3198.1	3011.0	2927.6	2945.3	2950.3
47.5°	11176.9	4477.3	2955.4	3048.9	3268.9	3132.4	2937.7	2818.9	2735.4	2697.5
50°	11614.2	3759.3	2695.0	2861.8	3145.0	3084.3	2823.9	2697.5	2543.3	2507.9
52.5°	11917.6	3089.4	2480.1	2705.1	3033.8	2988.3	2732.9	2568.6	2406.8	2376.4
55°	11753.3	2566.1	2293.0	2530.7	2887.1	2869.4	2657.1	2437.1	2310.7	2285.4
57.5°	10931.6	2234.9	2148.9	2366.3	2707.6	2768.3	2555.9	2325.9	2234.9	2217.2
60°	9364.2	2027.6	2057.9	2255.1	2561.0	2667.2	2454.8	2265.2	2204.5	2191.9
62.5°	7265.8	1888.5	1989.6	2174.2	2447.2	2596.4	2399.2	2257.6	2234.9	2219.7
65°	5205.4	1777.3	1916.3	2093.3	2343.6	2530.7	2379.0	2247.5	2252.6	2239.9
67.5°	3536.9	1678.7	1827.8	2002.3	2242.5	2472.5	2351.2	2212.1	2275.3	2260.1
70°	2475.0	1582.6	1724.2	1886.0	2116.0	2391.6	2300.6	2159.0	2154.0	2093.3
72.5°	1931.5	1456.2	1582.6	1724.2	1954.2	2277.8	2199.5	2040.2	1956.8	1893.6
73°	1843.0	1425.9	1547.2	1688.8	1918.9	2250.0	2171.7	2007.3	1913.8	1855.6
75°	1524.5	1294.4	1405.6	1532.0	1767.2	2118.6	2035.1	1858.2	1739.4	1704.0
77.5°	1198.3	1107.3	1213.5	1327.3	1557.3	1926.4	1832.9	1663.5	1597.8	1567.4
80°	887.4	917.7	1011.3	1112.4	1350.0	1721.7	1638.2	1468.8	1762.1	1688.8
82.5°	624.4	695.2	781.2	872.2	1132.6	1521.9	1420.8	1246.4	1289.3	1071.9
85°	369.1	455.1	536.0	614.3	816.6	1261.5	1173.1	993.6	814.1	776.1
87.5°	214.9	252.8	275.6	356.5	561.2	950.6	826.7	735.7	422.2	285.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)