

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: P192348

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192348
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-10-LED-E1-T4FT-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 65020 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

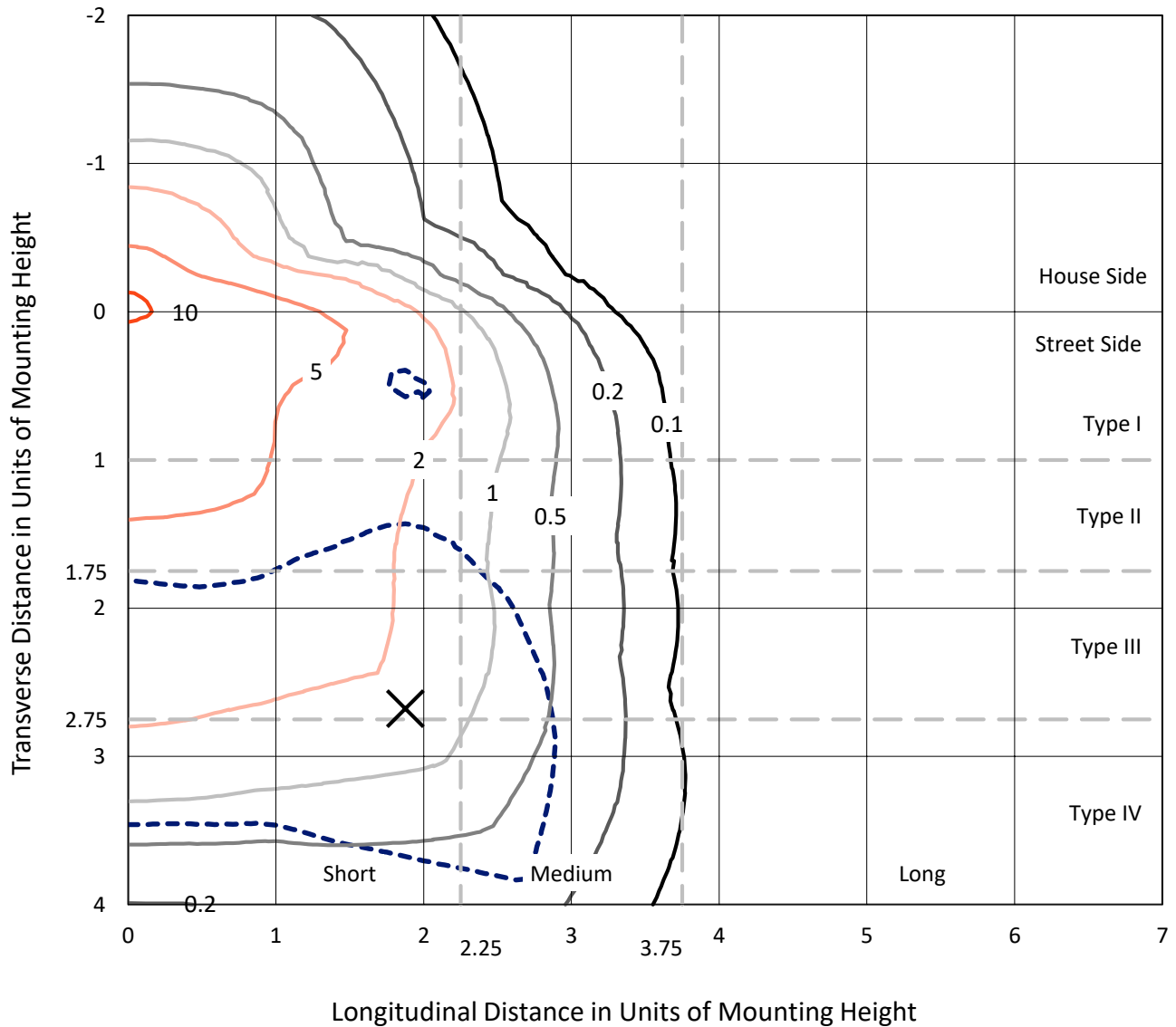


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Iso-Footcandle Lines of Horizontal Illumination

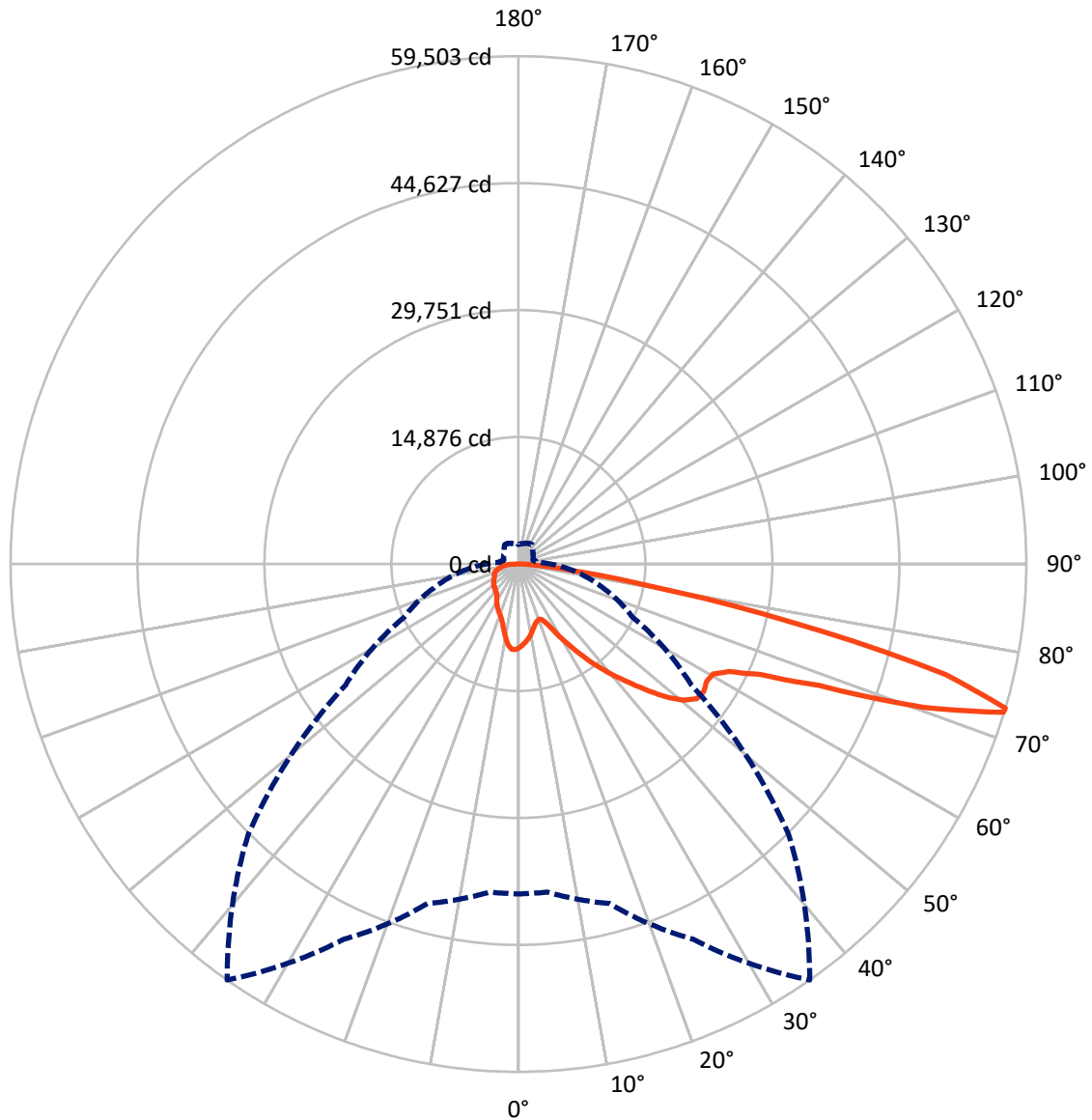
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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	12401.1	0.0	12401.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	52618.9	0.0	52618.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	65020.0	0.0	65020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	888.4	1.4
10°-20°	2217.3	3.4
20°-30°	3584.6	5.5
30°-40°	6010.9	9.2
40°-50°	9265.6	14.3
50°-60°	12430.8	19.1
60°-70°	16560.3	25.5
70°-80°	12630.5	19.4
80°-90°	1431.6	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°	65020.0	100.0
0°-180°	65020.0	100.0

Coefficient of Utilization



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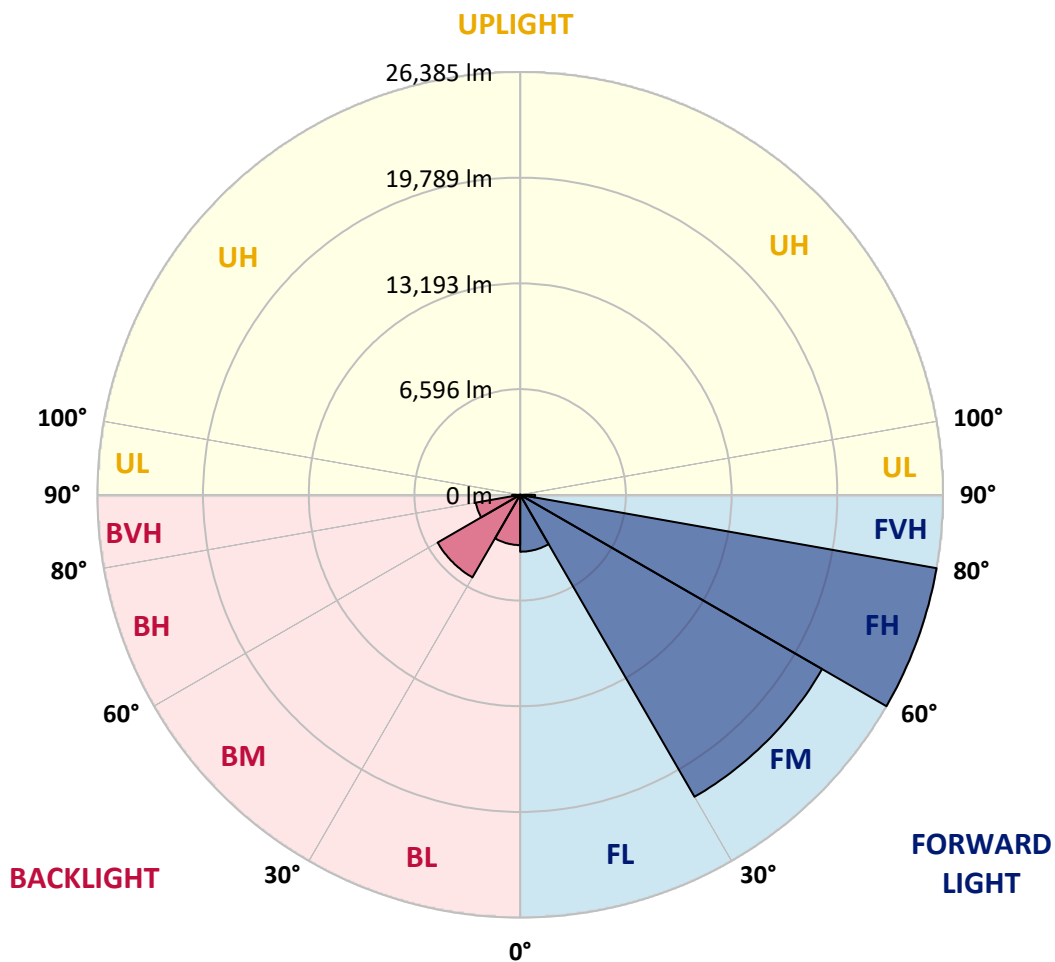
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3552.3	5.5			
FM	(30°-60°)	21756.1	33.5			
FH	(60°-80°)	26385.1	40.6			G5
FVH	(80°-90°)	925.4	1.4			G5
BL	(0°-30°)	3138.1	4.8	B4/5000		
BM	(30°-60°)	5951.2	9.2	B4/8500		
BH	(60°-80°)	2805.7	4.3	B4/5000		G4/5000
BVH	(80°-90°)	506.2	0.8			G4/750
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°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	9426.4	9445.1	9423.2	9451.3	9498.2	9548.1	9582.5	9632.4	9688.6	9766.7	9785.4
5°	8983.0	9011.1	9011.1	9061.1	9151.6	9232.8	9307.7	9388.9	9507.5	9641.8	9694.9
7.5°	8495.9	8511.5	8539.6	8614.6	8745.7	8861.2	8967.4	9098.5	9260.9	9438.9	9532.5
10°	7908.9	7930.8	7974.5	8080.6	8258.6	8417.8	8570.8	8751.9	8958.0	9179.7	9298.4
12.5°	7493.6	7487.4	7506.1	7584.2	7740.3	7933.9	8155.6	8386.6	8639.5	8898.7	9042.3
15°	7353.1	7318.8	7247.0	7228.2	7312.5	7506.1	7762.2	8046.3	8349.2	8661.4	8839.4
17.5°	7440.6	7381.2	7184.5	7040.9	7028.4	7175.2	7446.8	7765.3	8115.0	8495.9	8717.6
20°	7990.1	7849.6	7365.6	7031.5	6916.0	6987.8	7225.1	7562.3	7974.5	8480.3	8764.4
22.5°	9304.6	9098.5	8071.3	7449.9	7059.6	6972.2	7150.2	7509.2	7990.1	8673.9	9036.1
25°	11218.6	10925.1	9282.7	8492.8	7687.2	7222.0	7262.6	7631.0	8211.8	9123.5	9560.6
27.5°	12729.8	12539.3	10865.8	9963.4	8830.0	7896.4	7627.9	7937.0	8664.5	9860.4	10306.9
30°	13629.0	13513.5	12558.1	11630.7	10288.1	8970.5	8327.3	8511.5	9373.3	10881.4	11249.8
32.5°	14671.9	14603.2	14134.9	13282.5	11861.8	10381.8	9435.7	9370.2	10322.5	12108.5	12277.1
35°	15752.2	15730.4	15455.6	14843.6	13551.0	12242.7	10906.4	10463.0	11356.0	13382.4	13276.2
37.5°	16757.6	16720.2	16560.9	16205.0	15318.2	14241.0	12405.1	11583.9	12470.7	14600.1	14128.6
40°	18609.2	18315.7	17769.3	17500.8	17104.2	15924.0	13594.7	12629.9	13625.9	15761.6	14865.5
42.5°	20866.6	20388.9	19371.0	19002.6	18946.4	17251.0	14406.5	13644.7	14790.6	16913.8	15589.9
45°	22643.3	22193.6	21316.3	20851.0	21057.1	18453.1	15221.4	14728.1	15989.5	18122.1	16336.1
47.5°	24538.5	23832.9	22671.4	22811.9	23261.5	19589.6	16052.0	15892.7	17304.0	19474.1	17263.5
50°	24607.2	24067.1	23558.1	24398.0	25097.4	20635.6	17091.7	17113.6	18912.1	21175.8	18496.8
52.5°	23180.3	23064.8	23873.5	25194.2	26202.7	21463.0	18275.1	18375.0	20969.7	23130.3	19851.9
55°	22680.7	22549.6	23483.2	24916.3	26352.6	22146.8	19558.4	19739.5	23458.2	25191.1	21172.6
57.5°	23898.4	23608.1	23670.5	24785.2	25987.3	22896.2	20957.2	21322.5	26162.1	26992.7	22021.9
60°	27301.8	26680.5	25500.2	25472.1	26184.0	24020.2	22574.6	23021.1	28972.3	27854.5	21690.9
62.5°	32075.9	31454.5	29243.9	27804.5	27698.3	25874.9	24560.4	24679.0	30595.9	26686.7	19670.8
65°	37243.4	36687.6	34217.8	32185.2	31204.7	28947.3	26867.8	25419.0	30065.1	23473.8	16136.3
67.5°	43516.2	42919.8	40796.6	38920.1	37977.1	33905.6	28488.3	24710.3	26696.1	18184.6	11599.5
70°	47903.1	47294.2	46457.4	47978.0	50285.4	41058.9	28697.5	21828.3	19939.3	12086.6	6981.6
72.5°	42179.8	41895.7	43422.5	49826.4	59437.0	45398.9	25940.5	15892.7	11580.8	6416.4	4040.3
73°	38645.3	38582.8	41186.9	48530.6	59502.6	44730.7	24732.1	14771.8	9932.2	5676.4	3693.7
75°	17450.8	17953.5	23661.1	37068.5	51696.7	36859.3	17407.1	8474.1	5610.9	3921.7	2788.3
77.5°	4193.3	4368.2	7403.1	17603.8	32647.3	21965.7	7887.0	4190.2	3587.6	2769.5	2035.8
80°	1786.0	1845.3	2850.7	6503.8	15371.3	8845.6	3634.4	2807.0	2482.3	1932.7	1426.9
82.5°	992.9	1055.4	1617.4	2950.6	6204.1	3016.2	2216.9	1954.6	1633.0	1164.6	927.3
85°	562.0	596.4	946.1	1648.6	2629.0	1211.5	1327.0	1298.9	921.1	599.5	455.9
87.5°	265.4	287.3	455.9	765.0	1030.4	474.6	674.4	743.1	577.6	365.3	237.3
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°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	9807.3	9863.5	9929.1	9963.4	9994.6	10032.1	10069.6	10069.6	10075.8	10078.9
5°	9738.6	9854.1	9957.2	10000.9	10010.2	10010.2	10000.9	9950.9	9907.2	9925.9
7.5°	9595.0	9763.6	9851.0	9835.4	9716.7	9579.4	9463.8	9323.3	9251.5	9239.0
10°	9388.9	9582.5	9598.1	9442.0	9148.5	8855.0	8611.4	8374.1	8261.7	8233.6
12.5°	9161.0	9338.9	9239.0	8917.4	8445.9	8018.2	7709.1	7468.7	7362.5	7334.4
15°	8976.7	9098.5	8845.6	8339.8	7746.5	7293.8	7037.8	6859.8	6784.9	6763.0
17.5°	8880.0	8904.9	8442.8	7759.0	7128.3	6750.5	6591.3	6507.0	6478.9	6463.3
20°	8926.8	8751.9	8058.8	7218.9	6622.5	6357.1	6319.6	6297.8	6291.5	6282.2
22.5°	9161.0	8705.1	7706.0	6706.8	6179.1	6063.6	6094.8	6091.7	6085.5	6079.2
25°	9579.4	8745.7	7362.5	6219.7	5807.6	5782.6	5838.8	5838.8	5813.8	5813.8
27.5°	10132.0	8830.0	6978.4	5757.6	5470.4	5473.5	5517.2	5504.7	5476.6	5457.9
30°	10806.4	8883.1	6528.8	5342.3	5155.0	5142.5	5155.0	5101.9	5017.6	5011.4
32.5°	11496.5	8817.5	6007.4	4973.9	4820.9	4792.8	4783.4	4708.5	4611.7	4583.6
35°	12121.0	8577.1	5476.6	4680.4	4502.4	4440.0	4483.7	4458.7	4371.3	4349.4
37.5°	12576.8	8130.6	4998.9	4421.2	4274.5	4258.9	4287.0	4296.4	4193.3	4171.5
40°	12882.8	7524.9	4589.9	4202.7	4230.8	4171.5	4077.8	4012.2	3981.0	3971.6
42.5°	13129.5	6894.1	4246.4	4099.6	4240.1	4068.4	3865.5	3759.3	3815.5	3840.5
45°	13413.6	6279.0	3959.1	3971.6	4193.3	3949.8	3718.7	3615.7	3637.5	3643.8
47.5°	13803.9	5529.7	3650.0	3765.6	4037.2	3868.6	3628.2	3481.4	3378.4	3331.5
50°	14344.1	4642.9	3328.4	3534.5	3884.2	3809.3	3487.7	3331.5	3141.1	3097.4
52.5°	14718.7	3815.5	3063.0	3340.9	3746.8	3690.6	3375.3	3172.3	2972.5	2935.0
55°	14515.8	3169.2	2832.0	3125.5	3565.7	3543.9	3281.6	3009.9	2853.8	2822.6
57.5°	13501.0	2760.2	2654.0	2922.5	3344.0	3419.0	3156.7	2872.6	2760.2	2738.3
60°	11565.2	2504.1	2541.6	2785.1	3162.9	3294.1	3031.8	2797.6	2722.7	2707.1
62.5°	8973.6	2332.4	2457.3	2685.2	3022.4	3206.7	2963.1	2788.3	2760.2	2741.4
65°	6428.9	2195.0	2366.7	2585.3	2894.4	3125.5	2938.1	2775.8	2782.0	2766.4
67.5°	4368.2	2073.2	2257.5	2472.9	2769.5	3053.7	2903.8	2732.1	2810.1	2791.4
70°	3056.8	1954.6	2129.4	2329.3	2613.4	2953.7	2841.3	2666.5	2660.2	2585.3
72.5°	2385.5	1798.5	1954.6	2129.4	2413.6	2813.2	2716.4	2519.7	2416.7	2338.6
73°	2276.2	1761.0	1910.9	2085.7	2369.9	2778.9	2682.1	2479.1	2363.6	2291.8
75°	1882.8	1598.6	1736.0	1892.1	2182.5	2616.5	2513.5	2294.9	2148.2	2104.5
77.5°	1480.0	1367.6	1498.7	1639.2	1923.4	2379.2	2263.7	2054.5	1973.3	1935.9
80°	1095.9	1133.4	1248.9	1373.8	1667.3	2126.3	2023.3	1814.1	2176.3	2085.7
82.5°	771.2	858.6	964.8	1077.2	1398.8	1879.7	1754.8	1539.3	1592.4	1323.9
85°	455.9	562.0	661.9	758.7	1008.5	1558.1	1448.8	1227.1	1005.4	958.6
87.5°	265.4	312.2	340.3	440.3	693.2	1174.0	1021.0	908.6	521.4	352.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)