

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: P191548

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191548
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 66512.3 lumens
Efficiency: N/A
Efficacy: 103.9 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

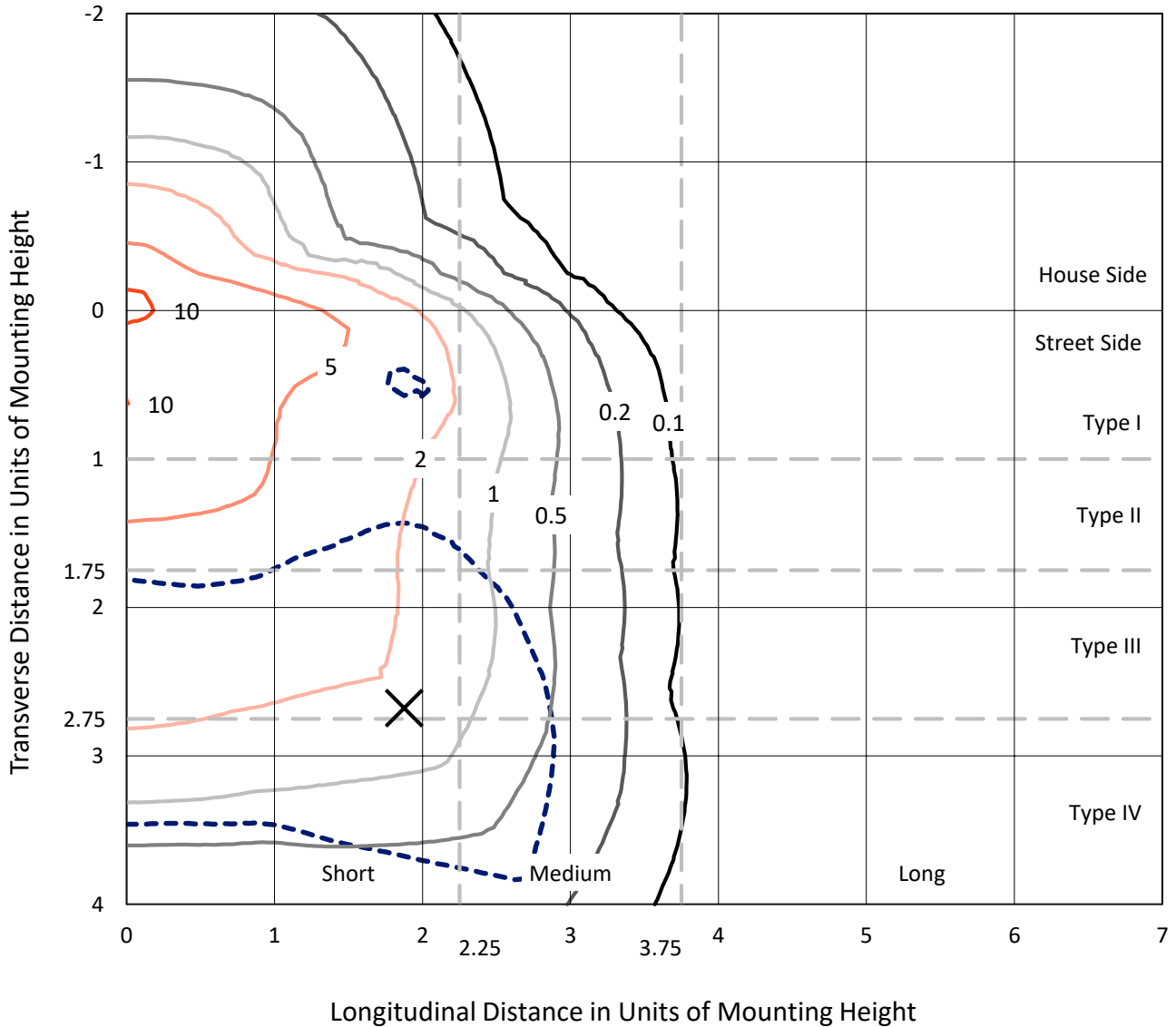
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

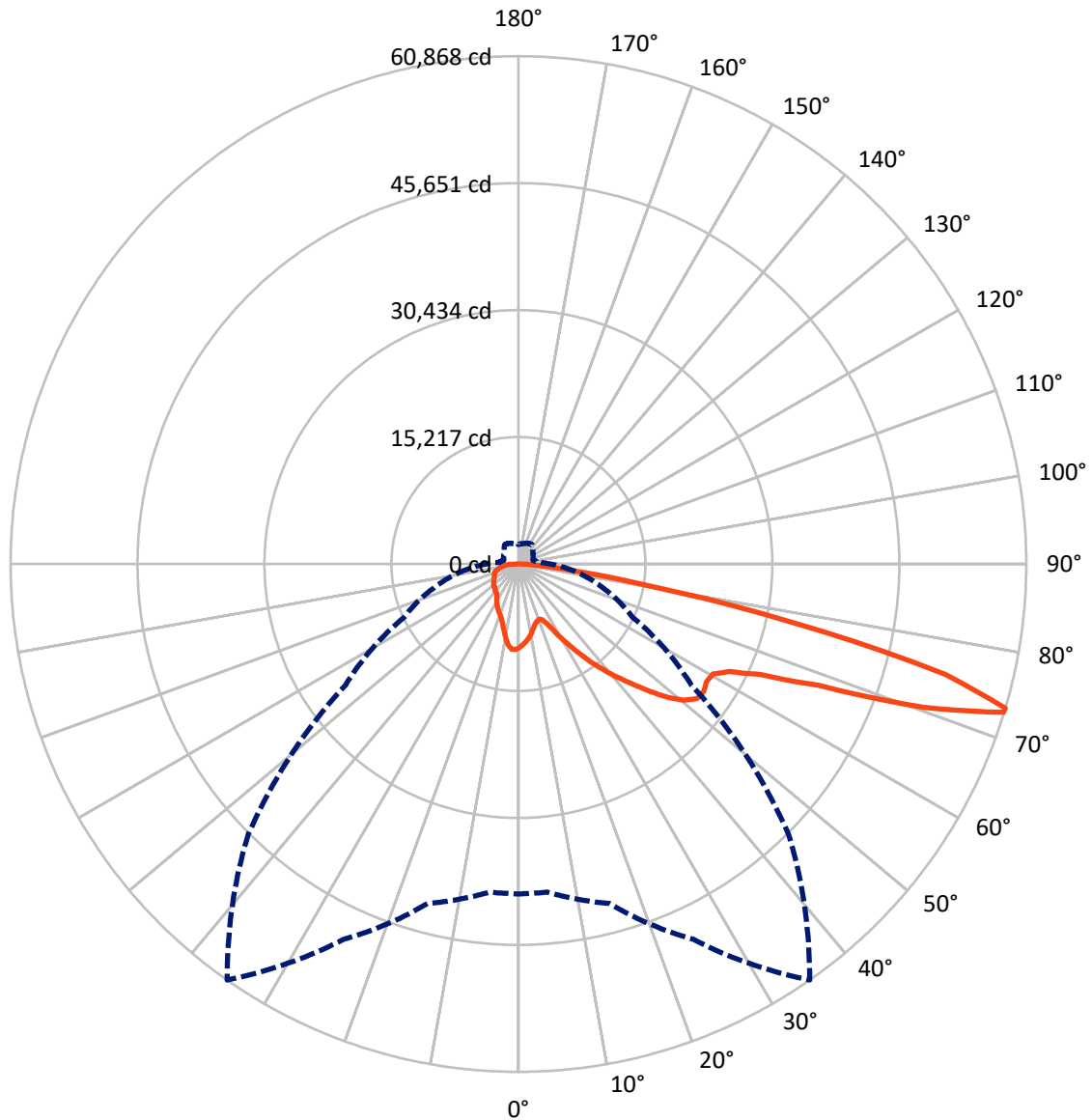
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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	12685.7	0.0	12685.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	53826.5	0.0	53826.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	66512.3	0.0	66512.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.8	1.4
10°-20°	2268.2	3.4
20°-30°	3666.9	5.5
30°-40°	6148.9	9.2
40°-50°	9478.2	14.3
50°-60°	12716.1	19.1
60°-70°	16940.4	25.5
70°-80°	12920.3	19.4
80°-90°	1464.5	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°	66512.3	100.0
0°-180°	66512.3	100.0



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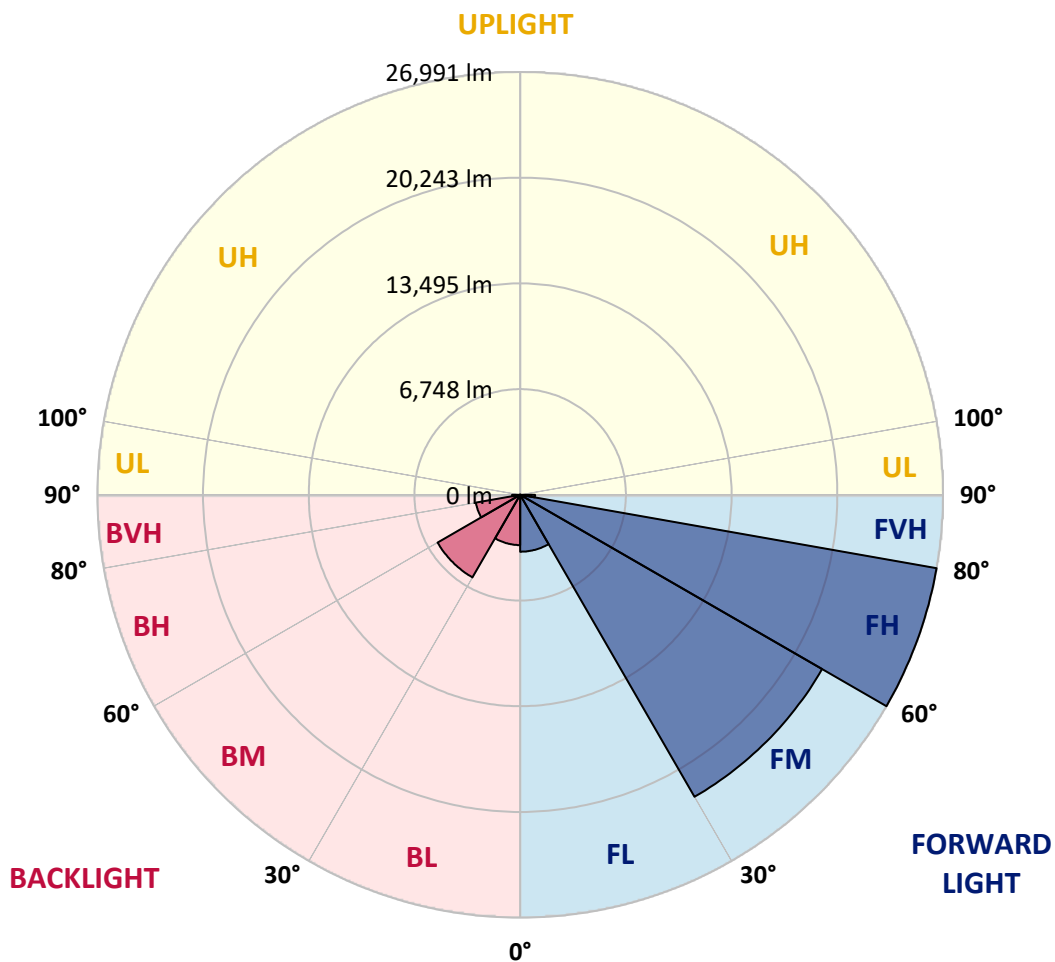
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3633.8	5.5			
FM	(30°-60°)	22255.4	33.5			
FH	(60°-80°)	26990.7	40.6			G5
FVH	(80°-90°)	946.6	1.4			G5
BL	(0°-30°)	3210.1	4.8	B4/5000		
BM	(30°-60°)	6087.7	9.2	B4/8500		
BH	(60°-80°)	2870.1	4.3	B4/5000		G4/5000
BVH	(80°-90°)	517.8	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°	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7
2.5°	9642.7	9661.9	9639.5	9668.2	9716.2	9767.2	9802.4	9853.5	9911.0	9990.9	10010.0
5°	9189.2	9217.9	9217.9	9269.1	9361.6	9444.7	9521.3	9604.4	9725.7	9863.1	9917.4
7.5°	8690.9	8706.8	8735.6	8812.3	8946.4	9064.6	9173.2	9307.3	9473.4	9655.5	9751.3
10°	8090.4	8112.8	8157.5	8266.1	8448.1	8611.0	8767.5	8952.8	9163.6	9390.4	9511.8
12.5°	7665.6	7659.2	7678.4	7758.3	7917.9	8116.0	8342.8	8579.1	8837.8	9102.9	9249.8
15°	7521.9	7486.8	7413.3	7394.1	7480.3	7678.4	7940.3	8231.0	8540.8	8860.2	9042.3
17.5°	7611.4	7550.6	7349.4	7202.5	7189.7	7339.9	7617.7	7943.5	8301.2	8690.9	8917.7
20°	8173.5	8029.8	7534.6	7192.9	7074.7	7148.2	7390.9	7735.9	8157.5	8674.9	8965.6
22.5°	9518.1	9307.3	8256.5	7620.9	7221.6	7132.2	7314.3	7681.5	8173.5	8873.0	9243.5
25°	11476.1	11175.8	9495.7	8687.7	7863.6	7387.8	7429.3	7806.1	8400.3	9332.9	9780.0
27.5°	13022.0	12827.1	11115.2	10192.1	9032.7	8077.6	7803.0	8119.2	8863.4	10086.7	10543.5
30°	13941.8	13823.6	12846.3	11897.6	10524.2	9176.4	8518.4	8706.8	9588.4	11131.1	11508.0
32.5°	15008.6	14938.4	14459.3	13587.3	12134.0	10620.1	9652.3	9585.3	10559.4	12386.4	12558.9
35°	16113.7	16091.4	15810.3	15184.3	13862.0	12523.7	11156.7	10703.1	11616.6	13689.5	13580.9
37.5°	17142.2	17103.9	16941.0	16576.9	15669.8	14567.8	12689.8	11849.8	12756.9	14935.2	14452.9
40°	19036.3	18736.1	18177.1	17902.5	17496.8	16289.5	13906.7	12919.8	13938.6	16123.3	15206.7
42.5°	21345.5	20856.8	19815.6	19438.7	19381.2	17646.9	14737.1	13957.9	15130.1	17302.0	15947.7
45°	23163.0	22703.0	21805.5	21329.5	21540.4	18876.6	15570.7	15066.1	16356.5	18538.0	16711.0
47.5°	25101.7	24379.9	23191.7	23335.5	23795.4	20039.2	16420.4	16257.5	17701.1	19921.0	17659.7
50°	25172.0	24619.5	24098.8	24958.0	25673.4	21109.2	17484.0	17506.4	19346.1	21661.8	18921.3
52.5°	23712.3	23594.2	24421.4	25772.4	26804.1	21955.6	18694.5	18796.7	21451.0	23661.2	20307.5
55°	23201.2	23067.1	24022.2	25488.1	26957.4	22655.1	20007.3	20192.5	23996.6	25769.3	21658.5
57.5°	24446.9	24149.9	24213.8	25354.0	26583.7	23421.7	21438.2	21811.9	26762.5	27612.2	22527.3
60°	27928.4	27292.8	26085.5	26056.7	26784.9	24571.5	23092.7	23549.5	29637.2	28493.8	22188.7
62.5°	32812.1	32176.4	29915.1	28442.6	28334.0	26468.8	25124.1	25245.4	31298.1	27299.2	20122.3
65°	38098.2	37529.6	35003.1	32923.9	31920.9	29611.7	27484.4	26002.4	30755.1	24012.5	16506.6
67.5°	44514.9	43904.8	41732.9	39813.3	38848.7	34683.8	29142.1	25277.4	27308.8	18602.0	11865.7
70°	49002.5	48379.6	47523.6	49079.1	51439.5	42001.2	29356.1	22329.3	20396.9	12364.0	7141.8
72.5°	43147.9	42857.2	44419.1	50970.0	60801.1	46440.8	26535.9	16257.5	11846.6	6563.7	4133.0
73°	39532.2	39468.3	42132.2	49644.4	60868.2	45757.3	25299.7	15110.8	10160.2	5806.7	3778.5
75°	17851.3	18365.5	24204.1	37919.3	52883.2	37705.3	17806.6	8668.6	5739.7	4011.7	2852.3
77.5°	4289.5	4468.5	7573.0	18007.8	33396.6	22469.8	8068.0	4286.4	3669.9	2833.1	2082.5
80°	1827.0	1887.7	2916.1	6653.1	15724.1	9048.6	3717.8	2871.4	2539.3	1977.1	1459.6
82.5°	1015.7	1079.6	1654.5	3018.3	6346.5	3085.4	2267.8	1999.5	1670.5	1191.3	948.6
85°	574.9	610.1	967.8	1686.4	2689.3	1239.3	1357.5	1328.7	942.2	613.3	466.4
87.5°	271.5	293.9	466.4	782.6	1054.0	485.5	689.9	760.2	590.9	373.7	242.7
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°	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7	10038.7
2.5°	10032.4	10089.9	10157.0	10192.1	10224.0	10262.3	10300.7	10300.7	10307.0	10310.2
5°	9962.1	10080.3	10185.7	10230.4	10239.9	10239.9	10230.4	10179.3	10134.6	10153.7
7.5°	9815.2	9987.7	10077.1	10061.1	9939.7	9799.3	9681.0	9537.3	9463.8	9451.0
10°	9604.4	9802.4	9818.4	9658.7	9358.5	9058.2	8809.0	8566.3	8451.3	8422.6
12.5°	9371.3	9553.2	9451.0	9122.1	8639.7	8202.2	7886.0	7640.1	7531.5	7502.7
15°	9182.7	9307.3	9048.6	8531.2	7924.3	7461.2	7199.3	7017.2	6940.6	6918.2
17.5°	9083.8	9109.3	8636.6	7937.1	7291.9	6905.4	6742.6	6656.3	6627.6	6611.6
20°	9131.7	8952.8	8243.8	7384.6	6774.5	6503.0	6464.6	6442.3	6435.9	6426.4
22.5°	9371.3	8904.9	7882.9	6860.7	6320.9	6202.8	6234.7	6231.5	6225.2	6218.7
25°	9799.3	8946.4	7531.5	6362.4	5940.9	5915.3	5972.8	5972.8	5947.2	5947.2
27.5°	10364.5	9032.7	7138.6	5889.7	5596.0	5599.1	5643.8	5631.0	5602.3	5583.2
30°	11054.4	9087.0	6678.6	5464.9	5273.3	5260.5	5273.3	5219.0	5132.8	5126.4
32.5°	11760.4	9019.9	6145.3	5088.1	4931.5	4902.8	4893.2	4816.6	4717.5	4688.8
35°	12399.2	8774.0	5602.3	4787.8	4605.7	4541.9	4586.6	4561.0	4471.6	4449.2
37.5°	12865.4	8317.2	5113.6	4522.7	4372.6	4356.6	4385.4	4395.0	4289.5	4267.2
40°	13178.5	7697.6	4695.2	4299.2	4327.9	4267.2	4171.4	4104.3	4072.4	4062.8
42.5°	13430.8	7052.3	4343.9	4193.7	4337.4	4161.8	3954.2	3845.6	3903.1	3928.6
45°	13721.5	6423.1	4050.0	4062.8	4289.5	4040.5	3804.0	3698.7	3721.0	3727.4
47.5°	14120.7	5656.6	3733.8	3852.0	4129.9	3957.4	3711.5	3561.3	3455.9	3408.0
50°	14673.3	4749.5	3404.8	3615.6	3973.3	3896.7	3567.7	3408.0	3213.2	3168.5
52.5°	15056.5	3903.1	3133.3	3417.6	3832.8	3775.3	3452.8	3245.1	3040.7	3002.4
55°	14848.9	3241.9	2897.0	3197.2	3647.5	3625.2	3356.9	3079.0	2919.3	2887.4
57.5°	13810.9	2823.5	2714.9	2989.6	3420.7	3497.5	3229.1	2938.5	2823.5	2801.1
60°	11830.6	2561.6	2599.9	2849.0	3235.5	3369.7	3101.4	2861.8	2785.2	2769.2
62.5°	9179.6	2385.9	2513.7	2746.8	3091.8	3280.3	3031.1	2852.3	2823.5	2804.3
65°	6576.4	2245.4	2421.0	2644.6	2960.8	3197.2	3005.5	2839.5	2845.8	2829.9
67.5°	4468.5	2120.8	2309.3	2529.7	2833.1	3123.8	2970.4	2794.8	2874.6	2855.5
70°	3127.0	1999.5	2178.3	2382.8	2673.4	3021.5	2906.5	2727.7	2721.3	2644.6
72.5°	2440.2	1839.8	1999.5	2178.3	2469.0	2877.8	2778.7	2577.5	2472.2	2392.3
73°	2328.4	1801.4	1954.8	2133.6	2424.3	2842.7	2743.7	2536.0	2417.8	2344.4
75°	1926.0	1635.3	1775.8	1935.5	2232.6	2676.6	2571.2	2347.6	2197.5	2152.8
77.5°	1514.0	1399.0	1533.1	1676.8	1967.5	2433.8	2315.7	2101.7	2018.6	1980.3
80°	1121.1	1159.4	1277.6	1405.3	1705.6	2175.1	2069.7	1855.7	2226.2	2133.6
82.5°	788.9	878.3	986.9	1101.9	1430.9	1922.8	1795.1	1574.6	1628.9	1354.3
85°	466.4	574.9	677.1	776.1	1031.6	1593.9	1482.1	1255.3	1028.5	980.6
87.5°	271.5	319.4	348.1	450.4	709.1	1200.9	1044.4	929.5	533.4	360.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)