

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: P191468

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 66129.7 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full 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

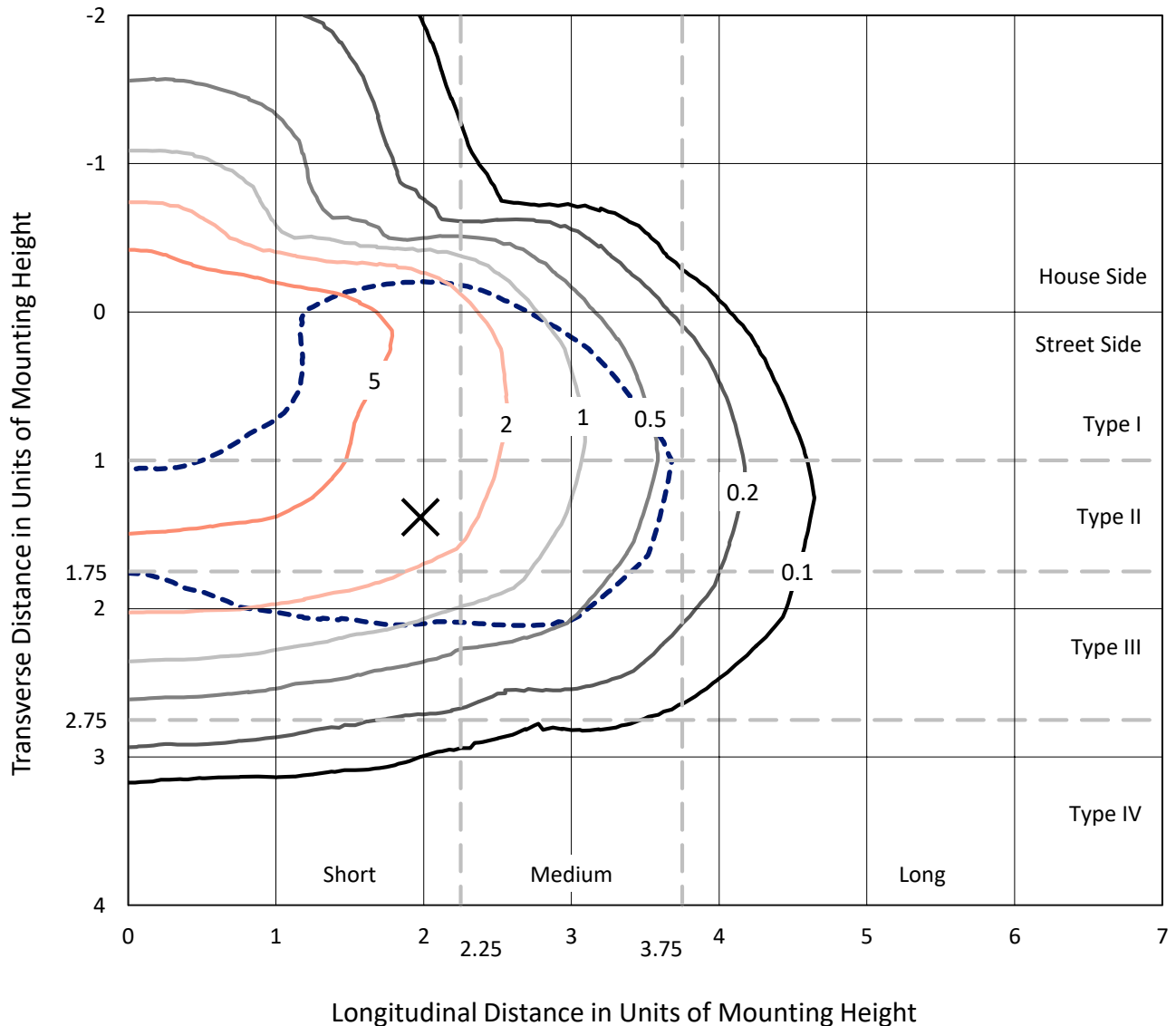


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

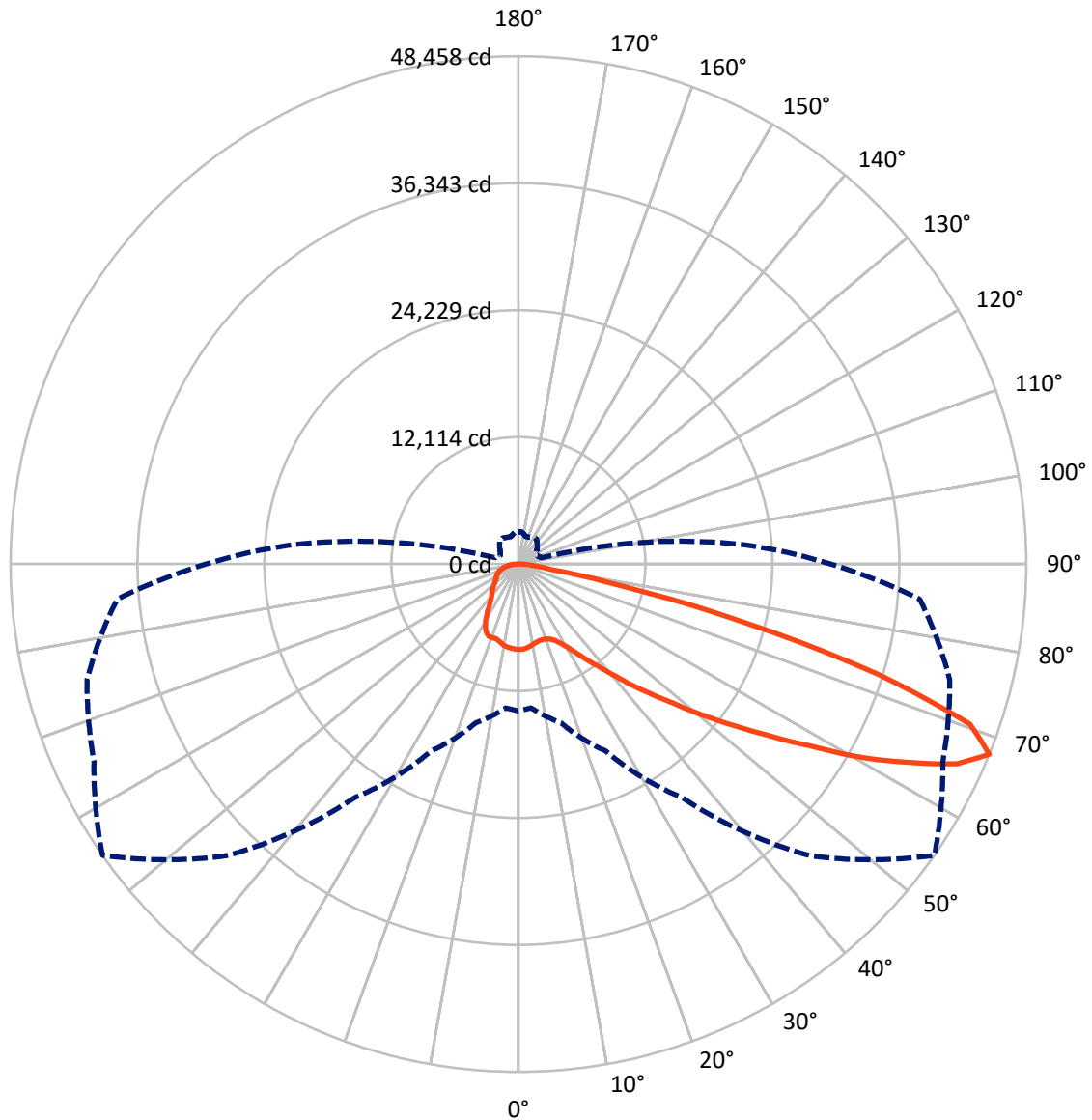


Based on 30 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14285.4	0.0	14285.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	51844.3	0.0	51844.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	66129.7	0.0	66129.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	761.1	1.2
10°-20°	2155.6	3.3
20°-30°	3611.0	5.5
30°-40°	5938.0	9.0
40°-50°	9995.5	15.1
50°-60°	15732.2	23.8
60°-70°	18774.7	28.4
70°-80°	8062.2	12.2
80°-90°	1099.2	1.7
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°	66129.7	100.0
0°-180°	66129.7	100.0



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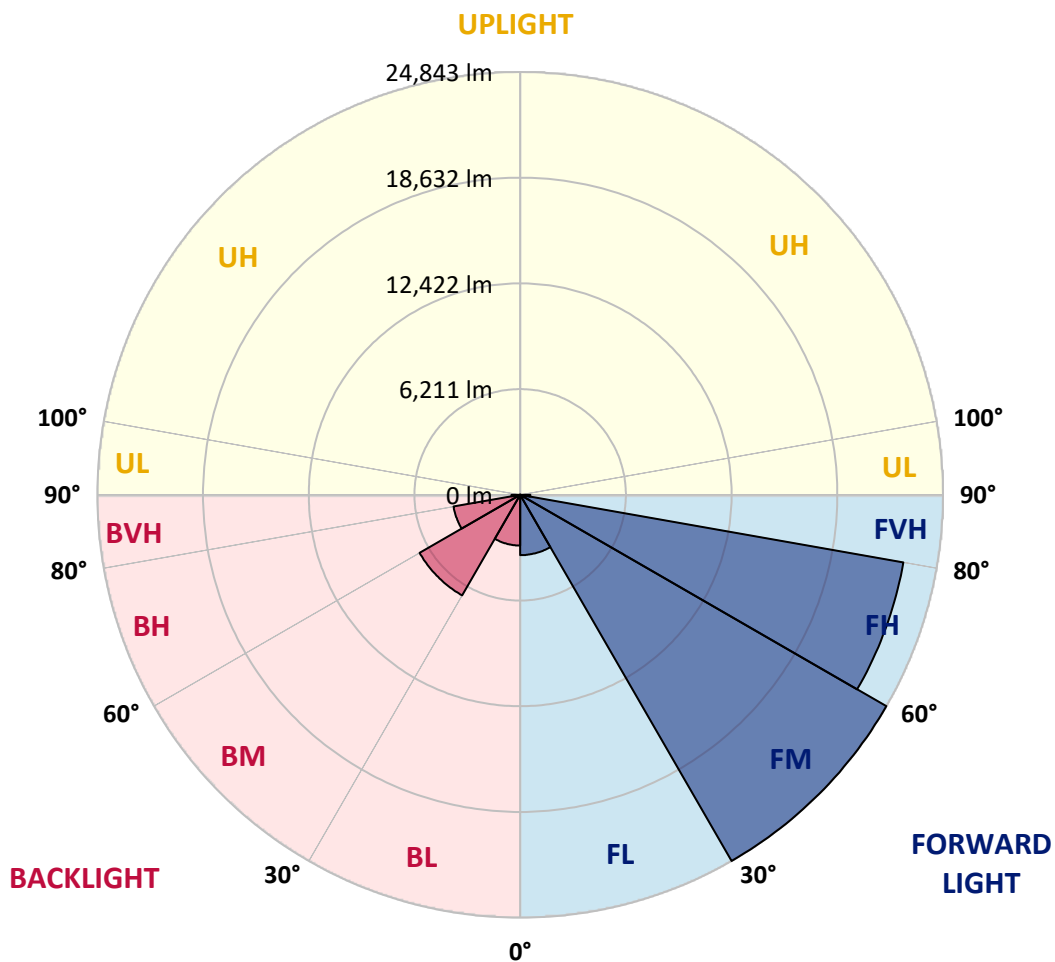
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3544.7	5.4			
FM	(30°-60°)	24843.2	37.6			
FH	(60°-80°)	22861.3	34.6			G5
FVH	(80°-90°)	595.0	0.9			G4/750
BL	(0°-30°)	2983.1	4.5	B4/5000		
BM	(30°-60°)	6822.6	10.3	B4/8500		
BH	(60°-80°)	3975.6	6.0	B4/5000		G4/5000
BVH	(80°-90°)	504.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6
2.5°	8084.3	8087.4	8093.8	8119.4	8141.8	8135.3	8138.5	8125.8	8122.5	8103.4	8122.5
5°	7982.0	7991.6	7994.8	8036.3	8061.9	8068.3	8058.7	8042.7	8023.5	8004.4	8014.0
7.5°	7748.9	7774.4	7777.6	7835.1	7876.6	7930.9	7934.1	7937.3	7927.8	7915.0	7934.1
10°	7602.0	7608.3	7605.1	7646.7	7678.6	7739.2	7774.4	7835.1	7860.7	7867.0	7879.8
12.5°	7592.3	7586.0	7576.4	7576.4	7566.8	7592.3	7656.3	7742.5	7803.2	7822.3	7838.3
15°	7694.5	7691.4	7659.4	7611.5	7550.8	7531.7	7586.0	7681.7	7761.6	7803.2	7819.1
17.5°	7924.5	7905.4	7854.2	7745.7	7614.7	7563.6	7570.0	7649.8	7742.5	7796.7	7812.8
20°	8346.2	8346.2	8237.5	8033.1	7800.0	7678.6	7621.1	7669.0	7758.5	7831.9	7854.2
22.5°	9074.4	9080.8	8898.8	8563.3	8170.5	7911.8	7768.0	7758.5	7863.8	7946.9	7972.5
25°	10106.1	10080.6	9825.0	9345.9	8748.6	8320.6	8071.5	8014.0	8103.4	8196.0	8228.0
27.5°	11307.1	11214.4	10911.0	10332.9	9559.9	8933.8	8550.5	8458.0	8544.2	8649.6	8681.6
30°	12495.2	12399.5	12038.5	11406.1	10546.9	9754.8	9205.3	9055.3	9176.6	9326.8	9345.9
32.5°	13683.5	13683.5	13281.1	12543.2	11607.3	10735.4	10077.4	9898.5	10099.7	10281.8	10323.3
35°	15104.9	15111.2	14721.6	13833.6	12827.5	11904.4	11179.3	11048.4	11351.8	11479.6	11578.6
37.5°	16852.0	16887.2	16385.7	15312.4	14210.5	13239.5	12377.1	12198.3	12501.7	12849.8	13169.3
40°	18739.7	18784.4	18231.8	16909.5	15807.6	14791.9	13859.1	13536.5	14041.2	14705.6	15117.7
42.5°	20541.2	20771.1	20237.8	18877.0	17692.0	16641.2	15695.7	15226.2	15858.7	16861.6	17219.3
45°	23144.4	23310.5	22381.0	21148.1	20033.4	18857.9	17605.8	17110.7	17995.5	19260.3	19333.9
47.5°	24878.8	24754.2	24281.5	23514.9	22809.0	21710.2	19825.7	19282.7	20458.1	21946.6	21534.5
50°	25801.9	25840.1	25776.3	25821.0	25846.6	25156.6	22547.1	21802.9	23205.0	25003.4	24054.7
52.5°	26664.2	26408.7	26619.5	27667.2	28932.1	28676.6	25508.0	24731.9	26150.0	28395.5	26718.6
55°	26645.1	26255.5	26942.2	28791.6	31535.2	31829.1	28833.1	27938.7	29264.3	32033.5	29542.1
57.5°	25702.9	25722.0	26779.2	29200.3	33349.5	34793.2	32691.5	31350.0	32567.0	35719.5	32119.7
60°	24406.1	24581.7	26105.3	29133.3	34802.8	37224.0	37425.2	35026.3	35802.6	39070.1	34253.4
62.5°	22313.9	22499.2	24600.8	28437.0	34582.4	39565.2	41705.2	39197.8	39185.1	41101.6	34879.5
65°	19014.4	18960.1	21167.2	25833.8	32733.0	41296.4	45956.6	42804.0	41733.9	41133.5	33621.0
67.5°	14022.1	13779.4	15673.4	19675.6	27207.2	39357.6	48457.6	44682.1	42602.7	38428.1	29775.3
70°	7276.1	7033.4	8566.6	11489.2	17893.3	30717.6	45688.3	43711.1	40683.2	32212.4	23326.4
72.5°	3111.0	3069.6	3692.3	5040.3	8656.0	17717.6	35824.9	37834.0	34908.2	24000.4	16037.5
75°	2092.1	2079.4	2312.5	2746.9	3893.6	7189.9	22419.3	26855.9	25539.9	14881.3	9020.1
77.5°	1641.7	1625.8	1763.2	1974.0	2523.3	2836.3	9949.6	14418.1	13344.9	6477.6	3947.9
80°	1284.0	1271.2	1357.5	1472.4	1814.2	1788.7	3274.0	5736.6	4439.8	2481.8	1919.7
82.5°	1012.5	1012.5	1082.8	1086.0	1287.2	1220.2	1708.8	2526.5	2216.7	1447.0	1175.5
85°	926.3	926.3	999.7	811.3	840.0	769.8	1060.4	1498.0	1405.4	594.1	511.1
87.5°	466.4	453.6	840.0	718.6	456.7	408.9	517.4	725.1	779.4	329.0	255.5
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°	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6	8154.6
2.5°	8116.2	8113.0	8119.4	8122.5	8148.1	8183.3	8199.3	8221.6	8234.3	8228.0
5°	8020.3	8026.8	8052.3	8071.5	8116.2	8173.7	8205.6	8231.2	8253.6	8244.0
7.5°	7940.6	7956.5	7994.8	8010.7	8036.3	8052.3	8049.1	8058.7	8077.8	8055.5
10°	7895.7	7915.0	7943.7	7921.3	7860.7	7774.4	7694.5	7653.0	7665.8	7649.8
12.5°	7851.0	7876.6	7854.2	7748.9	7579.6	7467.7	7407.1	7413.5	7442.3	7448.6
15°	7825.5	7835.1	7739.2	7541.3	7368.7	7352.8	7384.8	7378.3	7381.5	7381.5
17.5°	7825.5	7800.0	7621.1	7423.0	7349.6	7320.8	7221.8	7097.2	7043.0	7023.8
20°	7867.0	7800.0	7582.7	7451.8	7292.1	7046.2	6784.2	6554.3	6452.1	6423.3
22.5°	7991.6	7876.6	7691.4	7464.6	7011.0	6599.0	6183.7	5909.1	5723.8	5691.9
25°	8244.0	8116.2	7905.4	7295.3	6563.9	5976.2	5503.4	5196.8	5011.5	4986.0
27.5°	8684.8	8601.7	8020.3	6921.6	5969.7	5340.5	4902.9	4666.6	4529.2	4519.6
30°	9349.1	9307.6	7962.9	6369.0	5238.3	4724.1	4513.3	4375.9	4273.7	4270.5
32.5°	10409.5	10074.1	7774.4	5695.1	4570.7	4286.5	4200.2	4117.2	4037.3	4037.3
35°	11773.4	10693.8	7416.7	4973.2	4165.0	4043.7	3935.1	3804.1	3698.8	3692.3
37.5°	13376.8	11077.1	6774.7	4391.8	3973.4	3880.8	3721.1	3526.3	3341.1	3309.0
40°	14996.3	11192.1	5870.7	4034.1	3852.0	3717.9	3523.0	3293.1	3114.3	3104.7
42.5°	16481.5	10971.7	4912.5	3788.2	3730.7	3551.8	3347.4	3143.0	3002.5	2999.3
45°	17727.2	10399.9	4107.6	3555.1	3602.9	3401.7	3219.6	3053.5	2945.0	2922.6
47.5°	18899.4	9591.9	3542.3	3309.0	3475.2	3318.7	3165.3	3008.8	2903.4	2887.5
50°	20260.2	8719.8	3146.2	3069.6	3363.4	3289.9	3210.0	3047.2	2871.5	2852.3
52.5°	21908.2	7966.0	2836.3	2858.7	3277.1	3328.3	3325.0	3155.8	2849.1	2823.5
55°	23748.0	7129.3	2603.2	2686.3	3242.0	3398.5	3353.7	3258.0	2868.3	2830.0
57.5°	25559.1	6151.8	2440.2	2555.2	3190.9	3392.1	3216.5	3079.1	2913.1	2858.7
60°	26916.6	4839.1	2315.8	2440.2	3079.1	3286.7	3066.3	2884.3	2903.4	2861.9
62.5°	27006.0	3740.3	2165.6	2341.2	2909.8	3181.3	2967.3	2798.0	2945.0	2906.6
65°	25418.6	2826.7	2021.9	2223.1	2727.8	3114.3	2871.5	2750.1	3031.2	2989.7
67.5°	21400.4	2274.2	1900.4	2101.8	2545.7	2973.7	2785.3	2705.4	3107.8	3034.4
70°	15449.8	1938.8	1782.3	1954.8	2382.8	2814.0	2708.6	2625.5	2900.3	2785.3
72.5°	9512.0	1680.1	1648.2	1760.0	2258.3	2647.9	2593.6	2475.4	2612.7	2520.1
75°	4749.6	1456.5	1498.0	1568.3	2082.5	2459.5	2402.0	2283.7	2303.0	2283.7
77.5°	2274.2	1245.6	1322.4	1376.7	1855.7	2245.5	2184.7	2063.4	2041.0	2044.3
80°	1440.5	1041.3	1114.7	1153.1	1657.7	1996.3	1935.6	1814.2	2069.7	1919.7
82.5°	900.7	846.4	865.6	935.9	1443.7	1737.6	1657.7	1549.2	1865.4	1475.7
85°	498.3	590.9	616.4	677.2	1111.5	1453.3	1373.4	1236.1	1108.4	1089.1
87.5°	297.1	351.4	360.9	405.6	747.4	1050.9	929.5	881.6	731.4	728.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)