

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: P193808

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50114 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - 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

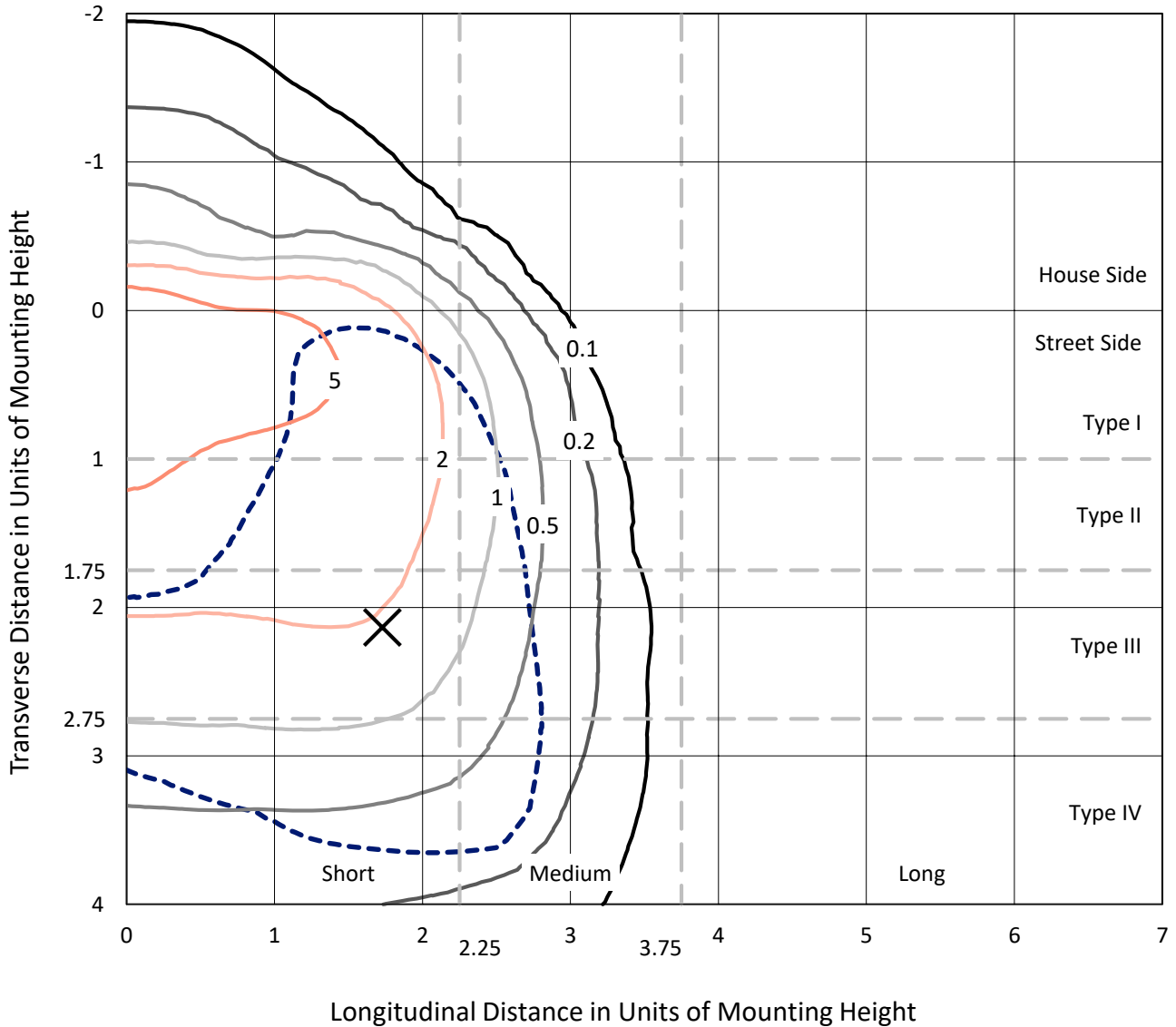


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

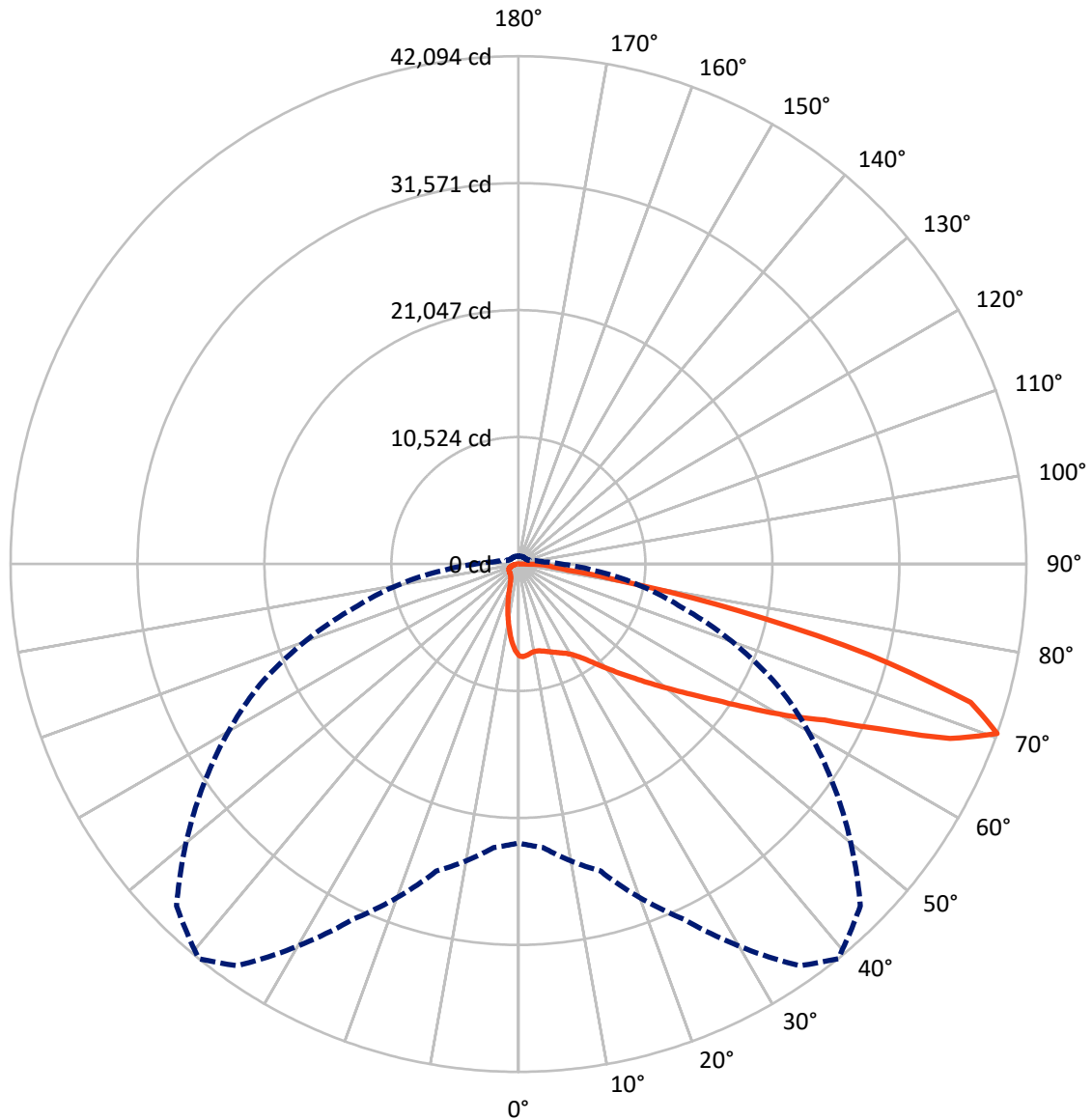


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5699.7	0.0	5699.7
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	44414.3	0.0	44414.3
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	50114.0	0.0	50114.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.9	1.3
10°-20°	1632.0	3.3
20°-30°	2541.1	5.1
30°-40°	3958.6	7.9
40°-50°	6645.9	13.3
50°-60°	10557.5	21.1
60°-70°	14082.6	28.1
70°-80°	8504.1	17.0
80°-90°	1539.1	3.1
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°	50114.0	100.0
0°-180°	50114.0	100.0

**Coefficient of Utilization**



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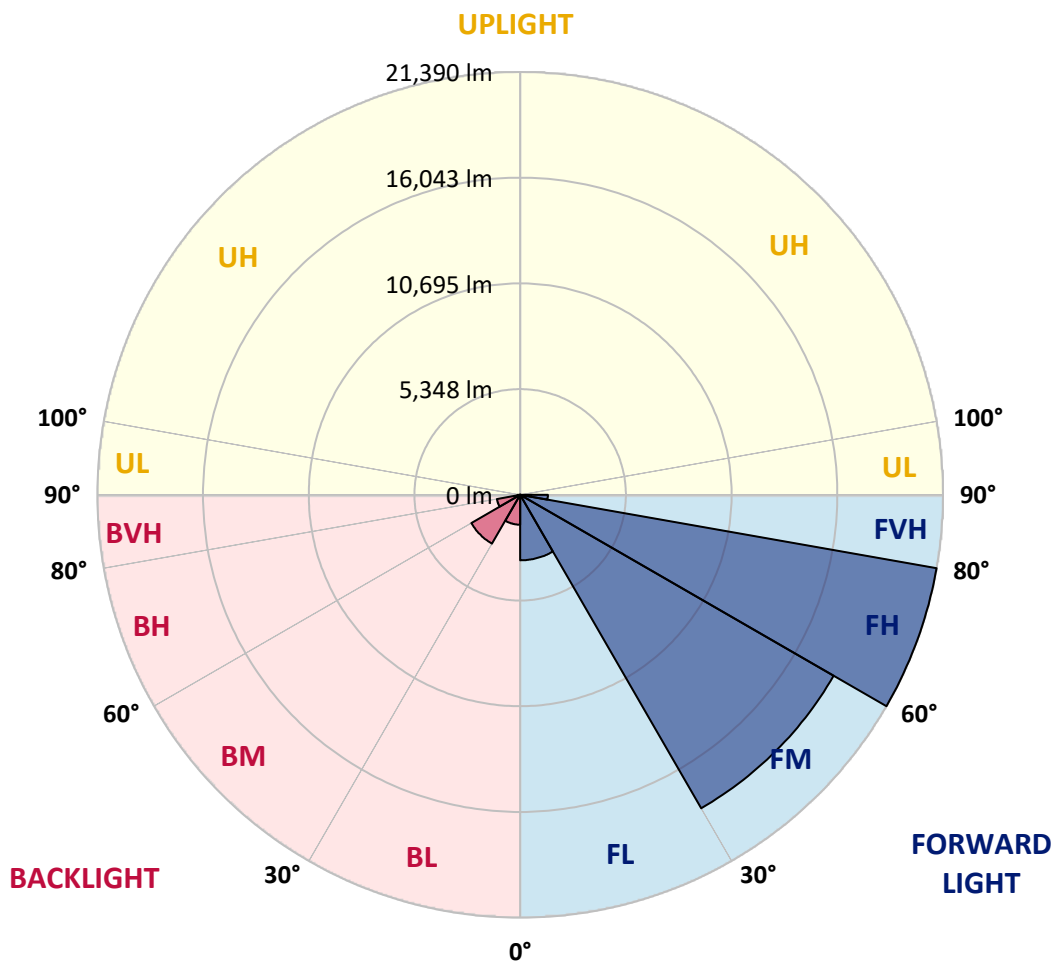
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3314.1	6.6			
FM (30°-60°)	18309.7	36.5			
FH (60°-80°)	21390.1	42.7			G5
FVH (80°-90°)	1400.4	2.8			G5
BL (0°-30°)	1512.0	3.0	B3/2500		
BM (30°-60°)	2852.3	5.7	B3/5000		
BH (60°-80°)	1196.6	2.4	B3/2500		G3/2500
BVH (80°-90°)	138.7	0.3			G2/225
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°	39°	45°	55°	65°	75°	85°
0°	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1
2.5°	7755.9	7753.3	7732.9	7717.6	7704.9	7699.8	7710.0	7671.8	7638.7	7597.9	7554.6
5°	7697.3	7694.7	7661.6	7631.0	7600.4	7590.2	7587.7	7518.9	7478.1	7417.0	7335.5
7.5°	7633.6	7620.8	7577.5	7526.5	7473.0	7447.6	7422.1	7332.9	7287.0	7225.9	7131.6
10°	7567.3	7552.0	7511.3	7460.3	7409.3	7371.1	7327.8	7241.2	7192.8	7146.9	7037.3
12.5°	7498.5	7485.8	7475.6	7452.7	7417.0	7383.9	7350.7	7276.9	7225.9	7172.4	7045.0
15°	7488.3	7483.2	7506.2	7521.5	7501.1	7480.7	7445.0	7381.3	7327.8	7274.3	7108.7
17.5°	7569.9	7567.3	7625.9	7666.7	7656.5	7620.8	7572.4	7501.1	7457.8	7411.9	7205.5
20°	7748.2	7761.0	7832.3	7885.8	7834.8	7783.9	7704.9	7605.5	7582.6	7562.2	7304.9
22.5°	8084.5	8097.3	8148.2	8168.6	8036.1	7962.2	7852.7	7725.3	7710.0	7725.3	7424.6
25°	8609.4	8596.7	8589.0	8512.6	8270.5	8155.9	8015.7	7883.3	7890.9	7959.7	7592.8
27.5°	9305.0	9236.2	9129.2	8899.9	8515.1	8387.7	8217.0	8094.7	8143.1	8275.6	7845.0
30°	10026.1	9949.6	9702.5	9327.9	8836.2	8696.0	8504.9	8367.4	8494.8	8703.7	8181.4
32.5°	10693.6	10683.4	10321.6	9840.1	9279.5	9157.2	8966.1	8810.7	9017.1	9335.6	8685.9
35°	11422.3	11445.2	11012.1	10433.7	9878.3	9750.9	9613.3	9496.1	9771.3	10209.5	9417.1
37.5°	12202.0	12247.8	11735.7	11083.4	10561.1	10507.6	10426.1	10375.1	10800.6	11407.0	10438.8
40°	13244.1	13198.2	12487.3	11817.2	11399.4	11396.8	11371.4	11432.5	12140.8	12971.4	11751.0
42.5°	14360.1	14225.0	13284.8	12604.5	12319.2	12405.8	12456.8	12706.5	13753.7	14872.2	13351.1
45°	15562.7	15259.5	14112.9	13437.7	13340.9	13524.3	13697.6	14240.3	15651.9	17035.4	15104.1
47.5°	16523.2	16230.2	14969.0	14311.7	14523.1	14800.9	15134.6	15993.3	17776.8	19269.9	16834.1
50°	17280.0	17088.9	15832.8	15330.8	15825.1	16253.2	16798.4	17978.1	19988.4	21445.8	18436.7
52.5°	18013.8	17871.1	16704.1	16375.5	17353.9	17945.0	18686.4	20108.2	22256.1	23586.1	19784.6
55°	18676.2	18574.3	17641.8	17677.5	19152.7	19922.2	20854.7	22533.8	24727.5	25494.5	20926.0
57.5°	19422.8	19292.8	18711.9	19310.7	21463.7	22462.4	23675.3	25260.1	27046.1	27191.4	21794.9
60°	20174.4	20062.3	19899.2	21196.1	24398.9	25448.6	26597.7	27902.2	29397.9	28508.6	21743.9
62.5°	20826.7	20839.4	21127.3	23175.9	27272.9	28488.3	29889.6	31178.9	31525.4	28738.0	20136.2
65°	21932.5	22133.8	22992.4	25978.6	31319.0	32944.6	34664.4	34458.0	32114.0	26595.2	16688.9
67.5°	23247.2	23601.4	25341.6	29713.8	36432.7	38590.8	39255.8	35199.5	29757.1	21619.1	11896.2
70°	23114.7	23601.4	26355.7	32498.7	40646.9	42094.1	40076.2	31856.6	23629.4	14123.1	6318.8
72.5°	20526.0	21221.6	24289.3	31222.2	39319.5	39192.1	34791.8	23749.1	14039.0	5671.7	2468.9
75°	15644.2	16347.4	18987.1	24666.4	31077.0	30006.8	24686.8	13119.2	5327.7	2252.4	1556.8
77.5°	8999.2	9544.5	11582.8	15127.0	19715.8	18617.6	13740.9	5834.7	2593.8	1569.5	1215.4
80°	5024.5	5327.7	6566.0	7674.3	9661.7	8856.6	6148.1	3625.7	1936.4	1138.9	937.6
82.5°	3972.2	4242.3	5309.9	4841.0	4413.0	4071.6	3531.4	3228.2	1546.6	718.5	560.5
85°	3470.3	3727.6	4494.5	3811.7	3014.2	2764.5	2869.0	3177.3	1202.6	433.1	479.0
87.5°	3215.5	3559.4	4005.3	2937.7	2346.6	2079.1	2647.3	3483.0	387.3	270.1	193.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1
2.5°	7516.4	7475.6	7409.3	7350.7	7259.0	7210.6	7157.1	7118.9	7088.3	7062.8	7103.6
5°	7284.5	7208.1	7067.9	6917.6	6739.2	6599.1	6481.9	6372.3	6295.9	6244.9	6280.6
7.5°	7065.4	6940.5	6721.4	6448.8	6143.0	5883.1	5669.1	5480.6	5350.6	5266.5	5299.7
10°	6940.5	6785.1	6446.2	6018.2	5567.2	5162.1	4825.8	4535.3	4334.0	4219.4	4237.2
12.5°	6910.0	6708.7	6239.9	5651.3	5034.7	4471.6	3997.7	3595.1	3312.3	3164.5	3169.6
15°	6932.9	6675.5	6046.2	5299.7	4520.0	3809.1	3218.0	2728.8	2400.1	2232.0	2229.4
17.5°	6971.1	6650.1	5842.4	4920.0	3997.7	3172.2	2512.2	2033.2	1742.8	1607.7	1597.5
20°	7011.9	6609.3	5613.1	4509.8	3455.0	2581.0	1967.0	1592.4	1409.0	1335.1	1330.0
22.5°	7070.5	6573.6	5376.1	4076.7	2922.5	2102.0	1617.9	1365.7	1268.9	1230.6	1225.5
25°	7164.7	6555.8	5123.9	3625.7	2443.5	1758.1	1409.0	1253.6	1197.5	1172.0	1169.5
27.5°	7322.7	6581.3	4886.9	3187.4	2053.6	1526.2	1291.8	1197.5	1156.8	1133.8	1131.3
30°	7526.5	6660.3	4637.2	2772.1	1750.4	1368.2	1220.5	1159.3	1126.2	1103.2	1103.2
32.5°	7865.4	6792.7	4374.8	2412.9	1533.8	1258.7	1166.9	1126.2	1098.2	1080.3	1077.8
35°	8364.8	7042.4	4130.2	2114.8	1378.4	1179.7	1121.1	1090.5	1070.1	1059.9	1059.9
37.5°	9091.0	7437.4	3913.6	1900.7	1284.2	1126.2	1077.8	1054.8	1042.1	1042.1	1042.1
40°	10066.8	7982.6	3737.8	1758.1	1230.6	1088.0	1044.6	1026.8	1019.2	1021.7	1021.7
42.5°	11272.0	8690.9	3620.6	1658.7	1205.2	1065.0	1021.7	1006.4	998.8	996.2	998.8
45°	12645.3	9496.1	3607.9	1584.8	1179.7	1049.7	1006.4	991.1	975.9	965.7	965.7
47.5°	13980.4	10314.0	3712.3	1559.3	1151.7	1031.9	993.7	978.4	955.5	932.5	932.5
50°	15160.1	11009.6	3852.5	1569.5	1141.5	1006.4	973.3	965.7	930.0	904.5	902.0
52.5°	16097.7	11544.6	3967.1	1600.1	1151.7	988.6	947.8	950.4	912.2	884.1	881.6
55°	16849.4	11896.2	3936.5	1630.7	1174.6	978.4	924.9	930.0	899.4	871.4	871.4
57.5°	17178.1	11766.3	3597.7	1605.2	1192.4	980.9	907.1	927.4	902.0	876.5	876.5
60°	16472.3	10612.1	2963.2	1493.1	1169.5	973.3	899.4	937.6	935.1	909.6	907.1
62.5°	14337.1	8545.7	2298.2	1327.5	1090.5	935.1	879.0	935.1	963.1	955.5	952.9
65°	11050.3	6087.0	1755.5	1149.1	983.5	871.4	825.5	876.5	914.7	924.9	922.3
67.5°	7172.4	3730.2	1352.9	980.9	863.7	797.5	756.7	779.7	787.3	787.3	782.2
70°	3526.3	2007.8	1077.8	825.5	741.4	718.5	695.6	682.8	670.1	659.9	659.9
72.5°	1740.2	1312.2	886.7	698.1	639.5	629.3	624.2	609.0	598.8	586.0	580.9
75°	1286.7	1067.6	754.2	588.6	550.4	540.2	550.4	537.6	535.1	524.9	519.8
77.5°	1057.4	909.6	649.7	504.5	471.4	453.5	468.8	471.4	473.9	458.6	453.5
80°	858.6	769.5	542.7	417.9	387.3	374.5	384.7	405.1	410.2	387.3	377.1
82.5°	619.1	629.3	438.2	326.1	300.7	290.5	310.8	336.3	341.4	308.3	300.7
85°	519.8	524.9	336.3	231.9	206.4	191.1	224.2	249.7	267.5	234.4	226.8
87.5°	216.6	308.3	193.6	129.9	114.7	99.4	119.8	132.5	160.5	147.8	145.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)