

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: P194015

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T3R-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23144 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 226  
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

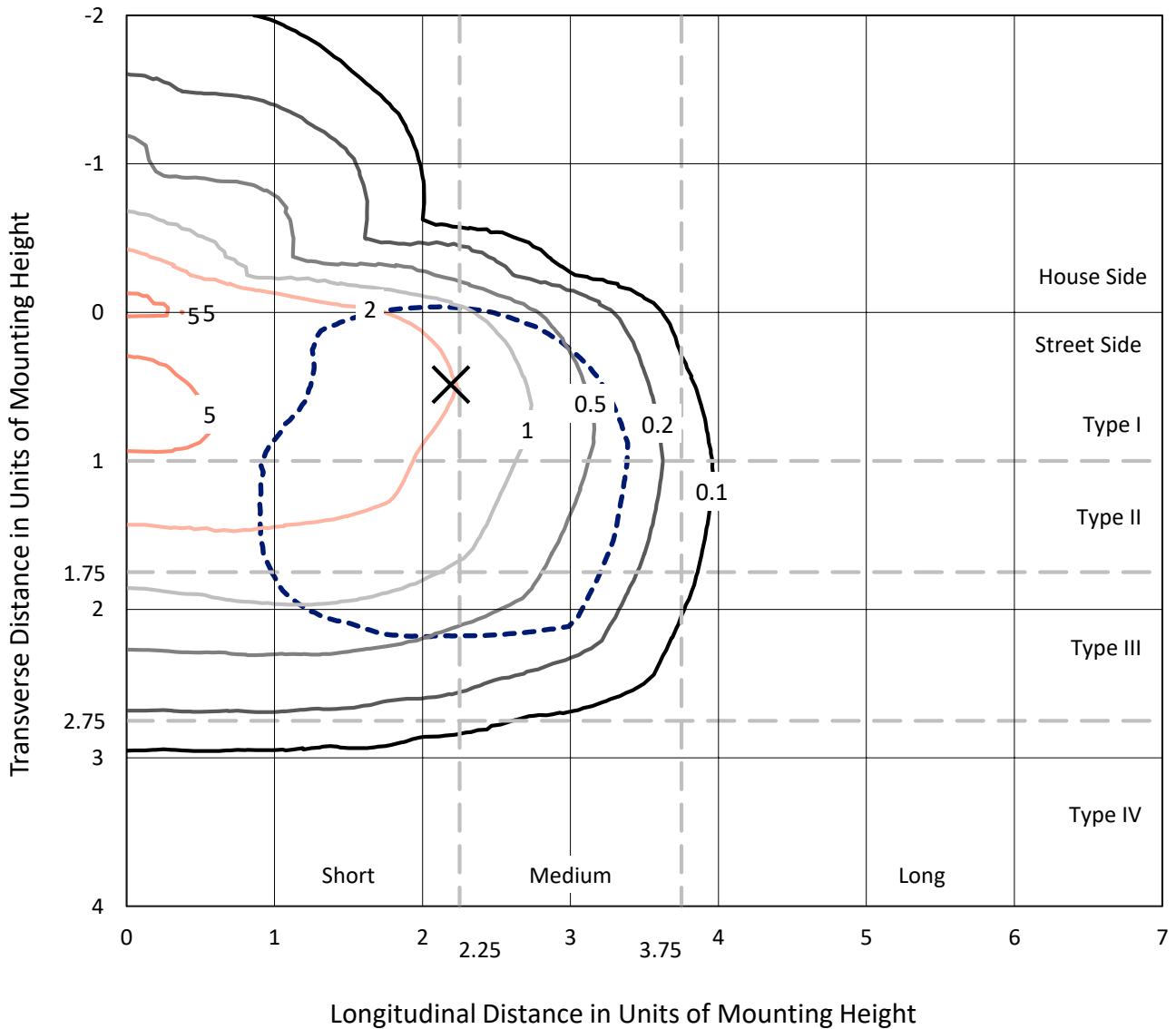


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

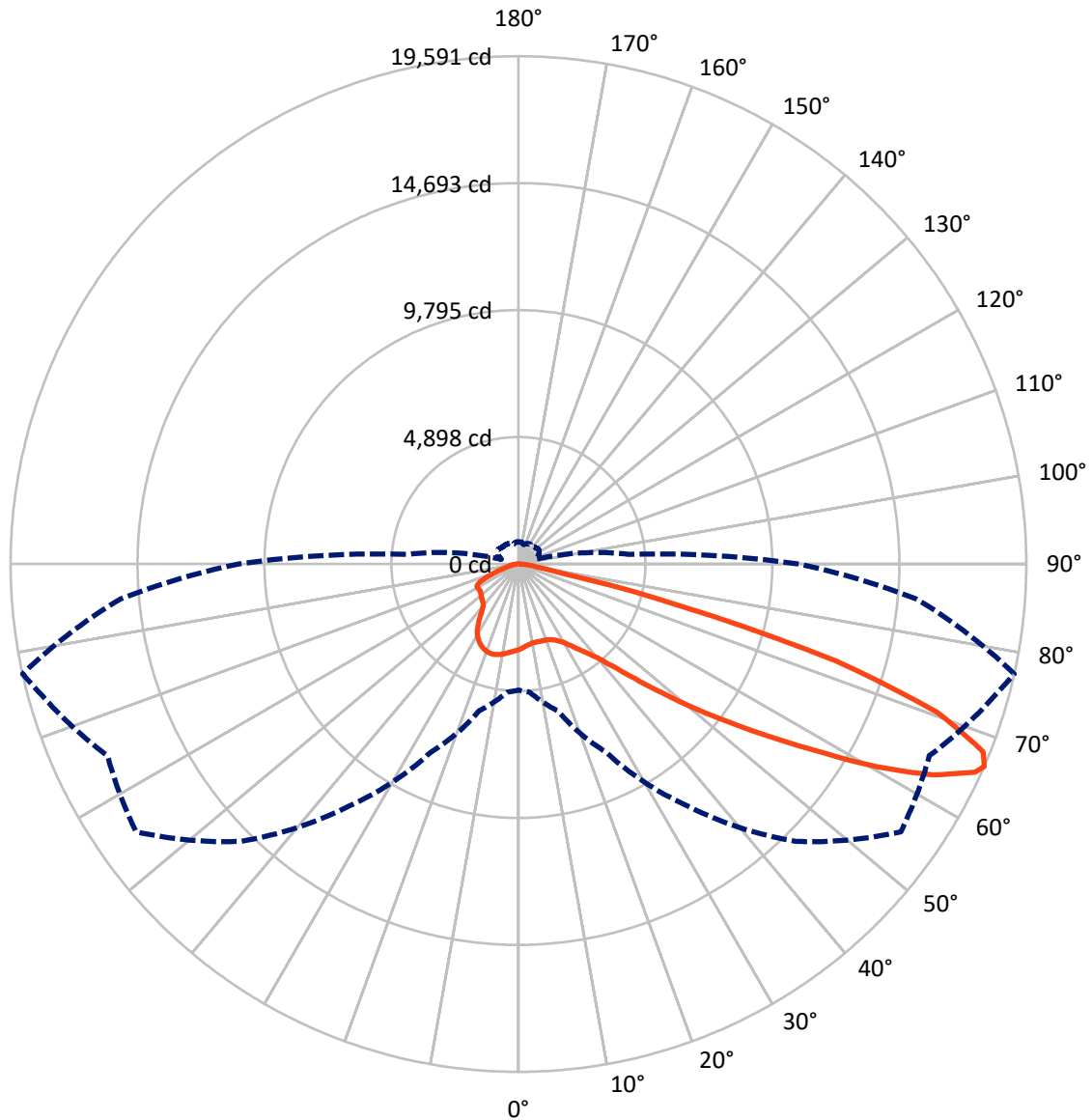


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3954.0	0.0	3954.0
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	19190.0	0.0	19190.0
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	23144.0	0.0	23144.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.7	1.3
10°-20°	831.3	3.6
20°-30°	1418.7	6.1
30°-40°	2271.1	9.8
40°-50°	3508.7	15.2
50°-60°	4976.5	21.5
60°-70°	6657.2	28.8
70°-80°	2891.1	12.5
80°-90°	294.8	1.3
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°	23144.0	100.0
0°-180°	23144.0	100.0



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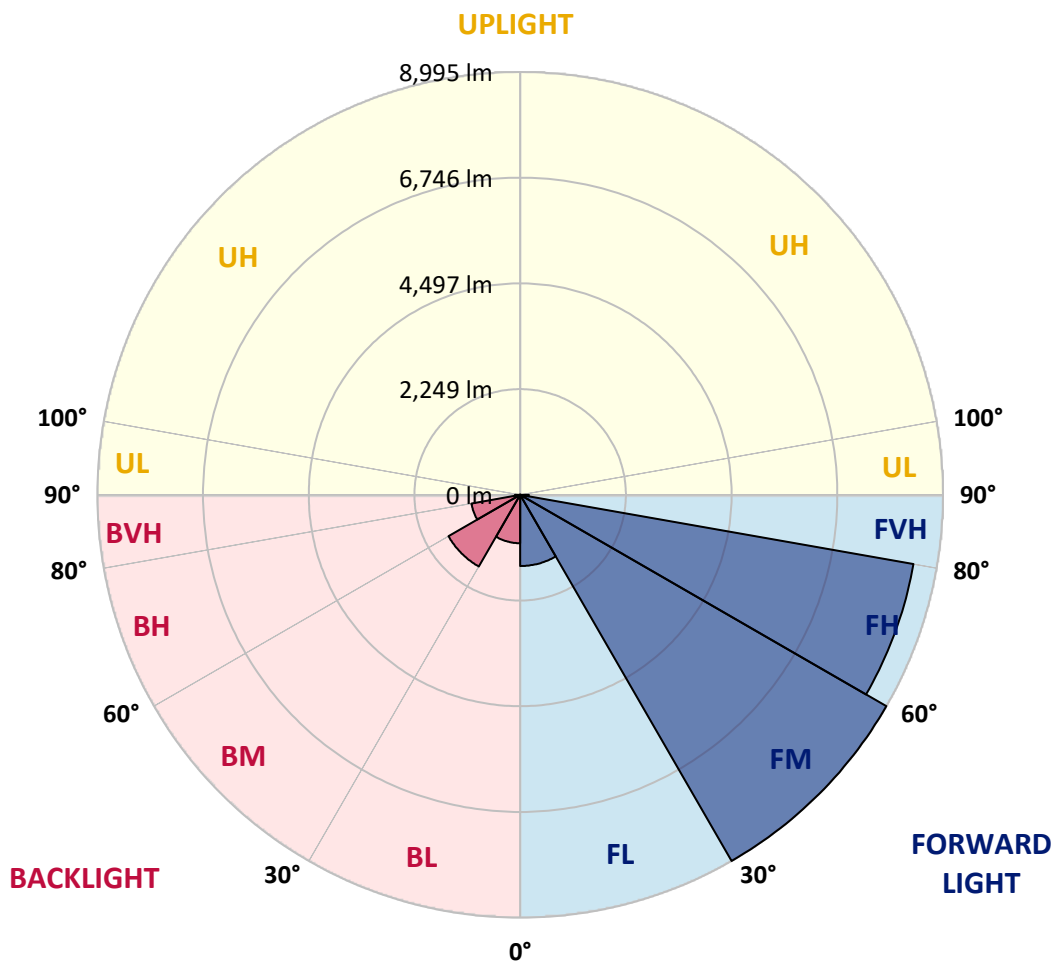
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.9	6.5			
FM	(30°-60°)	8995.0	38.9			
FH	(60°-80°)	8495.3	36.7			G4/12000
FVH	(80°-90°)	184.9	0.8			G2/225
BL	(0°-30°)	1029.8	4.4	B3/2500		
BM	(30°-60°)	1761.3	7.6	B2/2500		
BH	(60°-80°)	1053.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	109.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1
2.5°	2917.6	2937.3	2953.7	2969.0	2999.6	3049.9	3107.9	3154.9	3222.7	3235.8	3271.9
5°	2649.7	2649.7	2662.8	2685.7	2727.3	2802.8	2881.5	2986.5	3134.1	3169.1	3265.3
7.5°	2519.5	2520.6	2528.3	2548.0	2584.0	2652.9	2739.3	2862.9	3063.0	3121.0	3285.0
10°	2567.6	2556.7	2540.3	2530.5	2535.9	2576.4	2658.4	2796.2	3019.3	3093.6	3328.7
12.5°	2836.7	2815.9	2759.0	2683.6	2611.4	2581.9	2630.0	2764.5	3000.7	3087.1	3386.7
15°	3276.3	3267.5	3161.4	3005.1	2830.1	2683.6	2650.8	2752.5	3002.9	3094.7	3455.6
17.5°	3827.4	3815.4	3675.4	3447.9	3162.5	2877.1	2724.0	2762.3	3010.5	3107.9	3522.3
20°	4384.0	4346.8	4195.9	3924.7	3558.4	3140.7	2845.4	2787.4	3020.4	3122.1	3592.3
22.5°	4799.6	4768.9	4633.3	4369.8	3947.7	3445.8	3008.3	2831.2	3052.1	3163.6	3678.7
25°	5164.8	5167.0	5032.5	4777.7	4341.4	3769.4	3218.3	2948.2	3133.0	3248.9	3796.8
27.5°	5616.4	5590.2	5464.4	5211.8	4730.7	4096.4	3472.0	3108.9	3253.3	3370.3	3952.1
30°	6156.7	6138.1	5992.6	5706.1	5162.6	4447.4	3761.8	3295.9	3408.6	3530.0	4155.5
32.5°	6792.0	6783.3	6632.3	6263.8	5661.3	4860.8	4101.9	3543.1	3640.4	3766.2	4447.4
35°	7537.8	7538.9	7360.6	6917.8	6207.0	5342.0	4487.9	3861.3	3922.5	4053.8	4795.2
37.5°	7997.1	8052.9	7986.2	7534.5	6824.8	5880.0	4988.7	4283.4	4244.0	4376.4	5168.1
40°	8095.5	8163.3	8374.4	8144.7	7515.9	6472.7	5432.7	4689.1	4639.9	4801.8	5648.2
42.5°	7957.7	8051.8	8497.9	8659.8	8249.7	7203.2	6029.8	5291.7	5229.3	5446.9	6245.2
45°	7875.7	7945.7	8461.8	8927.7	8886.1	8028.8	6789.8	6048.4	6025.4	6310.8	6934.2
47.5°	7733.5	7797.0	8293.4	8990.0	9260.1	8785.5	7702.9	6973.5	7018.4	7392.4	7711.7
50°	7810.1	7836.3	8105.4	8831.5	9368.4	9340.0	8723.2	8045.2	8198.3	8665.2	8592.0
52.5°	7799.2	7867.0	8083.5	8571.2	9382.6	9682.2	9728.2	9240.5	9563.0	10098.9	9568.5
55°	6305.4	6430.0	7826.5	8505.6	9432.9	10018.0	10622.7	10500.2	11101.7	11726.1	10670.8
57.5°	6021.1	6099.8	6874.0	8643.4	9699.7	10658.8	11617.8	11886.8	12892.9	13617.9	12013.7
60°	5965.3	6062.6	6864.2	8811.8	10241.0	11703.1	13093.0	13565.4	15072.3	15866.2	13570.9
62.5°	5791.4	5896.4	6799.7	8789.9	11009.8	13147.7	14981.6	15350.1	17139.1	17911.2	14873.3
65°	5240.3	5338.7	6273.7	8436.7	11528.1	14689.6	17216.8	16986.0	18770.7	19351.4	15522.9
66°	4863.0	4959.2	5859.2	8021.1	11407.9	15127.0	18008.5	17492.3	19135.9	19590.8	15396.0
67.5°	4173.0	4248.4	5054.4	7090.5	10768.1	15249.5	18674.5	17872.9	19174.2	19335.0	14671.0
70°	2636.5	2658.4	3285.0	4894.7	8151.3	13225.3	17660.7	16928.1	17592.9	17157.7	12299.1
72.5°	1143.8	1136.2	1576.9	2490.0	4614.8	8874.1	14286.1	13967.8	13800.5	12807.6	8609.5
75°	636.4	645.2	819.1	1155.9	1875.4	4358.9	9345.4	8943.0	7550.9	6443.2	3904.0
77.5°	510.7	522.7	679.1	820.2	842.0	1520.0	4373.1	3558.4	2142.3	1719.1	1084.8
80°	403.5	425.4	592.7	638.6	567.5	626.6	1412.9	1129.6	847.5	777.5	562.1
82.5°	319.3	334.6	508.5	483.3	397.0	422.1	676.9	659.4	551.1	501.9	324.8
85°	229.6	258.1	417.7	364.2	260.3	284.3	449.4	430.9	316.0	258.1	143.3
87.5°	94.0	122.5	295.3	241.7	145.4	132.3	224.2	211.1	149.8	109.4	71.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1
2.5°	3294.8	3321.1	3355.0	3375.8	3386.7	3394.4	3406.4	3405.3	3408.6	3409.7	3414.0
5°	3316.7	3360.5	3409.7	3422.8	3422.8	3410.8	3398.7	3379.1	3371.4	3369.2	3371.4
7.5°	3373.6	3421.7	3464.3	3449.0	3416.2	3368.1	3305.8	3251.1	3221.6	3211.7	3209.6
10°	3445.8	3503.7	3521.2	3463.3	3367.0	3251.1	3127.5	3037.9	2986.5	2972.3	2967.9
12.5°	3533.2	3587.9	3563.9	3441.4	3263.1	3076.1	2905.5	2762.3	2655.1	2621.2	2619.0
15°	3629.5	3672.1	3587.9	3373.6	3107.9	2832.3	2528.3	2281.1	2147.7	2105.1	2101.8
17.5°	3719.1	3741.0	3573.7	3255.5	2879.3	2433.1	2029.6	1839.3	1793.4	1804.3	1806.5
20°	3795.7	3795.7	3525.6	3086.0	2519.5	1907.1	1652.3	1649.1	1681.9	1714.7	1721.2
22.5°	3879.9	3829.6	3441.4	2846.5	2009.9	1560.5	1523.3	1553.9	1591.1	1627.2	1632.7
25°	3983.8	3856.9	3324.4	2483.4	1580.2	1417.2	1431.4	1456.6	1475.2	1498.2	1501.4
27.5°	4099.7	3891.9	3170.2	1983.7	1371.3	1327.6	1338.5	1347.2	1345.1	1353.8	1356.0
30°	4238.6	3932.4	2959.1	1550.6	1284.9	1251.0	1231.3	1223.7	1223.7	1237.9	1243.4
32.5°	4424.5	3992.5	2656.2	1328.7	1243.4	1196.3	1132.9	1104.5	1115.4	1163.5	1174.5
35°	4629.0	4057.0	2246.1	1253.2	1234.6	1171.2	1072.8	1020.3	1021.4	1066.2	1080.4
37.5°	4852.1	4139.1	1796.7	1239.0	1254.3	1172.3	1041.1	968.9	939.4	939.4	944.8
40°	5137.5	4223.3	1454.4	1248.8	1295.9	1185.4	1024.7	928.4	845.3	847.5	851.9
42.5°	5509.3	4295.4	1270.7	1269.6	1346.2	1202.9	1023.6	874.8	802.7	851.9	896.7
45°	5922.6	4331.5	1189.8	1288.2	1386.6	1213.8	1006.1	866.1	808.1	954.7	1040.0
47.5°	6398.3	4310.8	1144.9	1294.8	1396.5	1213.8	986.4	886.9	846.4	1105.6	1205.1
50°	6919.9	4250.6	1101.2	1281.6	1393.2	1211.6	1005.0	907.6	860.6	1131.8	1200.7
52.5°	7533.4	4200.3	1055.3	1253.2	1370.2	1199.6	1026.8	898.9	815.8	1029.0	1077.1
55°	8233.3	4214.5	1003.9	1212.7	1334.1	1176.7	1019.2	863.9	768.8	906.5	936.1
57.5°	9127.8	4384.0	942.6	1161.3	1284.9	1138.4	991.8	847.5	754.5	822.3	839.8
60°	10126.2	4679.3	866.1	1109.9	1223.7	1077.1	971.1	855.2	761.1	815.8	824.5
62.5°	10858.9	4851.0	800.5	1034.5	1140.6	1009.3	944.8	865.0	778.6	838.7	836.6
65°	11057.9	4568.8	718.5	924.0	1027.9	938.3	912.0	875.9	786.3	857.3	847.5
66°	10779.1	4264.8	682.4	872.6	971.1	903.3	895.6	874.8	783.0	859.5	843.1
67.5°	10102.2	3641.5	620.0	797.2	880.3	850.8	869.4	865.0	774.2	857.3	834.4
70°	8238.8	2484.5	530.4	663.8	732.7	749.1	819.1	830.0	745.8	819.1	768.8
72.5°	5756.4	1513.5	469.1	515.1	592.7	638.6	750.2	781.9	707.5	715.2	667.1
75°	2782.0	803.8	425.4	399.1	460.4	533.6	667.1	716.3	647.4	598.2	580.7
77.5°	867.2	491.0	360.9	321.5	360.9	430.9	557.7	627.7	576.3	500.8	494.3
80°	465.8	360.9	277.8	258.1	285.4	337.9	438.5	523.8	495.4	449.4	401.3
82.5°	307.3	234.0	205.6	200.1	217.6	258.1	325.9	434.1	434.1	384.9	279.9
85°	158.6	143.3	141.1	141.1	152.0	171.7	222.0	334.6	356.5	203.4	168.4
87.5°	78.7	82.0	76.5	79.8	85.3	84.2	106.1	168.4	201.2	123.6	102.8
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)