

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: P192274

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192274  
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-06-LED-E1-T3R-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 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: 23982 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 193  
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

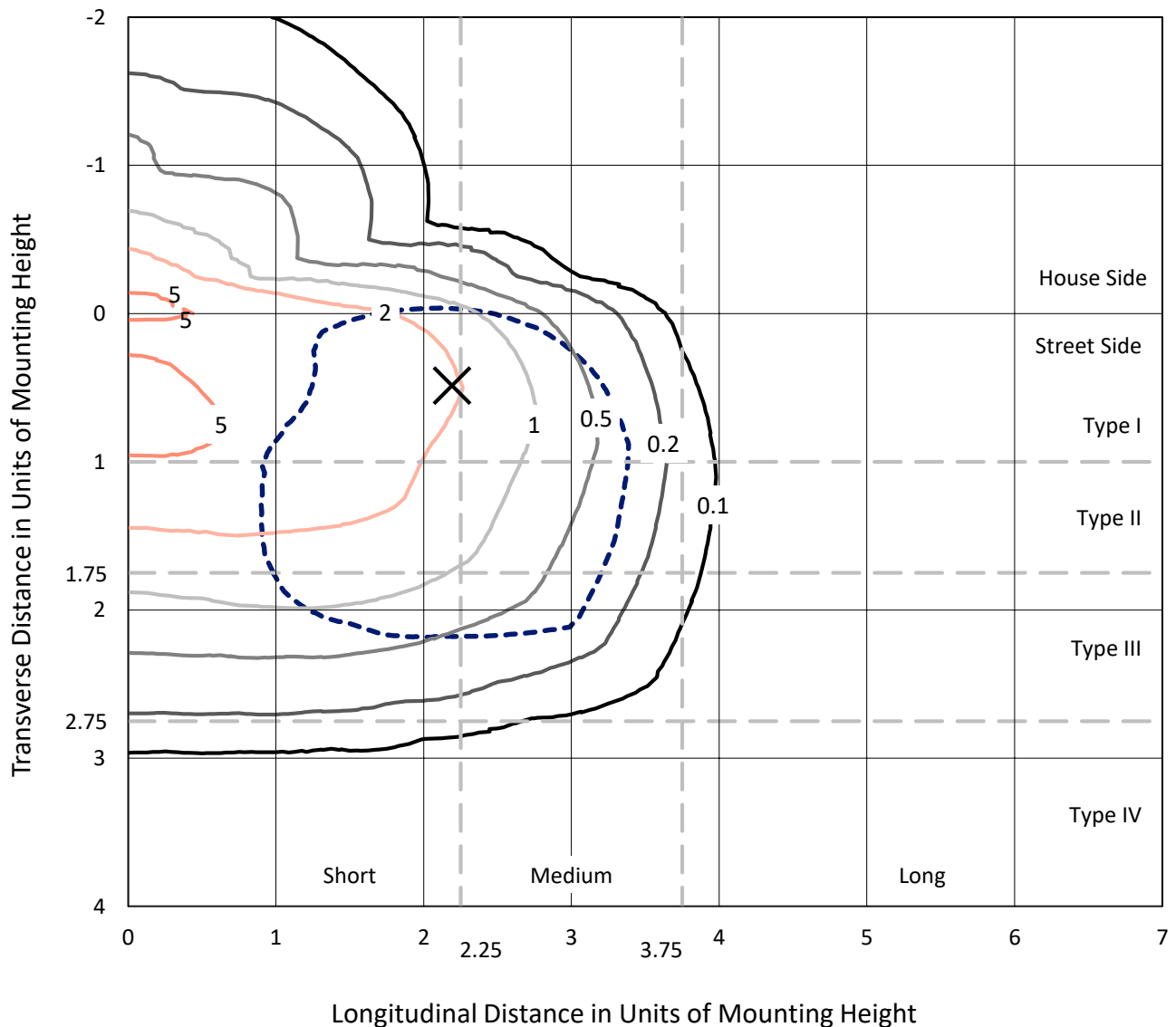


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

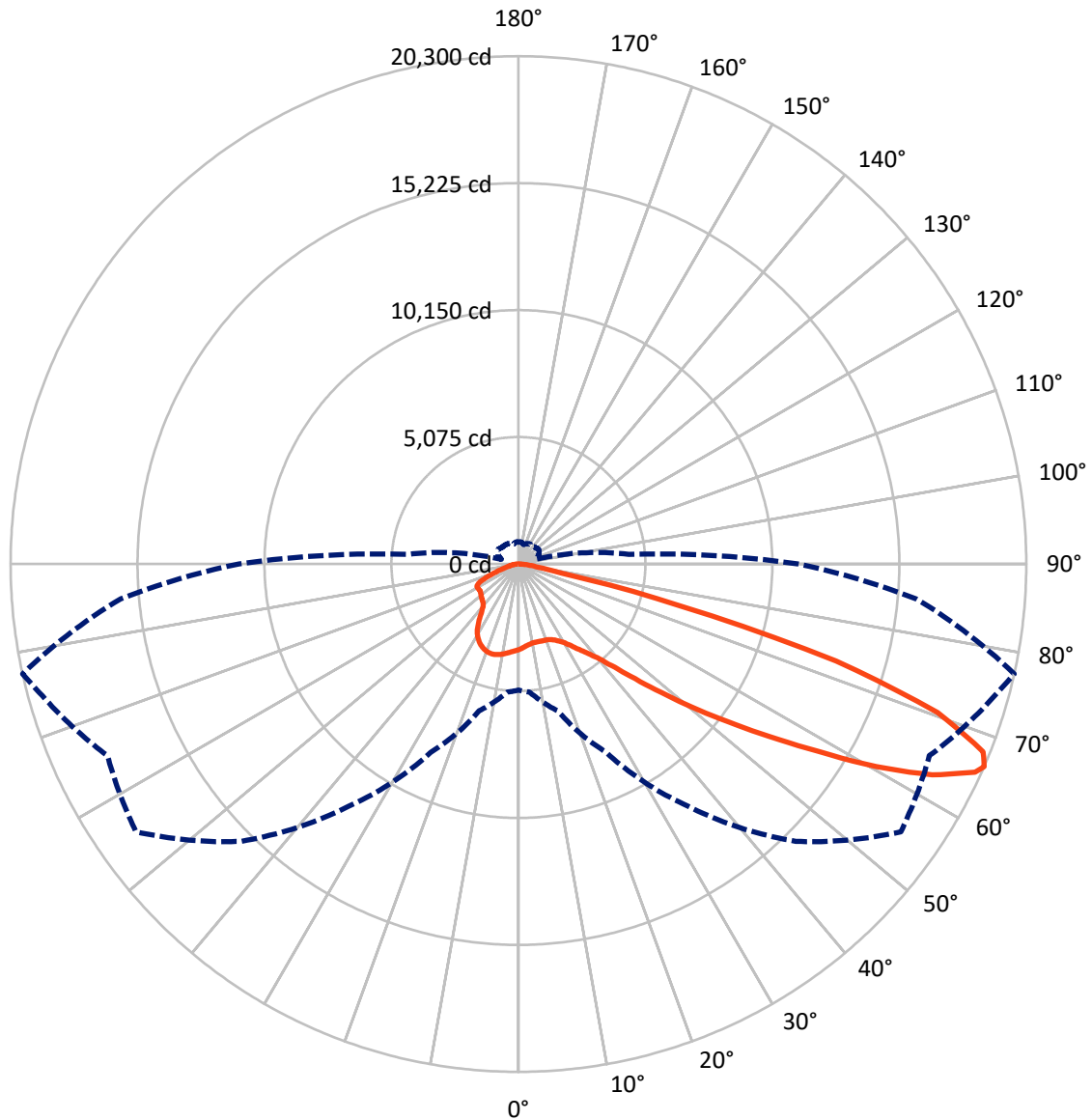


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - Full Cutoff

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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	4097.2	0.0	4097.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	19884.8	0.0	19884.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	23982.0	0.0	23982.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.3	1.3
10°-20°	861.4	3.6
20°-30°	1470.1	6.1
30°-40°	2353.3	9.8
40°-50°	3635.7	15.2
50°-60°	5156.7	21.5
60°-70°	6898.2	28.8
70°-80°	2995.8	12.5
80°-90°	305.5	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°	23982.0	100.0
0°-180°	23982.0	100.0



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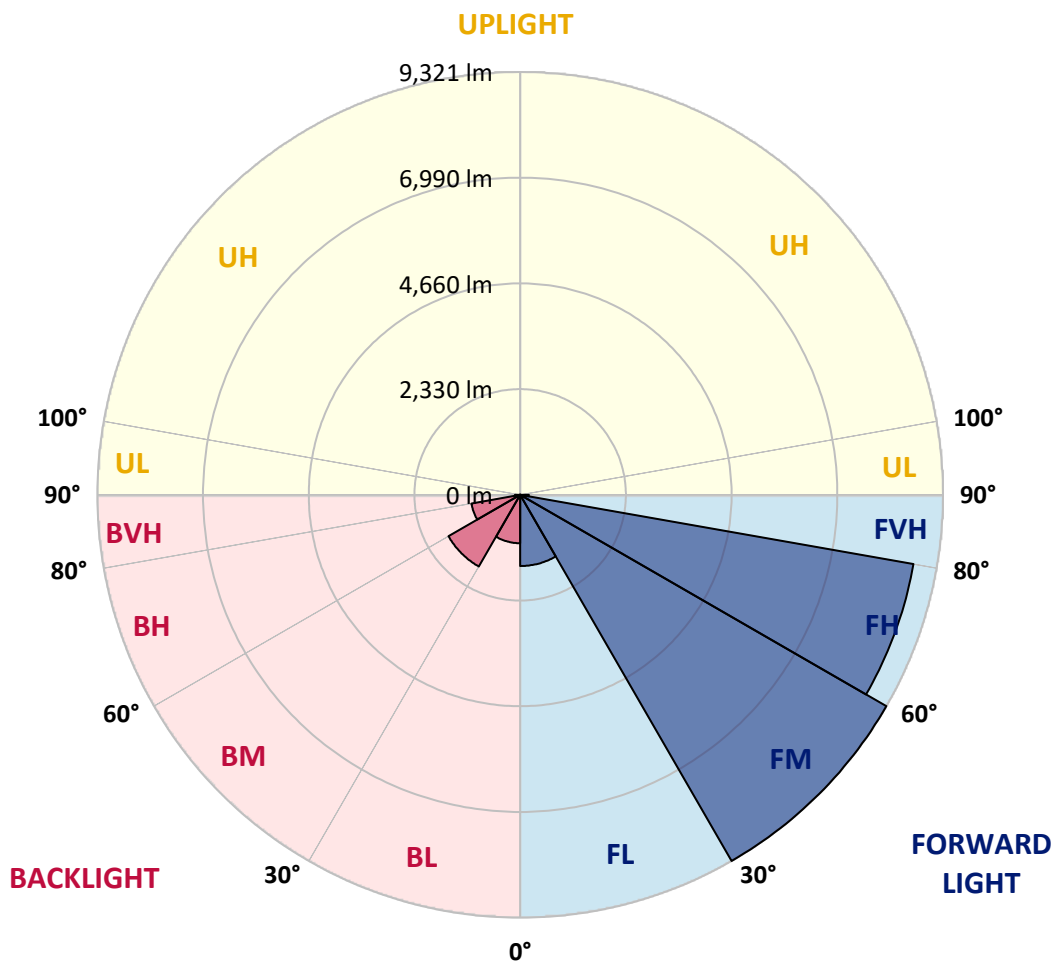
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1569.7	6.5			
FM	(30°-60°)	9320.7	38.9			
FH	(60°-80°)	8802.8	36.7			G4/12000
FVH	(80°-90°)	191.6	0.8			G2/225
BL	(0°-30°)	1067.1	4.4	B3/2500		
BM	(30°-60°)	1825.1	7.6	B2/2500		
BH	(60°-80°)	1091.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	113.9	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°	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5
2.5°	3023.2	3043.6	3060.6	3076.5	3108.2	3160.3	3220.4	3269.1	3339.4	3353.0	3390.4
5°	2745.6	2745.6	2759.2	2783.0	2826.1	2904.2	2985.8	3094.6	3247.6	3283.8	3383.6
7.5°	2610.8	2611.9	2619.8	2640.2	2677.6	2749.0	2838.5	2966.6	3173.9	3234.0	3404.0
10°	2660.6	2649.3	2632.3	2622.1	2627.8	2669.7	2754.7	2897.4	3128.6	3205.7	3449.3
12.5°	2939.4	2917.8	2858.9	2780.7	2705.9	2675.3	2725.2	2864.6	3109.3	3198.9	3509.3
15°	3394.9	3385.8	3275.9	3113.9	2932.6	2780.7	2746.7	2852.1	3111.6	3206.8	3580.7
17.5°	3966.0	3953.5	3808.5	3572.8	3277.0	2981.3	2822.7	2862.3	3119.5	3220.4	3649.8
20°	4542.8	4504.2	4347.9	4066.8	3687.2	3254.4	2948.4	2888.4	3129.7	3235.1	3722.4
22.5°	4973.3	4941.6	4801.1	4528.0	4090.6	3570.5	3117.3	2933.7	3162.6	3278.2	3811.9
25°	5351.8	5354.1	5214.7	4950.7	4498.6	3905.9	3334.8	3054.9	3246.4	3366.6	3934.3
27.5°	5819.8	5792.6	5662.3	5400.5	4902.0	4244.7	3597.7	3221.5	3371.1	3492.3	4095.2
30°	6379.6	6360.3	6209.6	5912.7	5349.6	4608.5	3898.0	3415.3	3532.0	3657.8	4305.9
32.5°	7037.9	7028.9	6872.5	6490.6	5866.3	5036.8	4250.4	3671.4	3772.2	3902.5	4608.5
35°	7810.7	7811.9	7627.2	7168.2	6431.7	5535.4	4650.4	4001.1	4064.6	4200.5	4968.8
37.5°	8286.6	8344.4	8275.3	7807.3	7071.9	6092.9	5169.4	4438.5	4397.7	4534.8	5355.2
40°	8388.6	8458.9	8677.6	8439.6	7788.1	6707.1	5629.4	4858.9	4807.9	4975.6	5852.7
42.5°	8245.9	8343.3	8805.6	8973.3	8548.4	7464.0	6248.1	5483.3	5418.7	5644.2	6471.4
45°	8160.9	8233.4	8768.2	9251.0	9207.9	8319.5	7035.7	6267.4	6243.6	6539.3	7185.2
47.5°	8013.6	8079.3	8593.7	9315.5	9595.4	9103.6	7981.8	7226.0	7272.5	7660.0	7990.9
50°	8092.9	8120.1	8398.8	9151.2	9707.6	9678.1	9039.1	8336.5	8495.1	8979.0	8903.1
52.5°	8081.6	8151.8	8376.2	8881.5	9722.3	10032.8	10080.4	9575.0	9909.3	10464.5	9915.0
55°	6533.7	6662.9	8109.9	8813.6	9774.5	10380.7	11007.3	10880.4	11503.6	12150.7	11057.2
57.5°	6239.1	6320.7	7122.9	8956.3	10050.9	11044.7	12038.5	12317.2	13359.7	14111.0	12448.7
60°	6181.3	6282.1	7112.7	9130.8	10611.9	12126.9	13567.1	14056.6	15618.1	16440.7	14062.3
62.5°	6001.1	6109.9	7045.9	9108.2	11408.4	13623.7	15524.0	15905.9	17759.7	18559.7	15411.8
65°	5430.0	5532.0	6500.8	8742.2	11945.6	15221.5	17840.1	17601.1	19450.3	20052.0	16084.9
66°	5039.1	5138.8	6071.4	8311.6	11820.9	15674.7	18660.5	18125.7	19828.8	20300.2	15953.5
67.5°	4324.1	4402.2	5237.4	7347.3	11158.0	15801.6	19350.6	18520.0	19868.5	20035.0	15202.2
70°	2732.0	2754.7	3404.0	5071.9	8446.4	13704.2	18300.2	17541.0	18229.9	17779.0	12744.4
72.5°	1185.3	1177.3	1634.0	2580.2	4781.8	9195.4	14803.3	14473.6	14300.2	13271.3	8921.2
75°	659.5	668.6	848.7	1197.7	1943.3	4516.7	9683.8	9266.8	7824.3	6676.5	4045.3
77.5°	529.2	541.6	703.7	849.9	872.5	1575.1	4531.4	3687.2	2219.8	1781.3	1124.1
80°	418.1	440.8	614.2	661.8	588.1	649.3	1464.0	1170.5	878.2	805.7	582.4
82.5°	330.9	346.7	526.9	500.8	411.3	437.4	701.4	683.3	571.1	520.1	336.5
85°	238.0	267.4	432.9	377.3	269.7	294.6	465.7	446.5	327.5	267.4	148.4
87.5°	97.5	126.9	305.9	250.4	150.7	137.1	232.3	218.7	155.2	113.3	73.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5	3417.5
2.5°	3414.1	3441.3	3476.5	3498.0	3509.3	3517.3	3529.7	3528.6	3532.0	3533.1	3537.7
5°	3436.8	3482.1	3533.1	3546.7	3546.7	3534.3	3521.8	3501.4	3493.5	3491.2	3493.5
7.5°	3495.7	3545.6	3589.8	3573.9	3539.9	3490.1	3425.5	3368.8	3338.2	3328.0	3325.8
10°	3570.5	3630.6	3648.7	3588.7	3488.9	3368.8	3240.8	3147.9	3094.6	3079.9	3075.3
12.5°	3661.2	3717.8	3692.9	3566.0	3381.3	3187.5	3010.8	2862.3	2751.3	2716.1	2713.9
15°	3760.9	3805.1	3717.8	3495.7	3220.4	2934.8	2619.8	2363.7	2225.5	2181.3	2177.9
17.5°	3853.8	3876.5	3703.1	3373.4	2983.6	2521.2	2103.1	1905.9	1858.3	1869.7	1871.9
20°	3933.1	3933.1	3653.2	3197.7	2610.8	1976.2	1712.2	1708.8	1742.8	1776.8	1783.6
22.5°	4020.4	3968.3	3566.0	2949.6	2082.7	1617.0	1578.5	1610.2	1648.7	1686.1	1691.8
25°	4128.0	3996.6	3444.7	2573.4	1637.4	1468.5	1483.3	1509.3	1528.6	1552.4	1555.8
27.5°	4248.1	4032.8	3285.0	2055.5	1421.0	1375.6	1387.0	1396.0	1393.8	1402.8	1405.1
30°	4392.0	4074.8	3066.3	1606.8	1331.4	1296.3	1275.9	1268.0	1268.0	1282.7	1288.4
32.5°	4584.7	4137.1	2752.4	1376.8	1288.4	1239.7	1173.9	1144.5	1155.8	1205.7	1217.0
35°	4796.6	4203.9	2327.5	1298.6	1279.3	1213.6	1111.6	1057.2	1058.4	1104.8	1119.5
37.5°	5027.7	4288.9	1861.7	1283.8	1299.7	1214.7	1078.7	1004.0	973.4	973.4	979.0
40°	5323.5	4376.2	1507.1	1294.0	1342.8	1228.3	1061.8	962.0	875.9	878.2	882.7
42.5°	5708.8	4451.0	1316.7	1315.6	1394.9	1246.5	1060.6	906.5	831.7	882.7	929.2
45°	6137.1	4488.4	1232.9	1334.8	1436.8	1257.8	1042.5	897.4	837.4	989.2	1077.6
47.5°	6630.0	4466.8	1186.4	1341.6	1447.0	1257.8	1022.1	919.0	877.1	1145.6	1248.7
50°	7170.5	4404.5	1141.1	1328.0	1443.6	1255.5	1041.4	940.5	891.8	1172.8	1244.2
52.5°	7806.2	4352.4	1093.5	1298.6	1419.8	1243.1	1064.0	931.4	845.3	1066.3	1116.1
55°	8531.4	4367.1	1040.2	1256.7	1382.4	1219.3	1056.1	895.2	796.6	939.4	970.0
57.5°	9458.3	4542.8	976.8	1203.4	1331.4	1179.6	1027.8	878.2	781.9	852.1	870.3
60°	10492.9	4848.7	897.4	1150.1	1268.0	1116.1	1006.2	886.1	788.7	845.3	854.4
62.5°	11252.1	5026.6	829.5	1072.0	1181.9	1045.9	979.0	896.3	806.8	869.1	866.9
65°	11458.3	4734.3	744.5	957.5	1065.2	972.2	945.0	907.6	814.7	888.4	878.2
66°	11169.4	4419.2	707.1	904.2	1006.2	936.0	928.0	906.5	811.3	890.6	873.7
67.5°	10467.9	3773.4	642.5	826.1	912.2	881.6	900.8	896.3	802.3	888.4	864.6
70°	8537.1	2574.5	549.6	687.8	759.2	776.2	848.7	860.1	772.8	848.7	796.6
72.5°	5964.8	1568.3	486.1	533.7	614.2	661.8	777.3	810.2	733.1	741.1	691.2
75°	2882.7	832.9	440.8	413.6	477.1	553.0	691.2	742.2	670.8	619.8	601.7
77.5°	898.6	508.8	373.9	333.1	373.9	446.5	577.9	650.4	597.2	519.0	512.2
80°	482.7	373.9	287.8	267.4	295.7	350.1	454.4	542.8	513.3	465.7	415.9
82.5°	318.4	242.5	213.0	207.4	225.5	267.4	337.7	449.9	449.9	398.9	290.1
85°	164.3	148.4	146.2	146.2	157.5	177.9	230.0	346.7	369.4	210.8	174.5
87.5°	81.6	85.0	79.3	82.7	88.4	87.3	109.9	174.5	208.5	128.0	106.5
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)