

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: P269431

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269431  
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-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25550.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 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): 249  
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

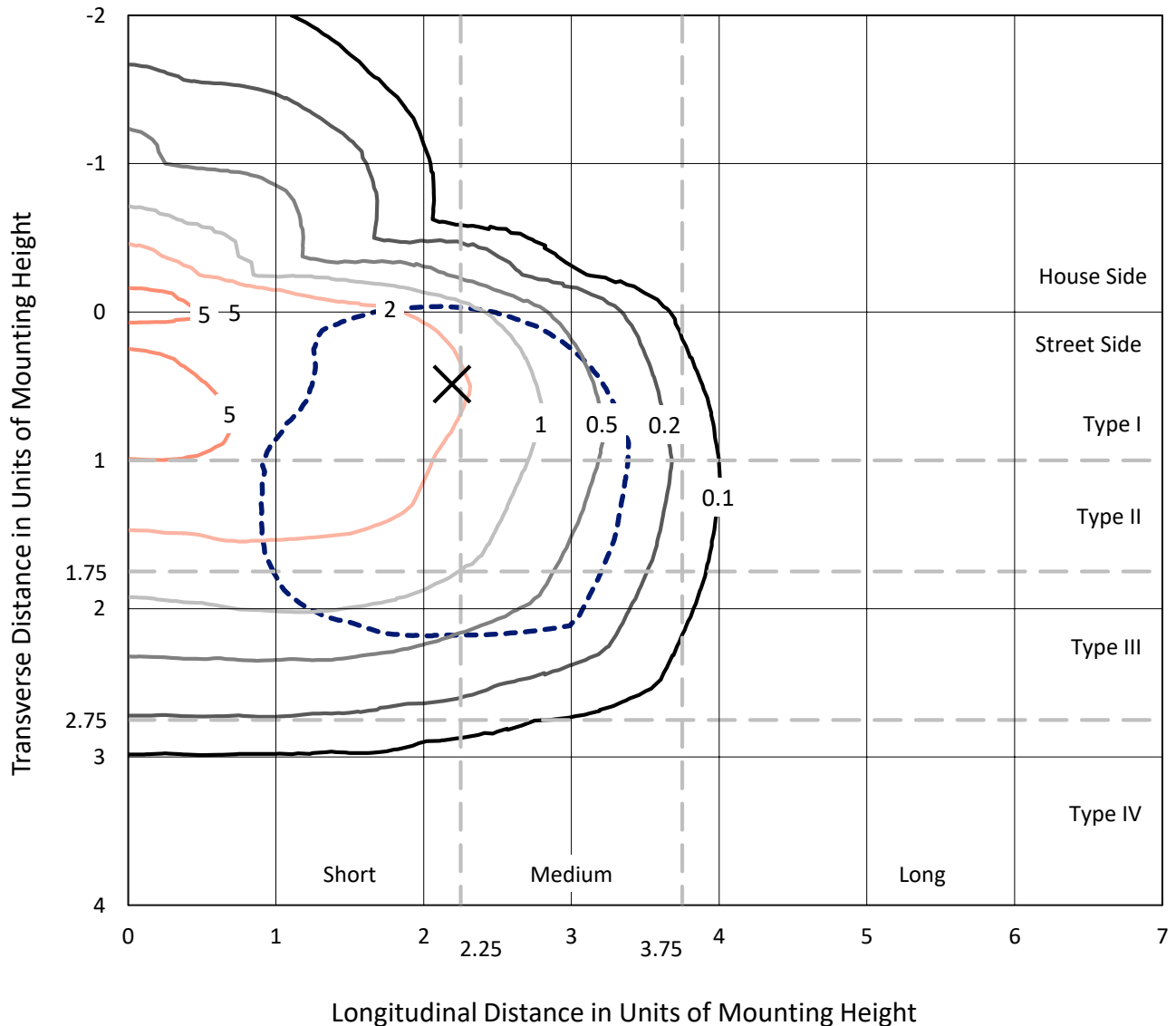


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

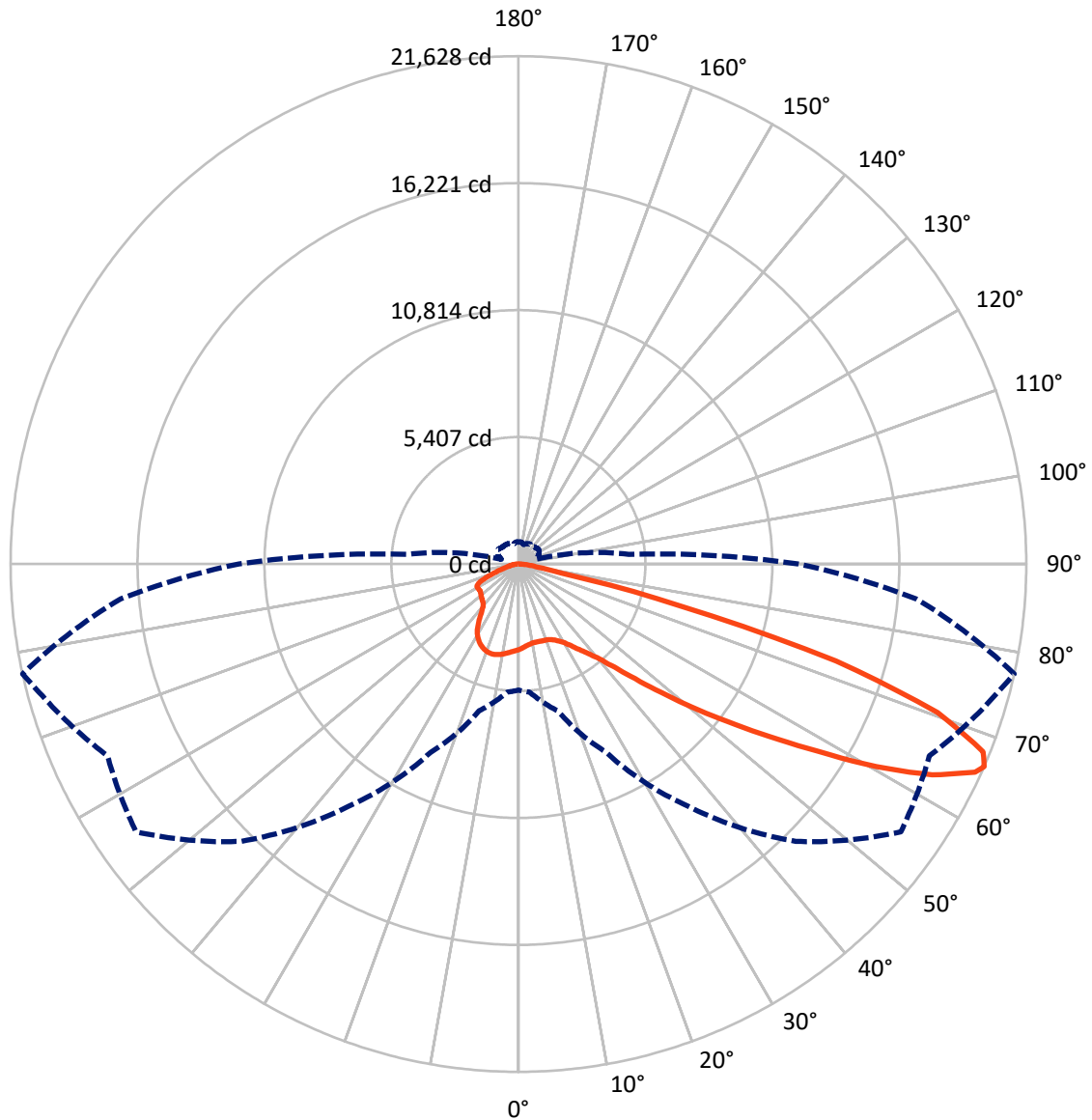


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - Full Cutoff

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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	4365.2	0.0	4365.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	21185.7	0.0	21185.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	25550.9	0.0	25550.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.3	1.3
10°-20°	917.7	3.6
20°-30°	1566.3	6.1
30°-40°	2507.3	9.8
40°-50°	3873.5	15.2
50°-60°	5494.0	21.5
60°-70°	7349.5	28.8
70°-80°	3191.7	12.5
80°-90°	325.5	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°	25550.9	100.0
0°-180°	25550.9	100.0



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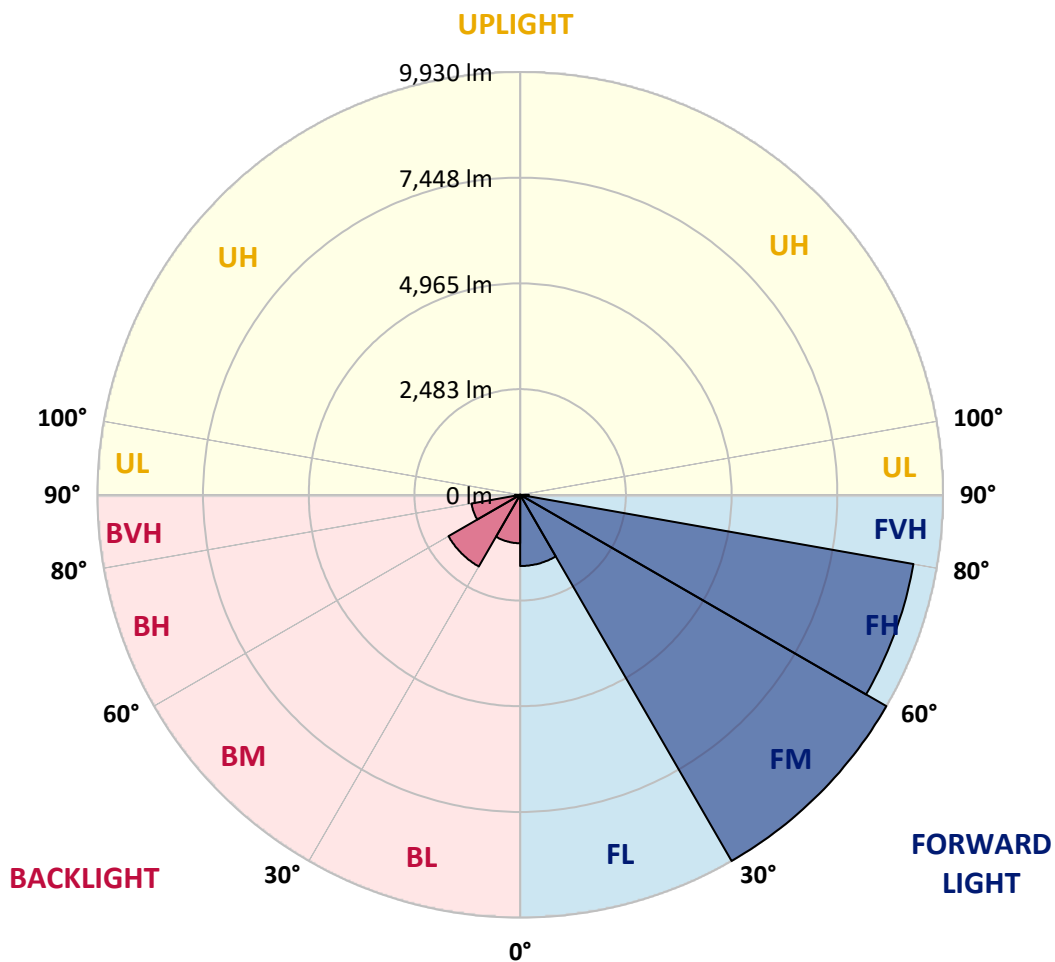
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1672.4	6.5			
FM	(30°-60°)	9930.4	38.9			
FH	(60°-80°)	9378.7	36.7			G4/12000
FVH	(80°-90°)	204.1	0.8			G2/225
BL	(0°-30°)	1136.9	4.4	B3/2500		
BM	(30°-60°)	1944.5	7.6	B2/2500		
BH	(60°-80°)	1162.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	121.3	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°	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1
2.5°	3221.1	3242.7	3260.8	3277.7	3311.5	3367.0	3431.0	3483.0	3557.8	3572.3	3612.2
5°	2925.2	2925.2	2939.8	2965.0	3010.8	3094.2	3181.2	3297.0	3460.0	3498.7	3604.9
7.5°	2781.5	2782.8	2791.3	2813.0	2852.7	2928.8	3024.2	3160.6	3381.6	3445.5	3626.6
10°	2834.7	2822.7	2804.5	2793.5	2799.7	2844.4	2934.9	3086.9	3333.3	3415.4	3675.0
12.5°	3131.6	3108.8	3046.0	2962.6	2883.0	2850.3	2903.5	3052.0	3312.8	3408.1	3738.9
15°	3616.9	3607.4	3490.3	3317.6	3124.5	2962.6	2926.4	3038.6	3315.1	3416.6	3815.0
17.5°	4225.4	4212.2	4057.6	3806.5	3491.4	3176.3	3007.3	3049.6	3323.5	3431.0	3888.7
20°	4840.0	4798.8	4632.3	4332.9	3928.5	3467.3	3141.4	3077.4	3334.5	3446.7	3965.8
22.5°	5298.7	5264.8	5115.2	4824.3	4358.2	3804.1	3321.3	3125.7	3369.5	3492.6	4061.2
25°	5701.9	5704.3	5555.8	5274.6	4792.8	4161.5	3552.9	3254.7	3458.8	3586.8	4191.6
27.5°	6200.6	6171.5	6032.7	5753.9	5222.7	4522.4	3833.1	3432.2	3591.7	3720.8	4363.1
30°	6796.9	6776.5	6615.8	6299.5	5699.6	4910.0	4153.0	3638.8	3763.1	3897.0	4587.6
32.5°	7498.3	7488.7	7322.1	6915.2	6250.0	5366.4	4528.4	3911.6	4018.9	4157.9	4910.0
35°	8321.7	8322.9	8126.2	7637.2	6852.5	5897.6	4954.6	4262.8	4330.5	4475.4	5293.9
37.5°	8828.7	8890.3	8816.7	8318.0	7534.5	6491.5	5507.6	4728.9	4685.4	4831.5	5705.6
40°	8937.3	9012.2	9245.3	8991.8	8297.6	7145.8	5997.8	5176.8	5122.4	5301.1	6235.6
42.5°	8785.3	8889.1	9381.7	9560.4	9107.6	7952.2	6656.9	5841.9	5773.1	6013.4	6894.8
45°	8694.8	8771.9	9341.8	9856.2	9810.3	8863.8	7495.9	6677.5	6652.0	6967.2	7655.3
47.5°	8537.9	8607.7	9156.0	9925.0	10223.3	9699.2	8504.1	7698.7	7748.3	8161.1	8513.6
50°	8622.3	8651.2	8948.2	9749.9	10342.6	10311.3	9630.4	8881.9	9051.0	9566.4	9485.6
52.5°	8610.3	8685.2	8924.1	9462.6	10358.4	10689.1	10739.9	10201.4	10557.6	11149.1	10563.6
55°	6961.1	7098.8	8640.4	9390.2	10414.0	11059.8	11727.5	11592.2	12256.2	12945.6	11780.6
57.5°	6647.2	6734.1	7588.9	9542.2	10708.4	11767.3	12826.0	13123.0	14233.7	15034.2	13263.0
60°	6585.7	6693.1	7578.0	9728.1	11306.1	12920.2	14454.6	14976.3	16639.8	17516.3	14982.2
62.5°	6393.6	6509.6	7506.7	9704.0	12154.7	14515.1	16539.7	16946.4	18921.4	19773.9	16420.1
65°	5785.3	5893.9	6926.1	9314.0	12727.0	16217.2	19007.2	18752.5	20722.8	21363.9	17137.1
66°	5368.7	5475.0	6468.5	8855.3	12594.2	16700.2	19881.3	19311.6	21126.0	21628.2	16997.2
67.5°	4607.0	4690.2	5580.0	7827.9	11888.0	16835.3	20616.6	19731.6	21168.3	21345.7	16196.7
70°	2910.7	2934.9	3626.6	5403.8	8999.0	14600.7	19497.4	18688.6	19422.6	18942.1	13578.2
72.5°	1262.7	1254.4	1740.8	2749.0	5094.6	9796.9	15771.8	15420.5	15235.8	14139.5	9504.8
75°	702.7	712.3	904.2	1276.1	2070.5	4812.2	10317.4	9873.0	8336.2	7113.1	4310.0
77.5°	563.7	577.2	749.7	905.4	929.6	1678.2	4827.9	3928.5	2365.1	1897.8	1197.6
80°	445.5	469.6	654.3	705.0	626.6	691.8	1559.7	1247.0	935.7	858.4	620.5
82.5°	352.6	369.5	561.4	533.7	438.3	466.0	747.3	727.9	608.4	554.2	358.6
85°	253.5	284.9	461.2	402.0	287.4	313.9	496.1	475.7	348.9	284.9	158.1
87.5°	103.8	135.3	325.9	266.7	160.5	146.1	247.6	233.0	165.4	120.7	78.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1
2.5°	3637.4	3666.5	3703.9	3726.9	3738.9	3747.4	3760.7	3759.4	3763.1	3764.3	3769.1
5°	3661.6	3709.9	3764.3	3778.8	3778.8	3765.4	3752.2	3730.4	3721.9	3719.6	3721.9
7.5°	3724.5	3777.6	3824.7	3807.7	3771.5	3718.4	3649.5	3589.2	3556.6	3545.8	3543.4
10°	3804.1	3868.1	3887.4	3823.5	3717.1	3589.2	3452.7	3353.8	3297.0	3281.4	3276.6
12.5°	3900.7	3961.0	3934.4	3799.3	3602.6	3396.0	3207.7	3049.6	2931.3	2893.8	2891.5
15°	4006.9	4054.1	3961.0	3724.5	3431.0	3126.8	2791.3	2518.4	2371.0	2323.9	2320.4
17.5°	4106.0	4130.0	3945.4	3594.1	3178.7	2686.2	2240.7	2030.6	1980.0	1992.0	1994.3
20°	4190.5	4190.5	3892.3	3406.9	2781.5	2105.4	1824.2	1820.5	1856.7	1893.0	1900.3
22.5°	4283.4	4227.9	3799.3	3142.5	2219.0	1722.8	1681.7	1715.6	1756.5	1796.4	1802.4
25°	4398.1	4258.1	3670.0	2741.6	1744.5	1564.6	1580.3	1608.1	1628.5	1654.0	1657.6
27.5°	4526.1	4296.7	3499.8	2190.0	1514.0	1465.7	1477.7	1487.4	1485.0	1494.6	1497.0
30°	4679.5	4341.4	3266.9	1711.9	1418.6	1381.1	1359.3	1351.0	1351.0	1366.6	1372.7
32.5°	4884.7	4407.8	2932.4	1466.8	1372.7	1320.8	1250.7	1219.3	1231.3	1284.5	1296.7
35°	5110.4	4478.9	2479.7	1383.5	1363.0	1293.0	1184.3	1126.4	1127.6	1177.0	1192.8
37.5°	5356.7	4569.5	1983.5	1367.8	1384.7	1294.2	1149.3	1069.6	1037.1	1037.1	1043.1
40°	5671.8	4662.5	1605.7	1378.7	1430.6	1308.7	1131.2	1025.0	933.2	935.7	940.4
42.5°	6082.2	4742.2	1402.9	1401.6	1486.2	1328.1	1130.0	965.8	886.2	940.4	989.9
45°	6538.6	4781.9	1313.5	1422.1	1530.8	1340.1	1110.7	956.2	892.1	1053.9	1148.2
47.5°	7063.7	4759.1	1264.0	1429.5	1541.8	1340.1	1088.9	979.2	934.4	1220.5	1330.4
50°	7639.5	4692.7	1215.8	1414.9	1538.1	1337.7	1109.4	1002.0	950.0	1249.5	1325.5
52.5°	8316.9	4637.1	1165.0	1383.5	1512.7	1324.5	1133.7	992.4	900.6	1136.0	1189.1
55°	9089.5	4652.9	1108.2	1338.8	1473.0	1298.9	1125.1	953.7	848.7	1000.8	1033.4
57.5°	10077.0	4840.0	1040.6	1282.2	1418.6	1256.8	1095.0	935.7	833.0	907.8	927.2
60°	11179.2	5166.0	956.2	1225.4	1351.0	1189.1	1072.0	944.1	840.3	900.6	910.3
62.5°	11988.2	5355.4	883.8	1142.0	1259.2	1114.3	1043.1	955.0	859.6	926.0	923.5
65°	12208.0	5044.0	793.2	1020.1	1134.7	1035.8	1006.9	967.0	868.0	946.5	935.7
66°	11900.0	4708.3	753.4	963.4	1072.0	997.2	988.8	965.8	864.3	948.9	930.9
67.5°	11152.7	4020.3	684.5	880.1	971.8	939.3	959.7	955.0	854.7	946.5	921.1
70°	9095.6	2743.0	585.5	732.7	808.8	827.0	904.2	916.4	823.3	904.2	848.7
72.5°	6355.1	1670.8	518.0	568.6	654.3	705.0	828.1	863.2	781.0	789.6	736.4
75°	3071.2	887.3	469.6	440.7	508.4	589.2	736.4	790.8	714.7	660.3	641.1
77.5°	957.4	542.0	398.4	354.9	398.4	475.7	615.7	693.0	636.2	552.9	545.7
80°	514.3	398.4	306.6	284.9	315.0	373.1	484.0	578.2	546.9	496.1	443.0
82.5°	339.2	258.4	226.9	221.0	240.2	284.9	359.9	479.2	479.2	425.0	309.0
85°	175.1	158.1	155.8	155.8	167.9	189.5	245.1	369.5	393.5	224.5	185.9
87.5°	87.0	90.5	84.5	88.2	94.1	93.0	117.0	185.9	222.2	136.5	113.5
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)