

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: P194026

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194026  
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-08-LED-E1-T3R-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 32157 lumens  
Efficiency: N/A  
Efficacy: 96.3 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): 334  
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

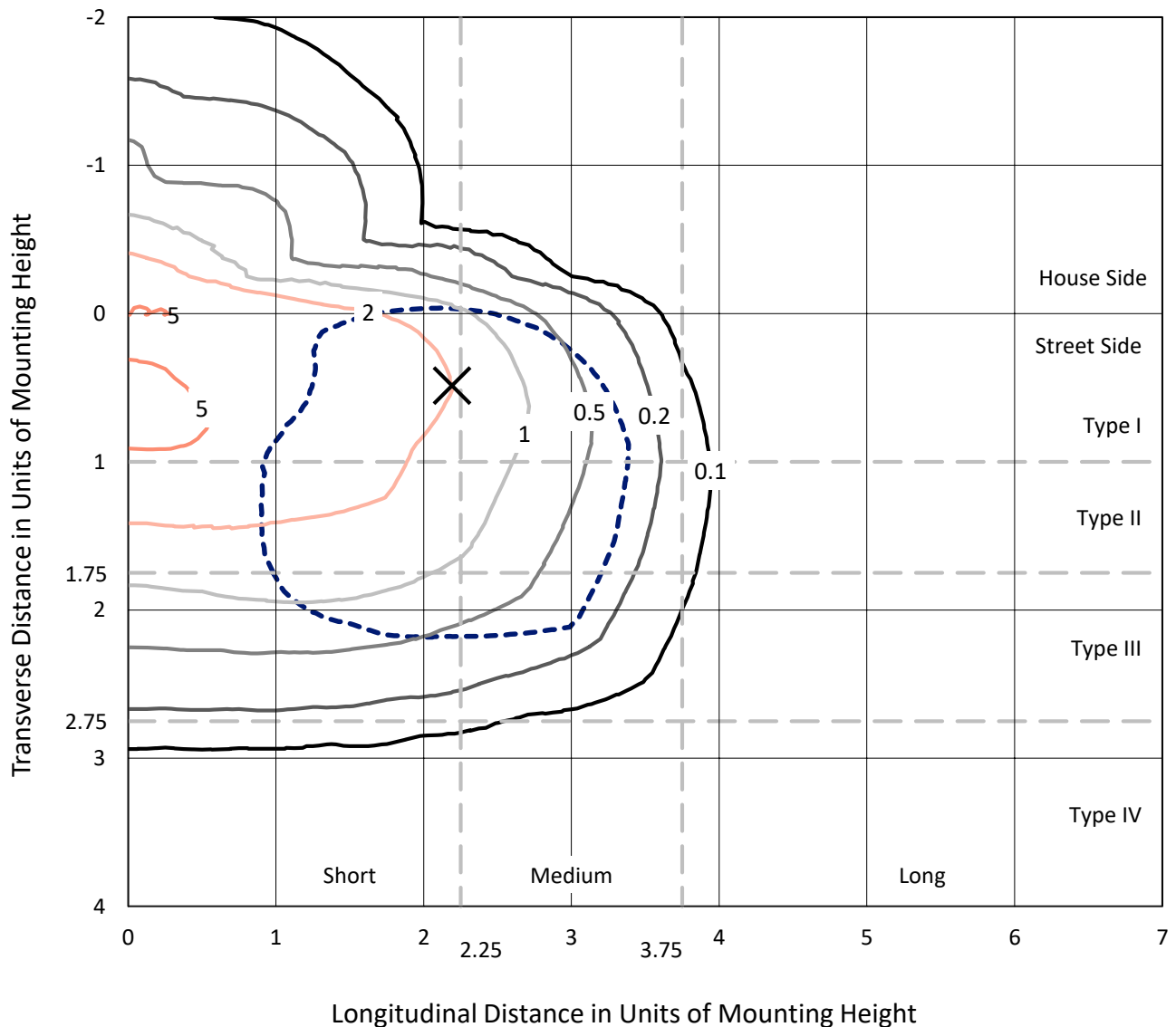


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

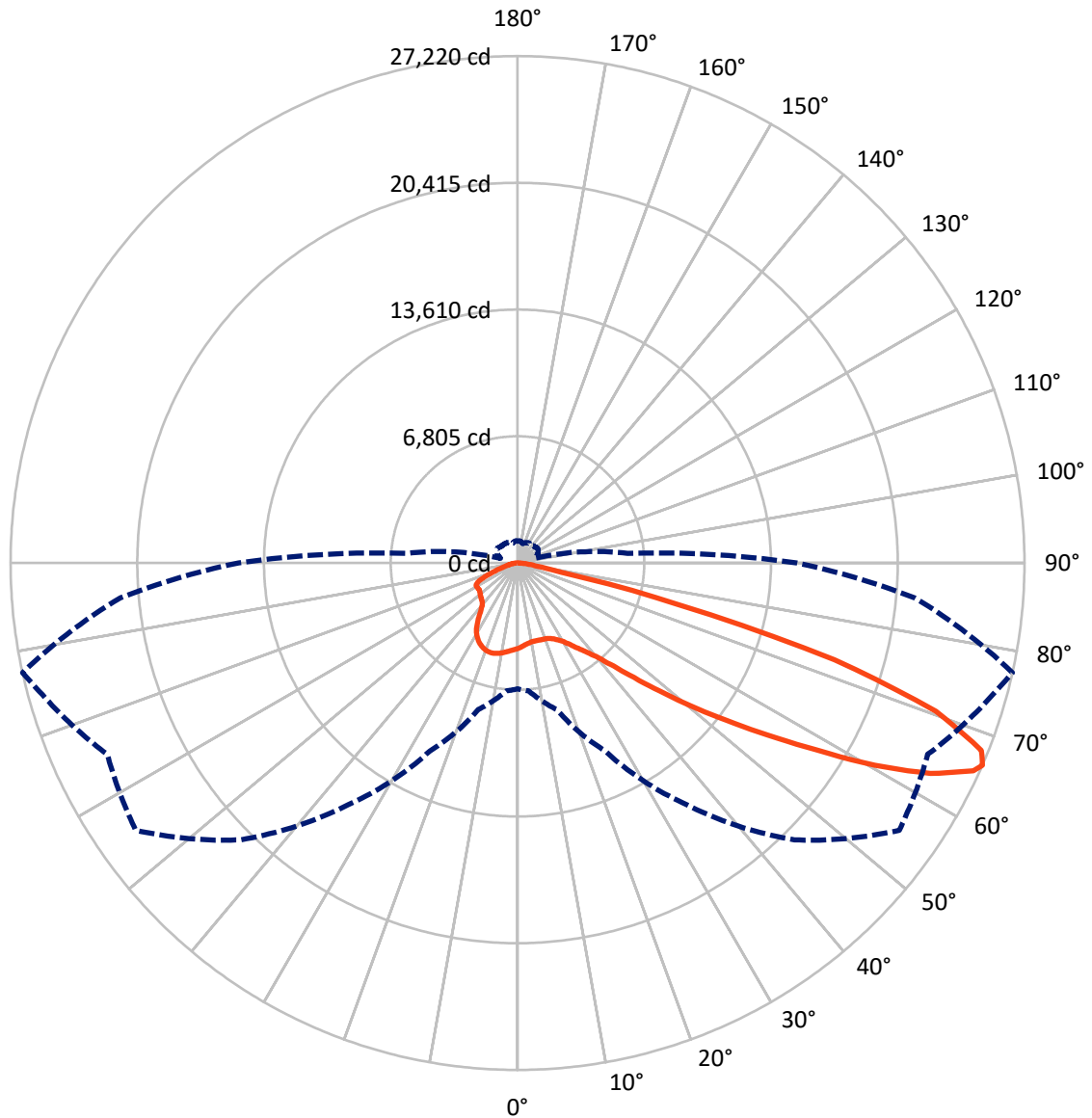


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - Full Cutoff

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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	5493.8	0.0	5493.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	26663.2	0.0	26663.2
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	32157.0	0.0	32157.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.4	1.3
10°-20°	1155.0	3.6
20°-30°	1971.2	6.1
30°-40°	3155.6	9.8
40°-50°	4875.0	15.2
50°-60°	6914.5	21.5
60°-70°	9249.7	28.8
70°-80°	4017.0	12.5
80°-90°	409.6	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°	32157.0	100.0
0°-180°	32157.0	100.0



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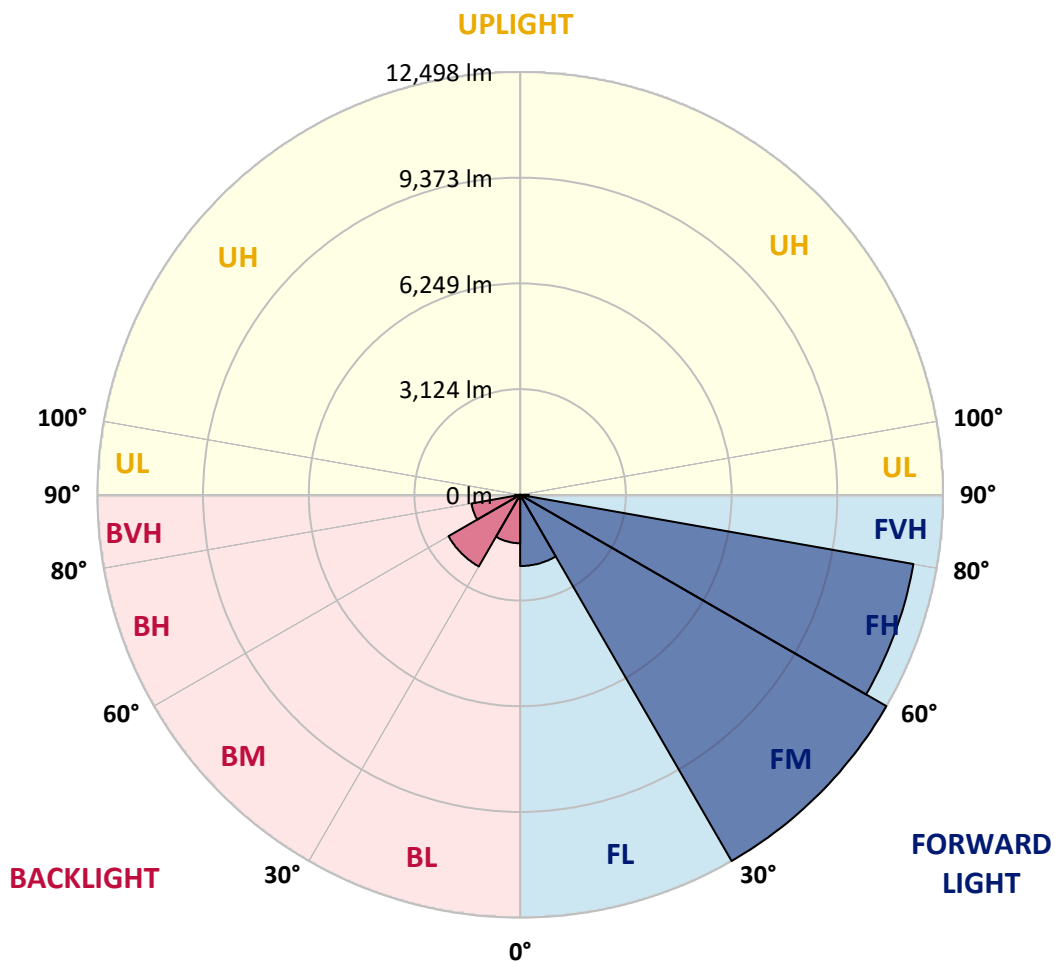
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2104.8	6.5			
FM	(30°-60°)	12497.9	38.9			
FH	(60°-80°)	11803.6	36.7			G4/12000
FVH	(80°-90°)	256.9	0.8			G3/500
BL	(0°-30°)	1430.8	4.4	B3/2500		
BM	(30°-60°)	2447.2	7.6	B2/2500		
BH	(60°-80°)	1463.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	152.7	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°	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5
2.5°	4053.8	4081.1	4103.9	4125.2	4167.7	4237.6	4318.1	4383.5	4477.7	4495.9	4546.1
5°	3681.5	3681.5	3699.8	3731.7	3789.4	3894.2	4003.6	4149.5	4354.6	4403.2	4536.9
7.5°	3500.7	3502.2	3512.9	3540.2	3590.4	3686.1	3806.1	3977.8	4255.9	4336.4	4564.3
10°	3567.6	3552.4	3529.6	3515.9	3523.5	3579.7	3693.7	3885.1	4195.1	4298.4	4625.1
12.5°	3941.3	3912.5	3833.5	3728.6	3628.3	3587.3	3654.2	3841.1	4169.2	4289.3	4705.6
15°	4552.1	4540.0	4392.6	4175.3	3932.2	3728.6	3683.0	3824.3	4172.3	4299.9	4801.3
17.5°	5317.9	5301.2	5106.7	4790.7	4394.1	3997.6	3784.8	3838.0	4182.9	4318.1	4894.0
20°	6091.3	6039.6	5830.0	5453.1	4944.1	4363.7	3953.5	3873.0	4196.6	4337.9	4991.2
22.5°	6668.7	6626.1	6437.7	6071.5	5485.1	4787.6	4179.9	3933.7	4240.7	4395.6	5111.3
25°	7176.1	7179.2	6992.3	6638.3	6032.0	5237.4	4471.6	4096.3	4353.1	4514.2	5275.4
27.5°	7803.7	7767.2	7592.5	7241.5	6572.9	5691.7	4824.1	4319.7	4520.2	4682.8	5491.1
30°	8554.2	8528.4	8326.3	7928.3	7173.1	6179.4	5226.8	4579.5	4736.0	4904.6	5773.7
32.5°	9437.0	9424.9	9215.2	8703.2	7866.0	6753.8	5699.3	4922.9	5058.1	5232.8	6179.4
35°	10473.3	10474.8	10227.1	9611.8	8624.1	7422.3	6235.6	5365.0	5450.1	5632.4	6662.6
37.5°	11111.4	11188.9	11096.2	10468.7	9482.6	8169.8	6931.5	5951.5	5896.8	6080.7	7180.7
40°	11248.2	11342.4	11635.6	11316.5	10442.9	8993.4	7548.4	6515.2	6446.8	6671.7	7847.7
42.5°	11056.7	11187.4	11807.3	12032.2	11462.4	10008.3	8378.0	7352.4	7265.8	7568.2	8677.3
45°	10942.8	11040.0	11757.2	12404.4	12346.7	11155.5	9434.0	8403.8	8371.9	8768.5	9634.5
47.5°	10745.2	10833.4	11523.2	12491.0	12866.3	12206.9	10702.7	9689.2	9751.5	10271.2	10714.8
50°	10851.6	10888.1	11261.8	12270.7	13016.7	12977.2	12120.3	11178.3	11391.0	12039.8	11938.0
52.5°	10836.4	10930.6	11231.4	11909.1	13036.5	13452.8	13516.6	12839.0	13287.2	14031.7	13294.8
55°	8760.9	8934.1	10874.4	11817.9	13106.4	13919.3	14759.5	14589.3	15425.0	16292.6	14826.4
57.5°	8365.8	8475.2	9551.0	12009.4	13477.1	14809.6	16142.2	16515.9	17913.8	18921.1	16692.2
60°	8288.4	8423.6	9537.3	12243.4	14229.2	16260.7	18191.8	18848.2	20942.0	22045.0	18855.8
62.5°	8046.8	8192.6	9447.7	12213.0	15297.4	18267.8	20815.8	21327.9	23813.6	24886.3	20665.4
65°	7281.0	7417.7	8716.8	11722.2	16017.6	20410.2	23921.5	23600.9	26080.6	26887.4	21568.0
66°	6756.8	6890.5	8141.0	11144.8	15850.4	21017.9	25021.6	24304.4	26588.1	27220.1	21391.7
67.5°	5798.0	5902.9	7022.7	9851.8	14961.6	21188.1	25946.9	24833.2	26641.2	26864.6	20384.3
70°	3663.3	3693.7	4564.3	6800.9	11325.6	18375.7	24538.4	23520.4	24444.2	23839.5	17088.7
72.5°	1589.3	1578.7	2191.0	3459.7	6411.9	12330.0	19849.5	19407.4	19174.9	17795.3	11962.3
75°	884.3	896.4	1138.0	1606.0	2605.8	6056.3	12984.8	12425.7	10491.5	8952.3	5424.3
77.5°	709.6	726.3	943.6	1139.6	1169.9	2112.0	6076.1	4944.1	2976.5	2388.5	1507.2
80°	560.7	591.0	823.5	887.3	788.6	870.6	1963.1	1569.5	1177.5	1080.3	781.0
82.5°	443.7	464.9	706.5	671.6	551.5	586.5	940.5	916.2	765.8	697.4	451.3
85°	319.1	358.6	580.4	506.0	361.6	395.0	624.5	598.6	439.1	358.6	199.0
87.5°	130.7	170.2	410.2	335.8	202.1	183.8	311.5	293.2	208.2	151.9	98.8
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°	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5	4582.5
2.5°	4578.0	4614.4	4661.5	4690.4	4705.6	4716.2	4732.9	4731.4	4736.0	4737.5	4743.6
5°	4608.4	4669.1	4737.5	4755.7	4755.7	4739.0	4722.3	4695.0	4684.3	4681.3	4684.3
7.5°	4687.4	4754.2	4813.5	4792.2	4746.6	4679.8	4593.2	4517.2	4476.2	4462.5	4459.5
10°	4787.6	4868.2	4892.5	4812.0	4678.2	4517.2	4345.5	4220.9	4149.5	4129.7	4123.7
12.5°	4909.2	4985.2	4951.7	4781.6	4533.9	4274.1	4037.1	3838.0	3689.1	3642.0	3639.0
15°	5042.9	5102.2	4985.2	4687.4	4318.1	3935.3	3512.9	3169.5	2984.1	2924.9	2920.3
17.5°	5167.5	5197.9	4965.4	4523.3	4000.6	3380.7	2820.0	2555.6	2491.8	2507.0	2510.1
20°	5273.9	5273.9	4898.6	4287.8	3500.7	2649.8	2295.8	2291.3	2336.8	2382.4	2391.5
22.5°	5390.8	5321.0	4781.6	3955.0	2792.7	2168.2	2116.5	2159.1	2210.7	2260.9	2268.5
25°	5535.2	5358.9	4619.0	3450.6	2195.5	1969.1	1988.9	2023.8	2049.7	2081.6	2086.1
27.5°	5696.2	5407.6	4404.8	2756.2	1905.3	1844.6	1859.8	1871.9	1868.9	1881.0	1884.1
30°	5889.2	5463.8	4111.5	2154.5	1785.3	1738.2	1710.8	1700.2	1700.2	1720.0	1727.6
32.5°	6147.5	5547.3	3690.6	1846.1	1727.6	1662.2	1574.1	1534.6	1549.8	1616.6	1631.8
35°	6431.6	5637.0	3120.9	1741.2	1715.4	1627.3	1490.5	1417.6	1419.1	1481.4	1501.2
37.5°	6741.6	5750.9	2496.4	1721.5	1742.8	1628.8	1446.5	1346.2	1305.2	1305.2	1312.8
40°	7138.2	5867.9	2020.8	1735.2	1800.5	1647.0	1423.7	1290.0	1174.5	1177.5	1183.6
42.5°	7654.8	5968.2	1765.5	1764.0	1870.4	1671.3	1422.2	1215.5	1115.2	1183.6	1245.9
45°	8229.1	6018.4	1653.1	1789.9	1926.6	1686.5	1397.9	1203.4	1122.8	1326.4	1445.0
47.5°	8890.0	5989.5	1590.8	1799.0	1940.3	1686.5	1370.5	1232.2	1176.0	1536.1	1674.4
50°	9614.8	5905.9	1530.0	1780.7	1935.7	1683.5	1396.3	1261.1	1195.8	1572.6	1668.3
52.5°	10467.2	5836.0	1466.2	1741.2	1903.8	1666.8	1426.7	1249.0	1133.5	1429.8	1496.6
55°	11439.6	5855.8	1394.8	1685.0	1853.7	1634.9	1416.1	1200.3	1068.1	1259.6	1300.6
57.5°	12682.5	6091.3	1309.7	1613.6	1785.3	1581.7	1378.1	1177.5	1048.4	1142.6	1166.9
60°	14069.7	6501.5	1203.4	1542.2	1700.2	1496.6	1349.2	1188.2	1057.5	1133.5	1145.6
62.5°	15087.7	6740.1	1112.2	1437.4	1584.7	1402.4	1312.8	1201.8	1081.8	1165.4	1162.3
65°	15364.2	6348.1	998.2	1283.9	1428.2	1303.6	1267.2	1217.0	1092.5	1191.2	1177.5
66°	14976.8	5925.7	948.1	1212.5	1349.2	1255.0	1244.4	1215.5	1087.9	1194.3	1171.5
67.5°	14036.3	5059.6	861.5	1107.6	1223.1	1182.1	1207.9	1201.8	1075.7	1191.2	1159.3
70°	11447.2	3452.1	736.9	922.3	1018.0	1040.8	1138.0	1153.2	1036.2	1138.0	1068.1
72.5°	7998.1	2102.9	651.8	715.6	823.5	887.3	1042.3	1086.4	983.1	993.7	926.8
75°	3865.4	1116.8	591.0	554.6	639.7	741.5	926.8	995.2	899.5	831.1	806.8
77.5°	1204.9	682.2	501.4	446.7	501.4	598.6	774.9	872.1	800.7	695.9	686.8
80°	647.3	501.4	385.9	358.6	396.6	469.5	609.3	727.8	688.3	624.5	557.6
82.5°	427.0	325.2	285.6	278.1	302.4	358.6	452.8	603.2	603.2	534.8	389.0
85°	220.3	199.0	196.0	196.0	211.2	238.5	308.4	464.9	495.3	282.6	234.0
87.5°	109.4	114.0	106.4	110.9	118.5	117.0	147.4	234.0	279.6	171.7	142.8
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)