

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: P191464

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39958.5 lumens
Efficiency: N/A
Efficacy: 104.6 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 - G5

Input Watts (W): 382
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

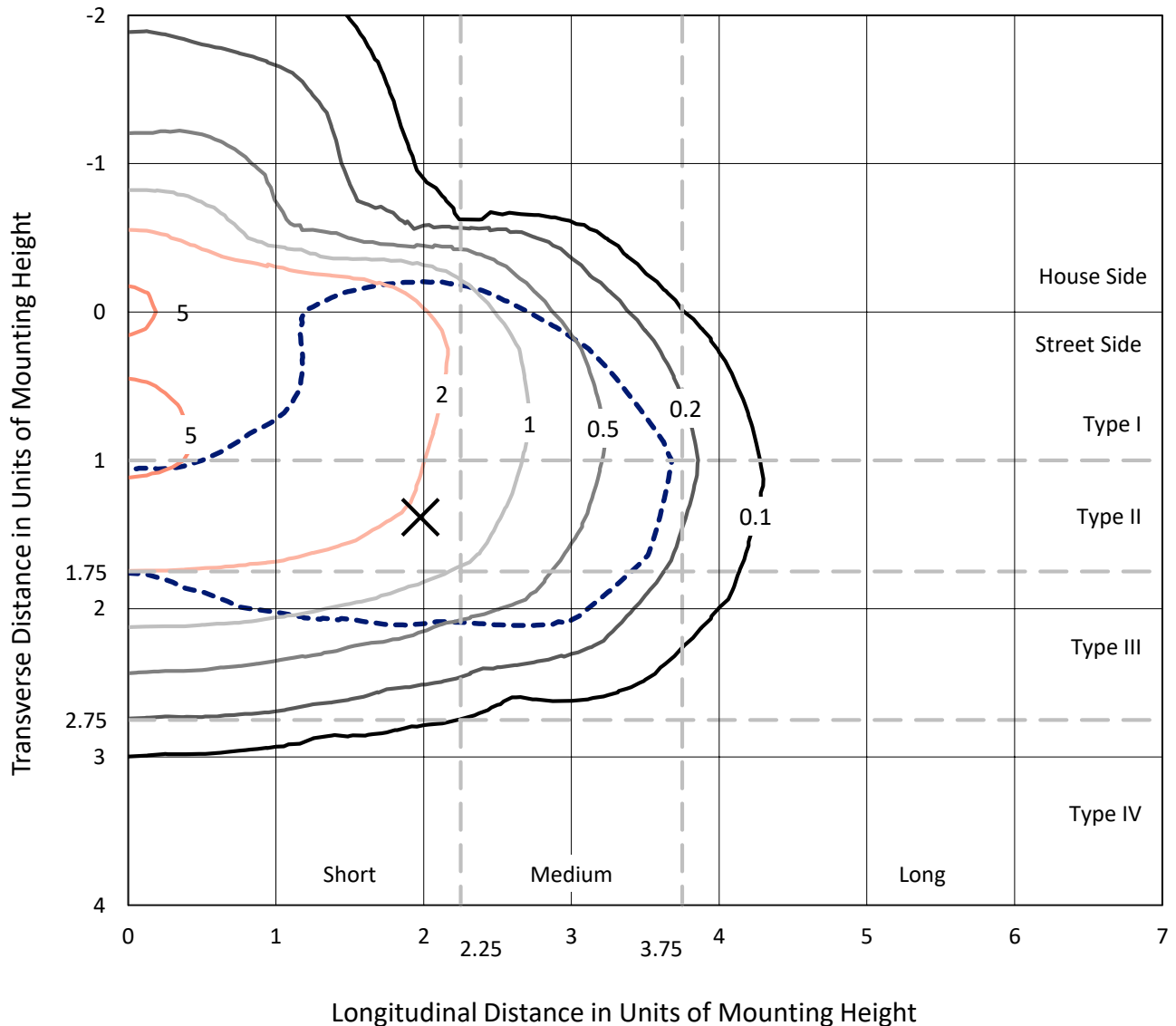


REPORT NUMBER: P191464

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

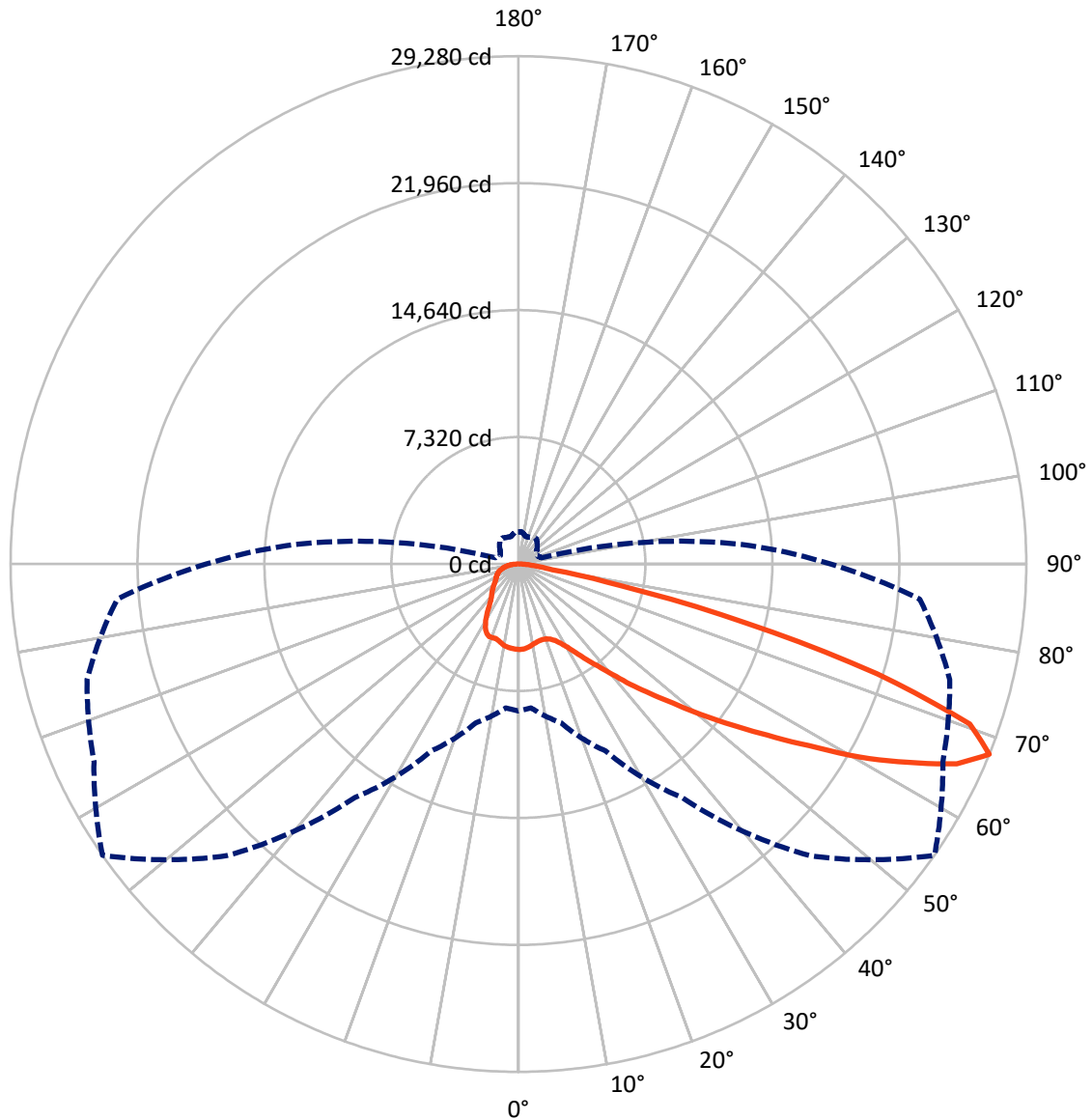


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P191464

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P191464

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8631.9	0.0	8631.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	31326.6	0.0	31326.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	39958.5	0.0	39958.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.9	1.2
10°-20°	1302.5	3.3
20°-30°	2181.9	5.5
30°-40°	3588.0	9.0
40°-50°	6039.7	15.1
50°-60°	9506.1	23.8
60°-70°	11344.5	28.4
70°-80°	4871.6	12.2
80°-90°	664.2	1.7
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°	39958.5	100.0
0°-180°	39958.5	100.0



REPORT NUMBER: P191464

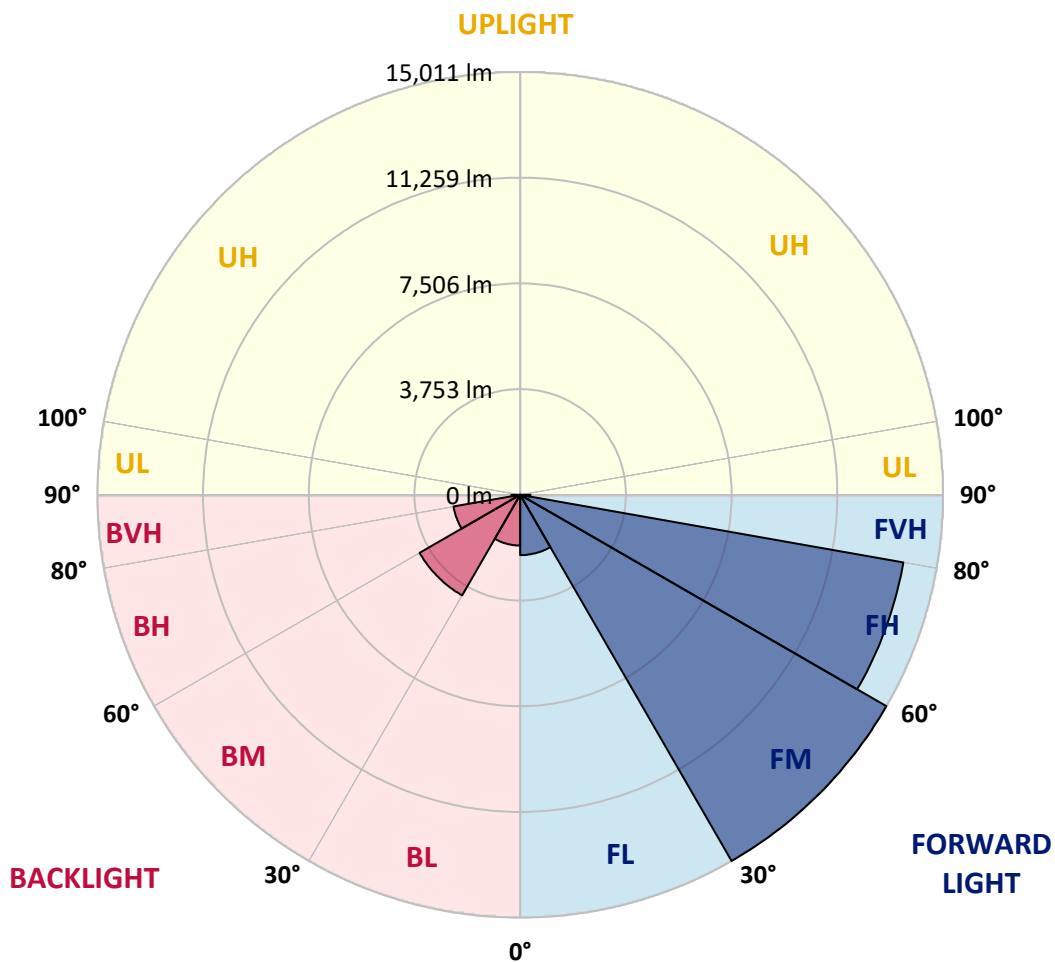
CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2141.9	5.4			
FM	(30°-60°)	15011.4	37.6			
FH	(60°-80°)	13813.8	34.6			G5
FVH	(80°-90°)	359.5	0.9			G3/500
BL	(0°-30°)	1802.5	4.5	B3/2500		
BM	(30°-60°)	4122.5	10.3	B3/5000		
BH	(60°-80°)	2402.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	304.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P191464

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	4884.9	4886.8	4890.6	4906.1	4919.6	4915.8	4917.6	4910.0	4908.0	4896.5	4908.0
5°	4823.1	4828.8	4830.8	4855.9	4871.4	4875.2	4869.5	4859.7	4848.2	4836.6	4842.4
7.5°	4682.3	4697.7	4699.5	4734.3	4759.4	4792.2	4794.2	4796.1	4790.3	4782.6	4794.2
10°	4593.5	4597.2	4595.4	4620.5	4639.8	4676.4	4697.7	4734.3	4749.8	4753.7	4761.3
12.5°	4587.6	4583.7	4578.0	4578.0	4572.2	4587.6	4626.2	4678.4	4715.0	4726.6	4736.3
15°	4649.4	4647.5	4628.1	4599.2	4562.6	4551.0	4583.7	4641.6	4689.9	4715.0	4724.7
17.5°	4788.3	4776.8	4745.9	4680.3	4601.1	4570.2	4574.1	4622.4	4678.4	4711.2	4720.8
20°	5043.1	5043.1	4977.5	4854.0	4713.0	4639.8	4605.0	4634.0	4688.0	4732.4	4745.9
22.5°	5483.1	5487.0	5377.0	5174.4	4937.0	4780.7	4693.8	4688.0	4751.7	4801.8	4817.3
25°	6106.6	6091.2	5936.7	5647.2	5286.3	5027.7	4877.1	4842.4	4896.5	4952.4	4971.7
27.5°	6832.3	6776.2	6592.9	6243.6	5776.5	5398.2	5166.6	5110.7	5162.7	5226.5	5245.8
30°	7550.2	7492.3	7274.2	6892.0	6372.9	5894.2	5562.3	5471.6	5544.9	5635.6	5647.2
32.5°	8268.2	8268.2	8024.9	7579.1	7013.7	6486.7	6089.2	5981.1	6102.7	6212.7	6237.7
35°	9127.1	9130.9	8895.4	8358.8	7750.9	7193.2	6755.1	6675.9	6859.3	6936.4	6996.3
37.5°	10182.8	10203.9	9900.9	9252.5	8586.6	7999.9	7478.8	7370.7	7554.1	7764.4	7957.4
40°	11323.3	11350.4	11016.5	10217.4	9551.6	8937.9	8374.3	8179.4	8484.4	8885.8	9134.7
42.5°	12411.9	12550.9	12228.6	11406.4	10690.3	10055.4	9484.1	9200.3	9582.5	10188.5	10404.7
45°	13984.9	14085.2	13523.6	12778.6	12105.0	11394.8	10638.2	10339.1	10873.7	11638.0	11682.4
47.5°	15032.9	14957.6	14672.0	14208.8	13782.2	13118.3	11979.6	11651.5	12361.7	13261.1	13012.1
50°	15590.6	15613.8	15575.2	15602.3	15617.7	15200.7	13624.0	13174.3	14021.5	15108.2	14534.9
52.5°	16111.8	15957.3	16084.7	16717.8	17482.0	17327.7	15413.1	14944.1	15801.0	17157.9	16144.5
55°	16100.1	15864.7	16279.6	17397.1	19055.0	19232.6	17422.2	16881.9	17682.7	19356.1	17850.7
57.5°	15530.8	15542.4	16181.2	17644.2	20151.2	21023.6	19753.7	18943.1	19678.4	21583.3	19408.2
60°	14747.3	14853.3	15774.0	17603.7	21029.4	22492.3	22614.0	21164.5	21633.5	23607.9	20697.5
62.5°	13483.1	13595.0	14864.9	17182.9	20896.2	23907.1	25200.2	23685.1	23677.4	24835.4	21075.8
65°	11489.4	11456.5	12790.2	15609.9	19778.8	24953.1	27769.0	25864.1	25217.6	24854.7	20315.3
67.5°	8472.8	8326.1	9470.6	11888.8	16439.8	23781.6	29280.2	26998.9	25742.5	23220.0	17991.6
70°	4396.5	4249.8	5176.3	6942.3	10812.0	18560.9	27606.9	26412.2	24582.5	19464.2	14094.8
72.5°	1879.9	1854.7	2231.1	3045.5	5230.3	10705.8	21647.0	22861.0	21093.1	14502.1	9690.6
75°	1264.2	1256.4	1397.4	1659.8	2352.7	4344.5	13546.7	16227.6	15432.3	8991.9	5450.4
77.5°	992.1	982.3	1065.4	1192.8	1524.7	1713.9	6012.0	8712.1	8063.6	3914.0	2385.5
80°	775.9	768.1	820.3	889.8	1096.3	1080.8	1978.3	3466.3	2682.7	1499.6	1159.9
82.5°	611.8	611.8	654.3	656.2	777.7	737.2	1032.6	1526.7	1339.5	874.3	710.2
85°	559.7	559.7	604.1	490.2	507.6	465.1	640.8	905.2	849.3	359.0	308.8
87.5°	281.8	274.0	507.6	434.2	276.0	247.0	312.6	438.1	471.0	198.8	154.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191464

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3	4927.3
2.5°	4904.1	4902.2	4906.1	4908.0	4923.5	4944.7	4954.4	4967.9	4975.5	4971.7
5°	4846.2	4850.1	4865.6	4877.1	4904.1	4938.9	4958.2	4973.7	4987.2	4981.4
7.5°	4798.0	4807.7	4830.8	4840.5	4855.9	4865.6	4863.6	4869.5	4881.0	4867.5
10°	4770.9	4782.6	4799.9	4786.4	4749.8	4697.7	4649.4	4624.4	4632.0	4622.4
12.5°	4743.9	4759.4	4745.9	4682.3	4580.0	4512.3	4475.7	4479.6	4496.9	4500.8
15°	4728.5	4734.3	4676.4	4556.7	4452.5	4442.9	4462.2	4458.3	4460.3	4460.3
17.5°	4728.5	4713.0	4605.0	4485.3	4440.9	4423.5	4363.8	4288.5	4255.7	4244.1
20°	4753.7	4713.0	4581.9	4502.7	4406.3	4257.6	4099.4	3960.4	3898.7	3881.3
22.5°	4828.8	4759.4	4647.5	4510.4	4236.3	3987.4	3736.5	3570.5	3458.6	3439.3
25°	4981.4	4904.1	4776.8	4408.1	3966.2	3611.0	3325.4	3140.2	3028.1	3012.8
27.5°	5247.7	5197.5	4846.2	4182.3	3607.2	3227.0	2962.6	2819.8	2736.8	2731.0
30°	5649.1	5624.1	4811.6	3848.4	3165.2	2854.4	2727.1	2644.1	2582.3	2580.4
32.5°	6289.9	6087.3	4697.7	3441.2	2761.9	2590.1	2537.9	2487.8	2439.5	2439.5
35°	7114.0	6461.7	4481.4	3005.0	2516.8	2443.4	2377.7	2298.7	2234.9	2231.1
37.5°	8082.8	6693.3	4093.5	2653.7	2401.0	2345.0	2248.4	2130.7	2018.8	1999.5
40°	9061.4	6762.7	3547.4	2437.6	2327.6	2246.5	2128.8	1989.8	1881.7	1876.0
42.5°	9958.8	6629.5	2968.4	2289.0	2254.3	2146.2	2022.7	1899.1	1814.2	1812.3
45°	10711.5	6284.1	2482.0	2148.1	2177.0	2055.4	1945.4	1845.1	1779.4	1765.9
47.5°	11419.9	5795.8	2140.4	1999.5	2099.8	2005.3	1912.6	1818.1	1754.4	1744.7
50°	12242.1	5268.9	1901.1	1854.7	2032.3	1987.9	1939.6	1841.2	1735.1	1723.5
52.5°	13237.9	4813.5	1713.9	1727.4	1980.2	2011.1	2009.2	1906.9	1721.5	1706.2
55°	14349.6	4307.7	1573.0	1623.1	1959.0	2053.6	2026.5	1968.6	1733.2	1710.0
57.5°	15444.0	3717.2	1474.5	1544.0	1928.1	2049.7	1943.5	1860.5	1760.2	1727.4
60°	16264.2	2924.0	1399.3	1474.5	1860.5	1986.0	1852.8	1742.8	1754.4	1729.3
62.5°	16318.2	2260.0	1308.6	1414.7	1758.2	1922.3	1793.0	1690.7	1779.4	1756.3
65°	15359.0	1708.0	1221.7	1343.3	1648.3	1881.7	1735.1	1661.8	1831.6	1806.5
67.5°	12931.1	1374.1	1148.4	1270.0	1538.2	1796.8	1683.0	1634.7	1877.9	1833.5
70°	9335.4	1171.5	1077.0	1181.2	1439.8	1700.3	1636.6	1586.5	1752.4	1683.0
72.5°	5747.6	1015.2	995.8	1063.5	1364.5	1600.0	1567.2	1495.8	1578.7	1522.8
75°	2869.9	880.0	905.2	947.7	1258.3	1486.1	1451.4	1380.0	1391.5	1380.0
77.5°	1374.1	752.7	799.0	831.9	1121.4	1356.8	1320.1	1246.8	1233.3	1235.2
80°	870.4	629.2	673.6	696.7	1001.7	1206.3	1169.5	1096.3	1250.7	1159.9
82.5°	544.3	511.5	523.0	565.5	872.4	1050.0	1001.7	936.1	1127.1	891.7
85°	301.1	357.0	372.5	409.2	671.7	878.2	829.9	747.0	669.7	658.2
87.5°	179.5	212.3	218.1	245.1	451.6	634.9	561.6	532.7	442.0	440.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)