

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: P191446

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191446
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-08-LED-E1-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39435.8 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

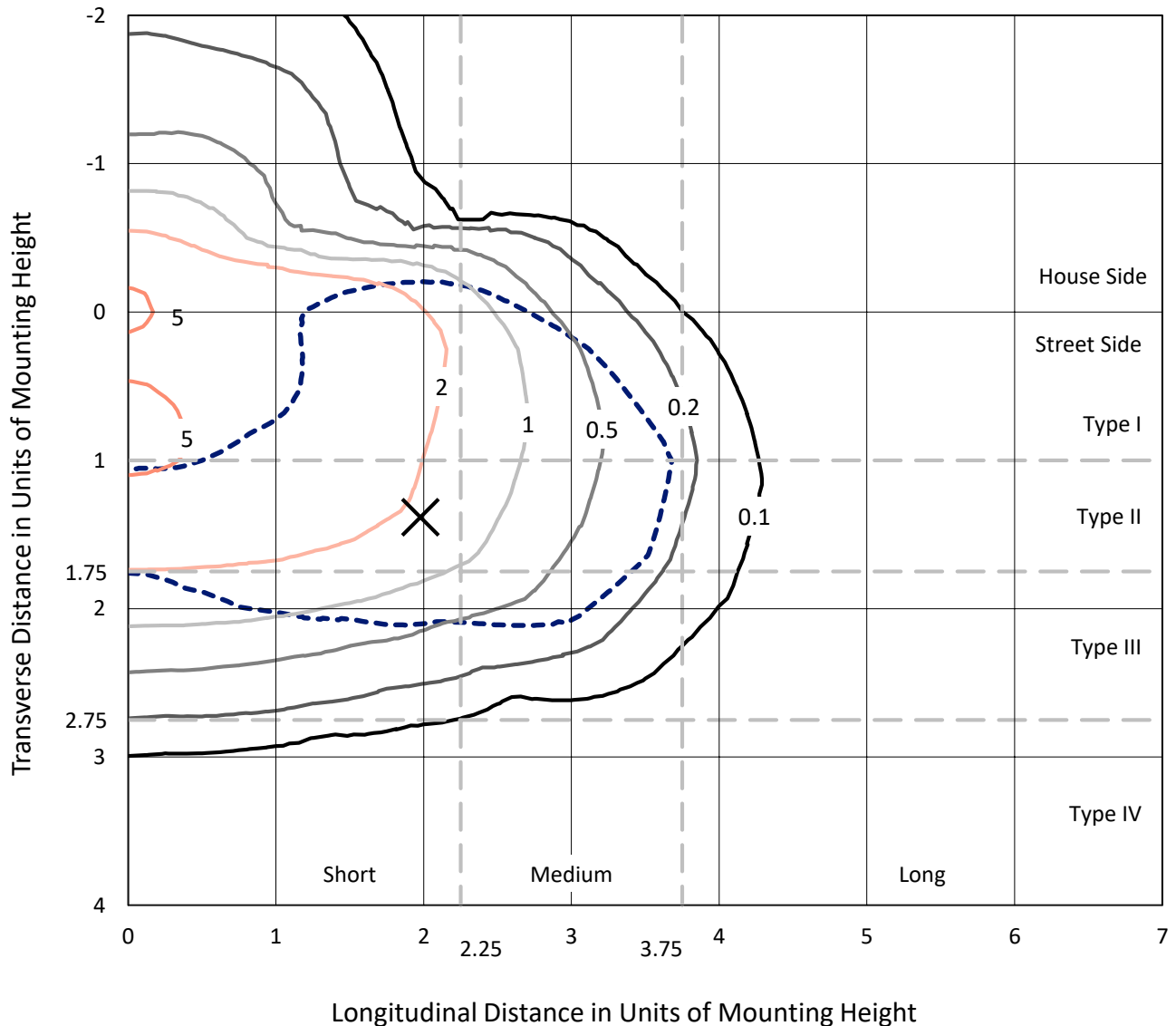
Input Watts (W): 334
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

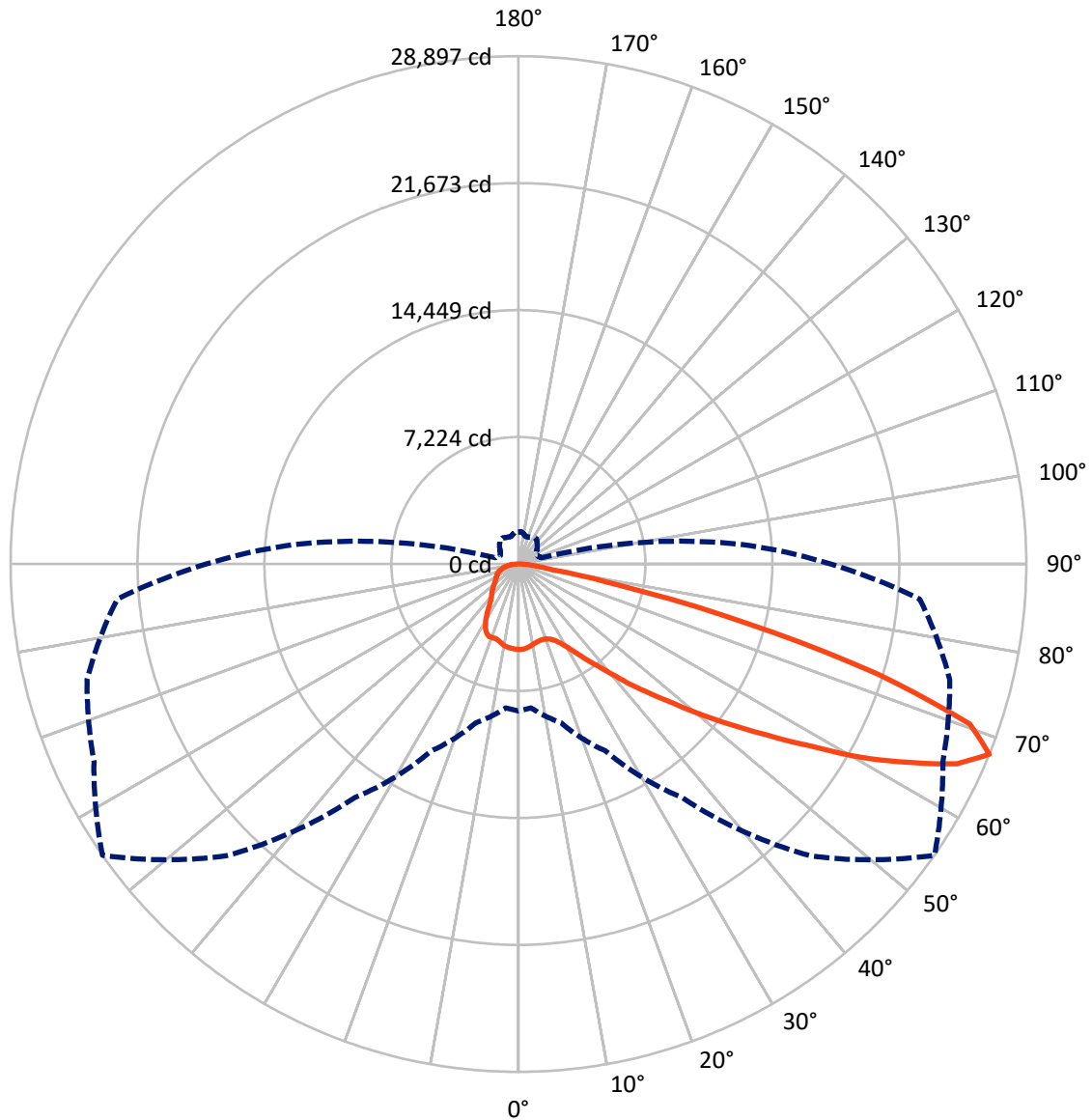
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8519.0	0.0	8519.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30916.8	0.0	30916.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	39435.8	0.0	39435.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.9	1.2
10°-20°	1285.5	3.3
20°-30°	2153.4	5.5
30°-40°	3541.1	9.0
40°-50°	5960.7	15.1
50°-60°	9381.7	23.8
60°-70°	11196.1	28.4
70°-80°	4807.8	12.2
80°-90°	655.5	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°	39435.8	100.0
0°-180°	39435.8	100.0



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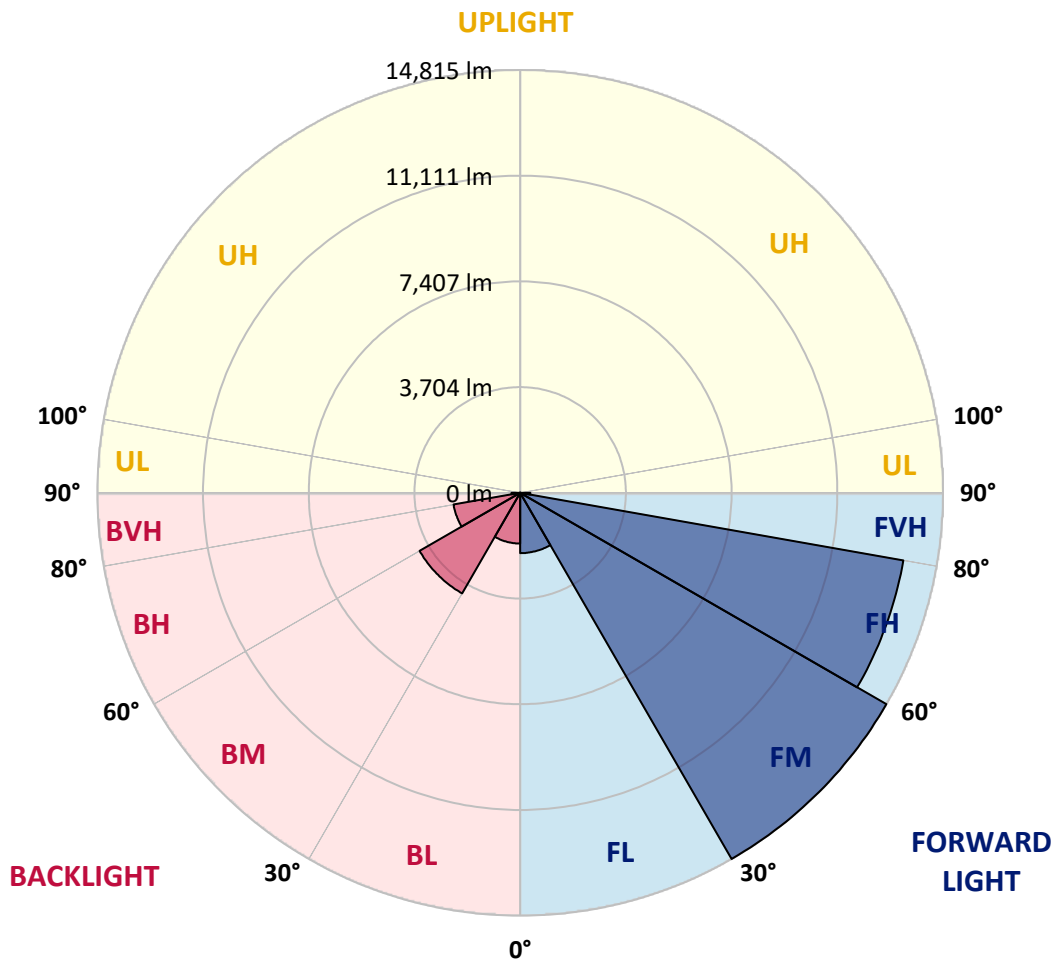
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2113.9	5.4			
FM	(30°-60°)	14815.0	37.6			
FH	(60°-80°)	13633.1	34.6			G5
FVH	(80°-90°)	354.8	0.9			G3/500
BL	(0°-30°)	1778.9	4.5	B3/2500		
BM	(30°-60°)	4068.6	10.3	B3/5000		
BH	(60°-80°)	2370.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	300.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9
2.5°	4821.0	4822.9	4826.7	4841.9	4855.2	4851.4	4853.3	4845.7	4843.8	4832.4	4843.8
5°	4760.0	4765.7	4767.7	4792.4	4807.7	4811.4	4805.7	4796.2	4784.8	4773.3	4779.0
7.5°	4621.0	4636.2	4638.1	4672.4	4697.2	4729.5	4731.5	4733.3	4727.7	4720.0	4731.5
10°	4533.3	4537.2	4535.3	4560.0	4579.0	4615.2	4636.2	4672.4	4687.7	4691.5	4699.0
12.5°	4527.6	4523.8	4518.1	4518.1	4512.3	4527.6	4565.7	4617.2	4653.3	4664.8	4674.3
15°	4588.5	4586.7	4567.6	4539.0	4502.8	4491.5	4523.8	4581.0	4628.5	4653.3	4662.8
17.5°	4725.7	4714.3	4683.8	4619.0	4541.0	4510.5	4514.3	4562.0	4617.2	4649.5	4659.0
20°	4977.2	4977.2	4912.4	4790.5	4651.5	4579.0	4544.8	4573.3	4626.7	4670.5	4683.8
22.5°	5411.4	5415.2	5306.7	5106.7	4872.4	4718.1	4632.4	4626.7	4689.5	4739.0	4754.3
25°	6026.7	6011.5	5859.1	5573.3	5217.2	4961.9	4813.3	4779.0	4832.4	4887.7	4906.7
27.5°	6742.9	6687.6	6506.7	6161.9	5701.0	5327.6	5099.1	5043.9	5095.2	5158.1	5177.2
30°	7451.5	7394.3	7179.1	6801.9	6289.5	5817.1	5489.6	5400.1	5472.4	5561.9	5573.3
32.5°	8160.0	8160.0	7920.0	7480.0	6921.9	6401.9	6009.5	5902.8	6022.8	6131.5	6156.2
35°	9007.6	9011.5	8779.1	8249.5	7649.5	7099.1	6666.7	6588.6	6769.6	6845.7	6904.8
37.5°	10049.6	10070.4	9771.4	9131.5	8474.3	7895.2	7381.0	7274.3	7455.3	7662.8	7853.3
40°	11175.2	11201.9	10872.4	10083.8	9426.7	8821.0	8264.7	8072.4	8373.4	8769.6	9015.3
42.5°	12249.5	12386.7	12068.6	11257.2	10550.5	9923.9	9360.0	9080.0	9457.2	10055.2	10268.6
45°	13802.0	13901.0	13346.6	12611.4	11946.6	11245.7	10499.1	10203.8	10731.5	11485.7	11529.6
47.5°	14836.2	14761.9	14480.0	14022.9	13601.9	12946.7	11822.9	11499.1	12200.0	13087.6	12841.9
50°	15386.7	15409.5	15371.5	15398.1	15413.3	15001.9	13445.8	13001.9	13838.1	14910.5	14344.7
52.5°	15901.0	15748.6	15874.3	16499.1	17253.4	17101.0	15211.5	14748.6	15594.3	16933.3	15933.4
55°	15889.5	15657.2	16066.7	17169.5	18805.7	18981.0	17194.3	16661.0	17451.4	19102.9	17617.2
57.5°	15327.6	15339.0	15969.5	17413.4	19887.6	20748.6	19495.3	18695.2	19420.9	21301.0	19154.3
60°	14554.3	14659.1	15567.7	17373.4	20754.3	22198.1	22318.1	20887.6	21350.5	23299.0	20426.7
62.5°	13306.6	13417.1	14670.4	16958.1	20622.9	23594.4	24870.5	23375.2	23367.7	24510.5	20800.1
65°	11339.1	11306.7	12622.9	15405.7	19520.0	24626.7	27405.8	25525.7	24887.7	24529.5	20049.5
67.5°	8361.9	8217.2	9346.7	11733.3	16224.8	23470.5	28897.1	26645.7	25405.7	22916.2	17756.2
70°	4339.1	4194.3	5108.6	6851.4	10670.5	18318.1	27245.8	26066.7	24261.0	19209.6	13910.5
72.5°	1855.2	1830.5	2201.9	3005.7	5161.9	10565.8	21363.8	22561.9	20817.2	14312.4	9563.8
75°	1247.6	1240.0	1379.0	1638.1	2321.9	4287.6	13369.6	16015.2	15230.5	8874.3	5379.1
77.5°	979.1	969.6	1051.4	1177.1	1504.8	1691.4	5933.3	8598.1	7958.1	3862.9	2354.3
80°	765.7	758.1	809.6	878.1	1081.9	1066.6	1952.4	3421.0	2647.6	1480.0	1144.8
82.5°	603.8	603.8	645.7	647.6	767.6	727.6	1019.1	1506.7	1321.9	862.9	700.9
85°	552.4	552.4	596.2	483.9	500.9	459.0	632.4	893.3	838.1	354.2	304.7
87.5°	278.1	270.5	500.9	428.6	272.4	243.8	308.5	432.4	464.7	196.2	152.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9	4862.9
2.5°	4840.0	4838.1	4841.9	4843.8	4859.0	4880.0	4889.5	4902.9	4910.5	4906.7
5°	4782.9	4786.7	4801.9	4813.3	4840.0	4874.3	4893.4	4908.5	4921.9	4916.2
7.5°	4735.2	4744.8	4767.7	4777.2	4792.4	4801.9	4800.0	4805.7	4817.2	4803.8
10°	4708.5	4720.0	4737.2	4723.8	4687.7	4636.2	4588.5	4563.8	4571.5	4562.0
12.5°	4681.9	4697.2	4683.8	4621.0	4520.0	4453.3	4417.1	4421.0	4438.1	4442.0
15°	4666.7	4672.4	4615.2	4497.1	4394.3	4384.8	4403.8	4400.0	4401.9	4401.9
17.5°	4666.7	4651.5	4544.8	4426.7	4382.8	4365.7	4306.6	4232.4	4200.0	4188.6
20°	4691.5	4651.5	4522.0	4443.8	4348.6	4201.9	4045.7	3908.6	3847.6	3830.4
22.5°	4765.7	4697.2	4586.7	4451.5	4181.0	3935.3	3687.6	3523.9	3413.4	3394.3
25°	4916.2	4840.0	4714.3	4350.5	3914.3	3563.9	3281.9	3099.0	2988.6	2973.3
27.5°	5179.1	5129.5	4782.9	4127.6	3560.0	3184.8	2923.8	2782.8	2701.0	2695.3
30°	5575.3	5550.5	4748.5	3798.1	3123.8	2817.1	2691.4	2609.5	2548.6	2546.6
32.5°	6207.7	6007.6	4636.2	3396.2	2725.8	2556.1	2504.8	2455.3	2407.6	2407.6
35°	7020.9	6377.2	4422.8	2965.7	2483.8	2411.4	2346.6	2268.6	2205.7	2201.9
37.5°	7977.2	6605.7	4040.0	2619.1	2369.6	2314.3	2219.1	2102.9	1992.4	1973.4
40°	8942.8	6674.2	3500.9	2405.7	2297.1	2217.1	2100.9	1963.9	1857.2	1851.4
42.5°	9828.6	6542.9	2929.5	2259.1	2224.7	2118.1	1996.2	1874.3	1790.5	1788.5
45°	10571.5	6201.9	2449.6	2120.0	2148.6	2028.6	1920.0	1821.0	1756.2	1742.9
47.5°	11270.5	5720.0	2112.4	1973.4	2072.4	1979.0	1887.7	1794.3	1731.4	1721.9
50°	12081.9	5200.0	1876.2	1830.5	2005.7	1961.9	1914.2	1817.2	1712.4	1701.0
52.5°	13064.8	4750.5	1691.4	1704.7	1954.2	1984.7	1982.9	1881.9	1699.0	1683.8
55°	14161.9	4251.4	1552.4	1601.9	1933.4	2026.7	2000.0	1942.9	1710.5	1687.7
57.5°	15242.0	3668.6	1455.2	1523.8	1902.9	2022.9	1918.1	1836.2	1737.2	1704.7
60°	16051.4	2885.7	1381.0	1455.2	1836.2	1960.0	1828.5	1720.0	1731.4	1706.7
62.5°	16104.8	2230.4	1291.5	1396.2	1735.2	1897.2	1769.5	1668.5	1756.2	1733.3
65°	15158.1	1685.7	1205.8	1325.7	1626.7	1857.2	1712.4	1640.0	1807.7	1782.9
67.5°	12761.9	1356.2	1133.3	1253.3	1518.1	1773.3	1661.0	1613.3	1853.4	1809.5
70°	9213.3	1156.2	1062.8	1165.8	1421.0	1678.0	1615.2	1565.7	1729.5	1661.0
72.5°	5672.4	1001.9	982.9	1049.5	1346.7	1579.0	1546.7	1476.2	1558.1	1502.8
75°	2832.3	868.6	893.3	935.3	1241.9	1466.7	1432.3	1362.0	1373.3	1362.0
77.5°	1356.2	742.9	788.6	820.9	1106.6	1339.0	1302.8	1230.5	1217.1	1219.1
80°	859.1	620.9	664.7	687.6	988.6	1190.5	1154.3	1081.9	1234.3	1144.8
82.5°	537.2	504.7	516.2	558.1	860.9	1036.1	988.6	923.8	1112.4	880.0
85°	297.2	352.4	367.6	403.9	662.9	866.6	819.1	737.1	660.9	649.6
87.5°	177.2	209.5	215.2	241.9	445.7	626.7	554.3	525.7	436.2	434.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)