

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: P191438

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191438
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-10-LED-E1-T3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39718.1 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

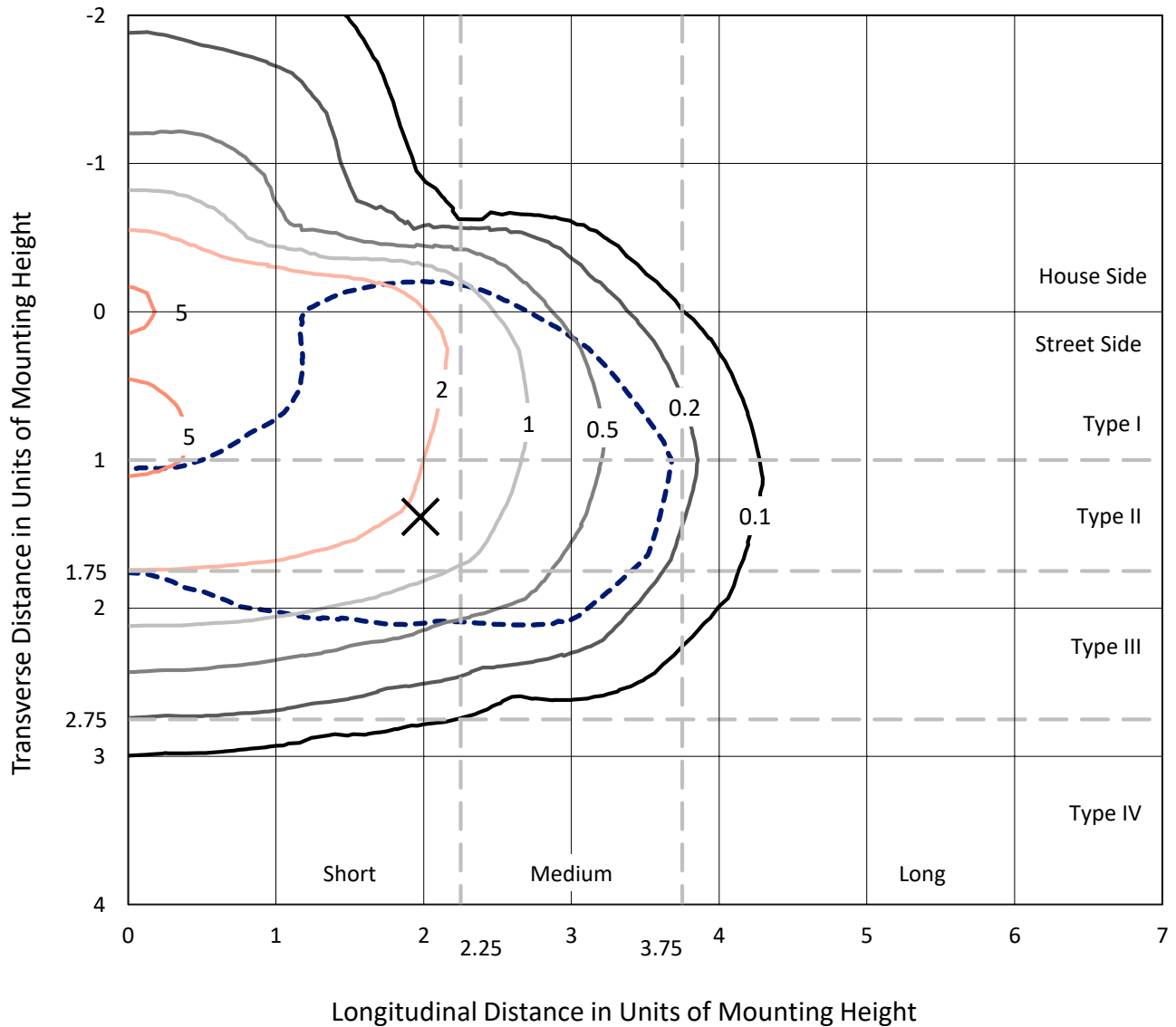
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

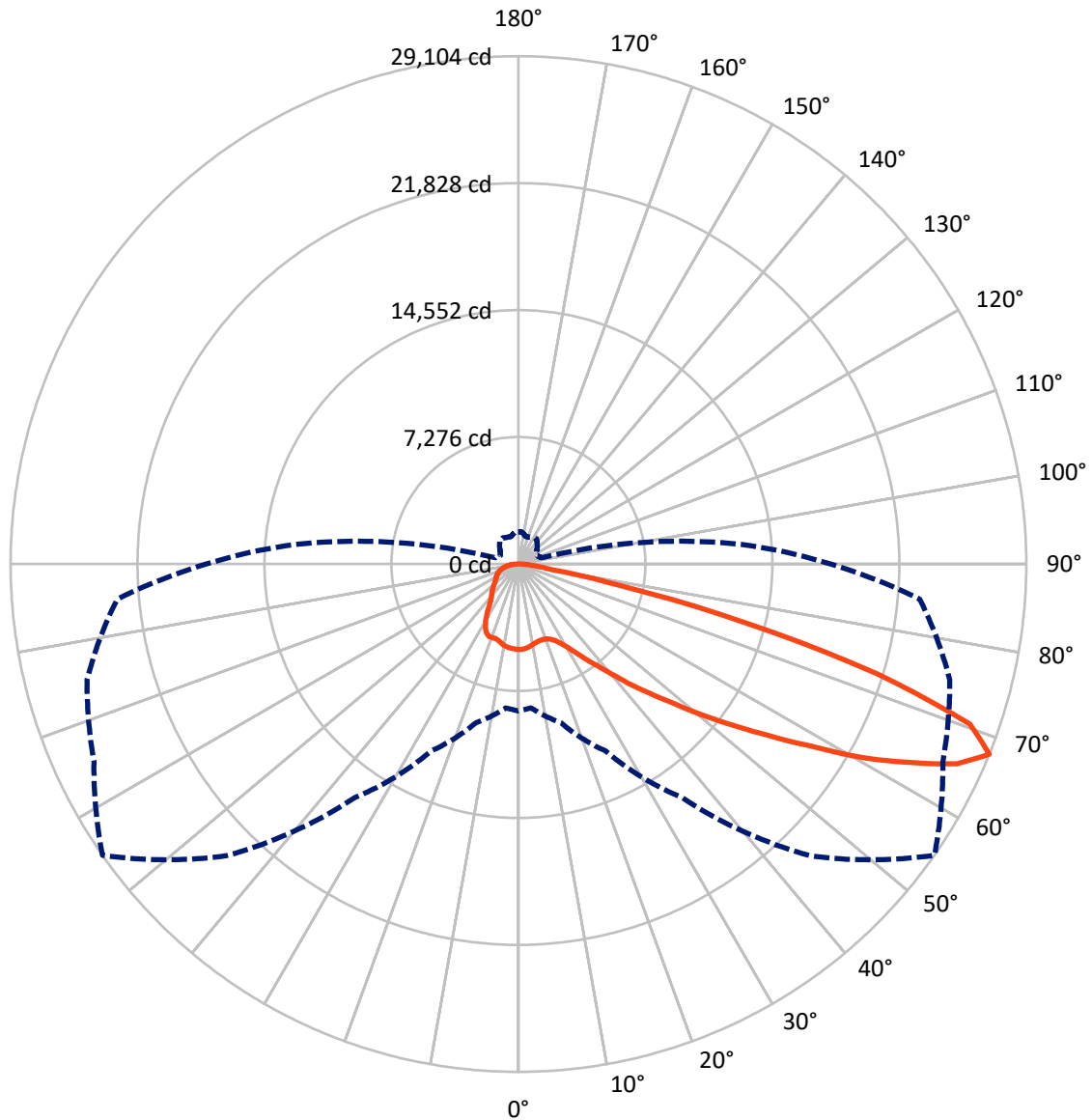
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	8579.9	0.0	8579.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	31138.1	0.0	31138.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	39718.1	0.0	39718.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.1	1.2
10°-20°	1294.7	3.3
20°-30°	2168.8	5.5
30°-40°	3566.4	9.0
40°-50°	6003.4	15.1
50°-60°	9448.9	23.8
60°-70°	11276.3	28.4
70°-80°	4842.2	12.2
80°-90°	660.2	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°	39718.1	100.0
0°-180°	39718.1	100.0



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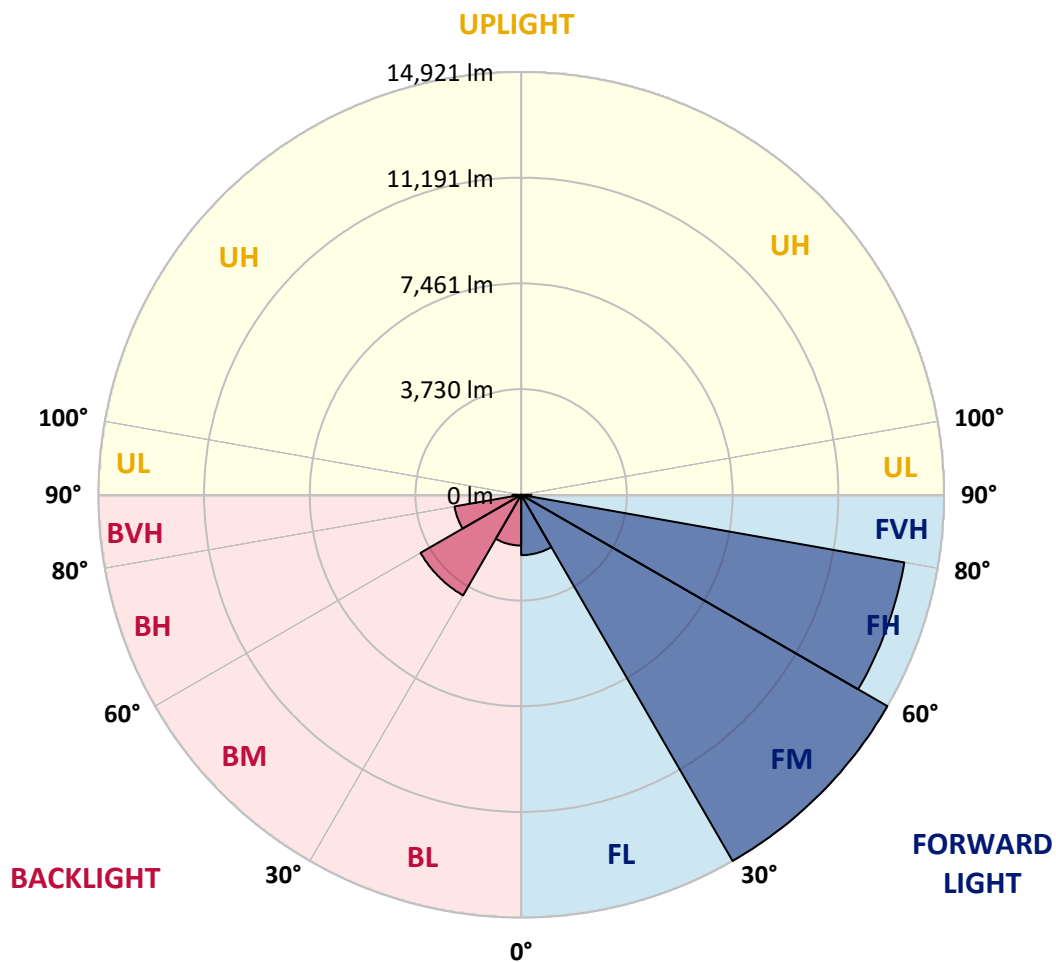
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2129.0	5.4			
FM	(30°-60°)	14921.1	37.6			
FH	(60°-80°)	13730.7	34.6			G5
FVH	(80°-90°)	357.4	0.9			G3/500
BL	(0°-30°)	1791.7	4.5	B3/2500		
BM	(30°-60°)	4097.7	10.3	B3/5000		
BH	(60°-80°)	2387.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	302.8	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°	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7
2.5°	4855.4	4857.4	4861.3	4876.6	4890.0	4886.1	4888.1	4880.4	4878.5	4867.0	4878.5
5°	4794.1	4799.8	4801.7	4826.7	4842.0	4845.9	4840.1	4830.6	4819.0	4807.6	4813.3
7.5°	4654.0	4669.4	4671.3	4705.9	4730.7	4763.4	4765.3	4767.3	4761.4	4753.8	4765.3
10°	4565.8	4569.6	4567.7	4592.6	4611.9	4648.3	4669.4	4705.9	4721.2	4725.0	4732.7
12.5°	4560.0	4556.2	4550.5	4550.5	4544.7	4560.0	4598.4	4650.2	4686.6	4698.2	4707.7
15°	4621.4	4619.5	4600.3	4571.6	4535.2	4523.6	4556.2	4613.7	4661.7	4686.6	4696.3
17.5°	4759.6	4748.0	4717.3	4652.1	4573.5	4542.8	4546.6	4594.6	4650.2	4682.9	4692.4
20°	5012.8	5012.8	4947.6	4824.7	4684.7	4611.9	4577.3	4606.0	4659.7	4703.9	4717.3
22.5°	5450.2	5454.0	5344.7	5143.2	4907.3	4751.9	4665.6	4659.7	4723.1	4773.0	4788.3
25°	6069.8	6054.4	5901.0	5613.2	5254.5	4997.4	4847.8	4813.3	4867.0	4922.6	4941.8
27.5°	6791.2	6735.5	6553.2	6206.0	5741.8	5365.8	5135.5	5080.0	5131.7	5195.1	5214.2
30°	7504.8	7447.2	7230.4	6850.6	6334.5	5858.7	5528.8	5438.6	5511.6	5601.8	5613.2
32.5°	8218.4	8218.4	7976.7	7533.5	6971.5	6447.8	6052.6	5945.1	6066.0	6175.3	6200.3
35°	9072.1	9075.9	8841.9	8308.6	7704.3	7149.9	6714.4	6635.8	6818.0	6894.7	6954.2
37.5°	10121.5	10142.6	9841.4	9196.8	8535.0	7951.8	7433.8	7326.4	7508.7	7717.8	7909.6
40°	11255.2	11282.1	10950.3	10156.1	9494.2	8884.1	8324.0	8130.2	8433.3	8832.4	9079.8
42.5°	12337.2	12475.4	12155.0	11337.8	10626.0	9994.8	9427.0	9145.0	9524.9	10127.2	10342.1
45°	13900.8	14000.5	13442.2	12701.8	12032.3	11326.2	10574.2	10276.9	10808.3	11567.9	11612.1
47.5°	14942.4	14867.6	14583.7	14123.3	13699.3	13039.3	11907.6	11581.3	12287.4	13181.3	12933.9
50°	15496.9	15519.9	15481.5	15508.3	15523.7	15109.3	13542.0	13095.0	13937.2	15017.2	14447.4
52.5°	16014.8	15861.4	15987.9	16617.2	17376.9	17223.4	15320.3	14854.2	15706.0	17054.5	16047.4
55°	16003.3	15769.3	16181.8	17292.5	18940.3	19116.9	17317.4	16780.3	17576.3	19239.7	17743.3
57.5°	15437.4	15448.9	16083.9	17538.0	20030.0	20897.1	19634.8	18829.1	19560.0	21453.4	19291.4
60°	14658.5	14764.0	15679.1	17497.8	20902.9	22357.0	22477.9	21037.2	21503.3	23465.9	20573.0
62.5°	13402.0	13513.2	14775.5	17079.5	20770.5	23763.2	25048.6	23542.6	23534.9	24686.0	20948.9
65°	11420.2	11387.6	12713.2	15516.0	19659.8	24803.0	27602.0	25708.5	25065.8	24705.2	20193.0
67.5°	8421.7	8276.0	9413.6	11817.3	16340.9	23638.6	29104.1	26836.5	25587.6	23080.3	17883.3
70°	4370.1	4224.3	5145.1	6900.5	10746.9	18449.2	27440.8	26253.3	24434.7	19347.1	14010.1
72.5°	1868.5	1843.6	2217.7	3027.2	5198.8	10641.3	21516.7	22723.4	20966.2	14414.9	9632.3
75°	1256.6	1248.9	1389.0	1649.8	2338.6	4318.3	13465.2	16129.9	15339.6	8937.8	5417.5
77.5°	986.0	976.5	1059.0	1185.6	1515.5	1703.5	5975.8	8659.7	8015.1	3890.5	2371.1
80°	771.2	763.5	815.3	884.3	1089.6	1074.3	1966.3	3445.4	2666.5	1490.6	1153.0
82.5°	608.1	608.1	650.3	652.2	773.1	732.8	1026.3	1517.4	1331.4	869.0	705.9
85°	556.4	556.4	600.5	487.2	504.5	462.4	636.9	899.7	844.1	356.8	307.0
87.5°	280.1	272.4	504.5	431.7	274.4	245.5	310.8	435.5	468.1	197.6	153.4
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°	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7	4897.7
2.5°	4874.7	4872.7	4876.6	4878.5	4893.8	4915.0	4924.5	4938.0	4945.7	4941.8
5°	4817.1	4821.0	4836.3	4847.8	4874.7	4909.1	4928.4	4943.7	4957.1	4951.4
7.5°	4769.1	4778.7	4801.7	4811.3	4826.7	4836.3	4834.4	4840.1	4851.7	4838.3
10°	4742.3	4753.8	4771.0	4757.6	4721.2	4669.4	4621.4	4596.5	4604.2	4594.6
12.5°	4715.4	4730.7	4717.3	4654.0	4552.3	4485.2	4448.8	4452.6	4469.9	4473.7
15°	4700.0	4705.9	4648.3	4529.3	4425.8	4416.2	4435.3	4431.5	4433.5	4433.5
17.5°	4700.0	4684.7	4577.3	4458.3	4414.2	4396.9	4337.5	4262.6	4230.1	4218.5
20°	4725.0	4684.7	4554.3	4475.6	4379.7	4231.9	4074.7	3936.5	3875.1	3857.9
22.5°	4799.8	4730.7	4619.5	4483.3	4210.9	3963.4	3714.0	3549.0	3437.7	3418.6
25°	4951.4	4874.7	4748.0	4381.6	3942.4	3589.3	3305.4	3121.2	3009.9	2994.6
27.5°	5216.1	5166.2	4817.1	4157.2	3585.4	3207.6	2944.8	2802.8	2720.3	2714.5
30°	5615.2	5590.2	4782.6	3825.3	3146.2	2837.4	2710.7	2628.2	2566.8	2564.9
32.5°	6252.1	6050.7	4669.4	3420.5	2745.2	2574.5	2522.7	2472.8	2424.9	2424.9
35°	7071.2	6422.8	4454.5	2986.9	2501.6	2428.7	2363.4	2284.9	2221.5	2217.7
37.5°	8034.3	6653.0	4068.9	2637.8	2386.4	2330.9	2234.9	2117.9	2006.6	1987.5
40°	9006.9	6722.1	3526.0	2423.0	2313.6	2233.0	2116.0	1977.9	1870.5	1864.6
42.5°	9899.0	6589.7	2950.5	2275.2	2240.7	2133.3	2010.5	1887.8	1803.3	1801.4
45°	10647.1	6246.3	2467.1	2135.2	2164.0	2043.1	1933.8	1833.9	1768.8	1755.4
47.5°	11351.2	5761.0	2127.5	1987.5	2087.2	1993.2	1901.2	1807.1	1743.8	1734.2
50°	12168.4	5237.2	1889.6	1843.6	2020.1	1975.9	1928.0	1830.2	1724.6	1713.1
52.5°	13158.3	4784.4	1703.5	1716.9	1968.3	1998.9	1997.0	1895.4	1711.2	1695.8
55°	14263.3	4281.9	1563.5	1613.4	1947.2	2041.2	2014.3	1956.8	1722.8	1699.7
57.5°	15351.0	3694.8	1465.7	1534.7	1916.5	2037.3	1931.8	1849.3	1749.6	1716.9
60°	16166.4	2906.4	1390.8	1465.7	1849.3	1974.0	1841.6	1732.3	1743.8	1718.9
62.5°	16220.1	2246.4	1300.7	1406.1	1747.7	1910.8	1782.2	1680.5	1768.8	1745.8
65°	15266.6	1697.8	1214.3	1335.3	1638.4	1870.5	1724.6	1651.8	1820.5	1795.6
67.5°	12853.3	1365.9	1141.4	1262.3	1529.0	1786.1	1672.8	1624.9	1866.6	1822.5
70°	9279.3	1164.4	1070.5	1174.0	1431.1	1690.1	1626.8	1576.9	1741.9	1672.8
72.5°	5713.0	1009.0	989.9	1057.0	1356.3	1590.4	1557.7	1486.8	1569.2	1513.7
75°	2852.7	874.8	899.7	941.9	1250.8	1477.1	1442.7	1371.7	1383.1	1371.7
77.5°	1365.9	748.2	794.2	826.9	1114.6	1348.7	1312.1	1239.3	1225.9	1227.7
80°	865.2	625.4	669.5	692.5	995.6	1199.0	1162.6	1089.6	1243.1	1153.0
82.5°	541.0	508.4	519.9	562.1	867.2	1043.6	995.6	930.4	1120.3	886.3
85°	299.3	354.9	370.2	406.7	667.6	872.9	824.9	742.5	665.6	654.2
87.5°	178.4	211.0	216.8	243.7	448.9	631.2	558.2	529.5	439.4	437.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)