

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: P193204

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193204
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-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37779.7 lumens
Efficiency: N/A
Efficacy: 98.9 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

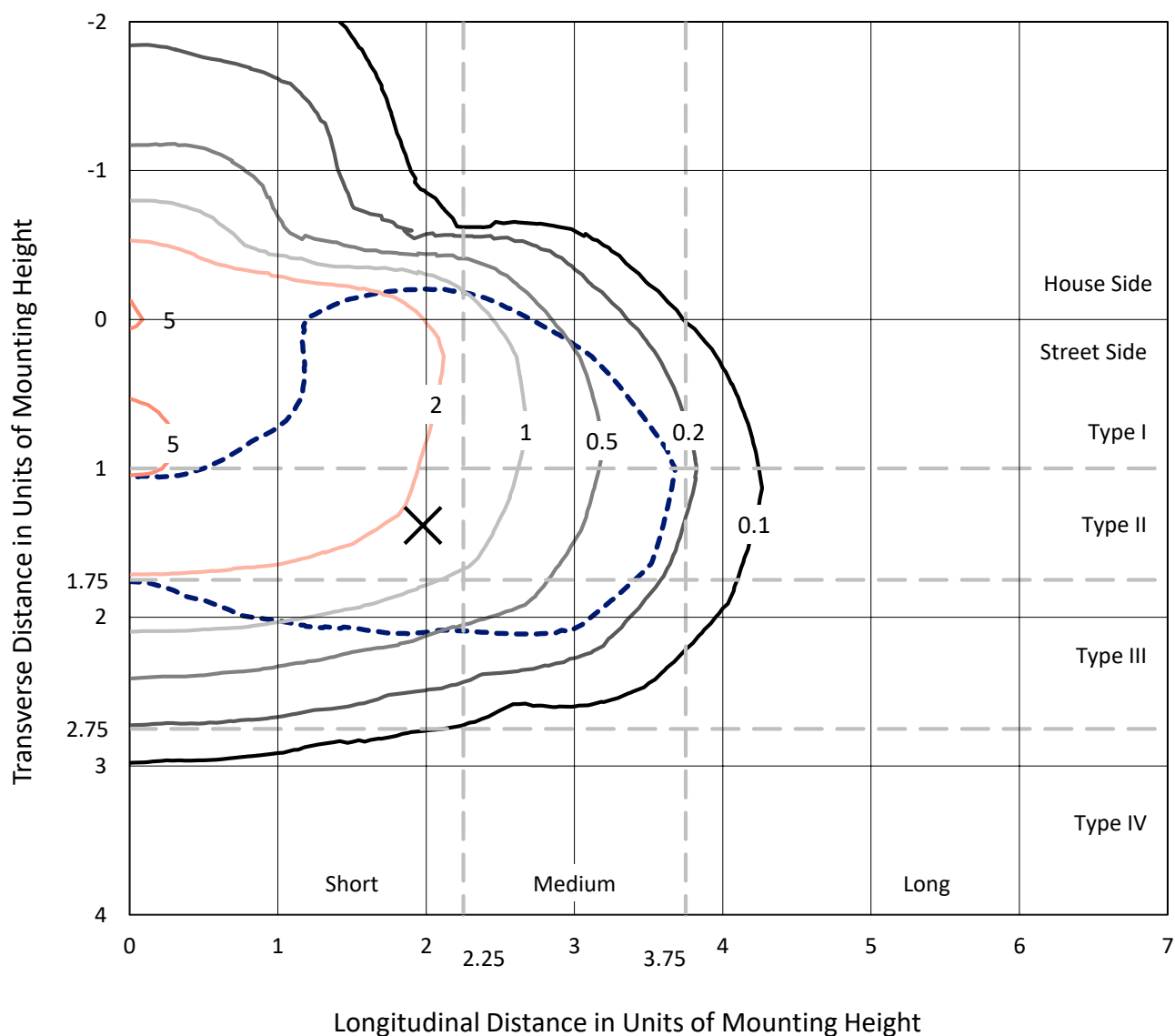


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

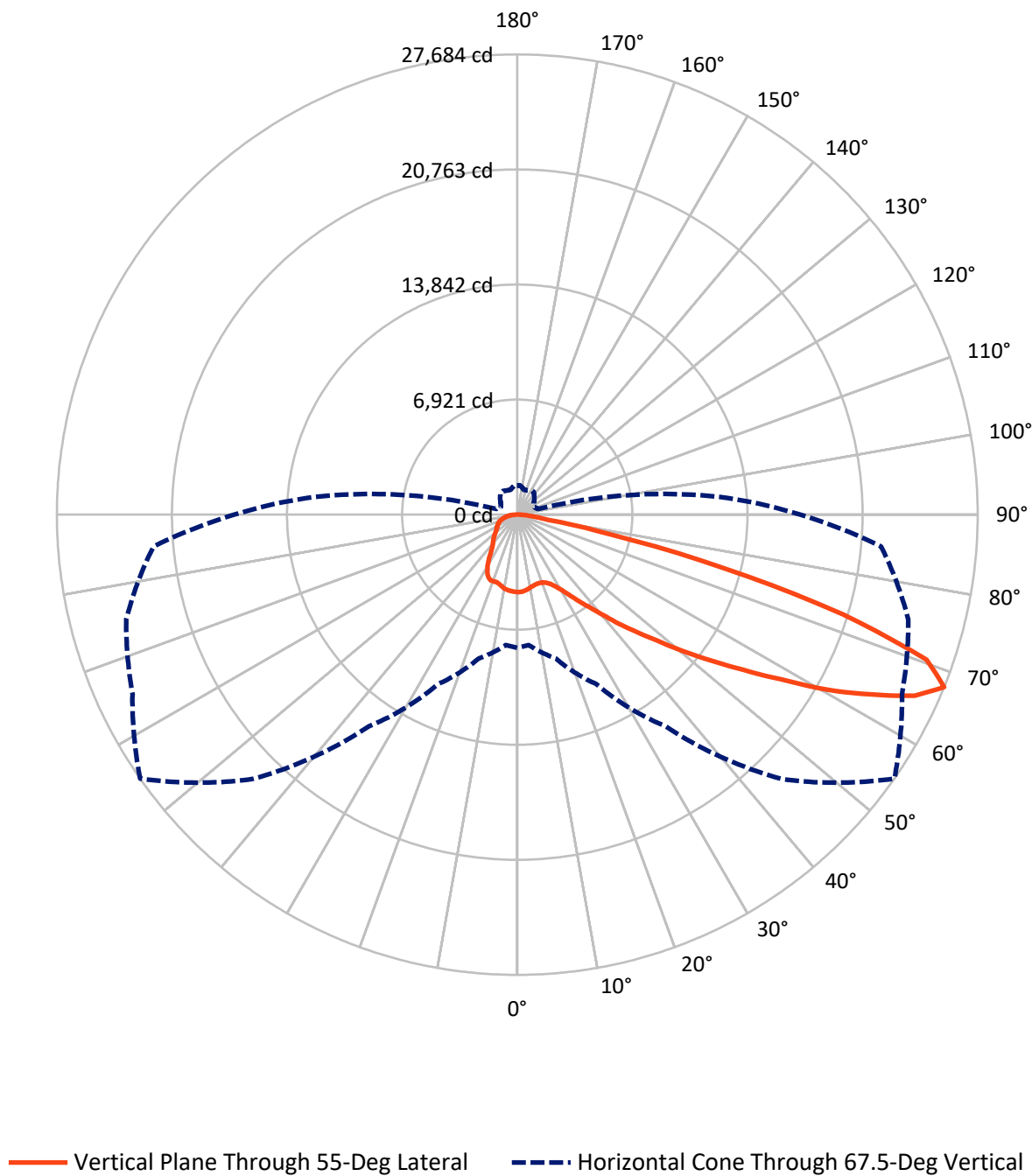


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8161.2	0.0	8161.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29618.5	0.0	29618.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	37779.7	0.0	37779.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.8	1.2
10°-20°	1231.5	3.3
20°-30°	2063.0	5.5
30°-40°	3392.4	9.0
40°-50°	5710.4	15.1
50°-60°	8987.8	23.8
60°-70°	10725.9	28.4
70°-80°	4605.9	12.2
80°-90°	628.0	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°	37779.7	100.0
0°-180°	37779.7	100.0

Coefficient of Utilization



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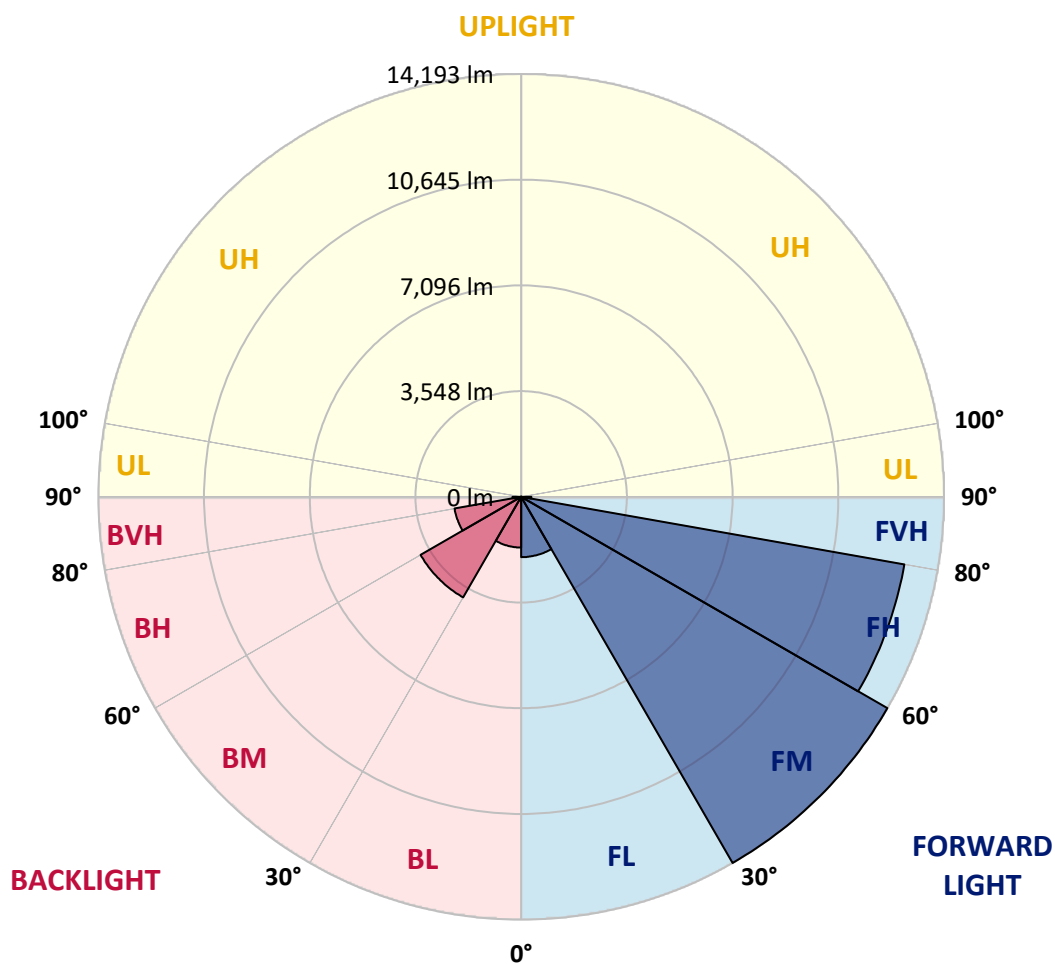
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2025.1	5.4			
FM	(30°-60°)	14192.8	37.6			
FH	(60°-80°)	13060.6	34.6			G5
FVH	(80°-90°)	339.9	0.9			G3/500
BL	(0°-30°)	1704.2	4.5	B3/2500		
BM	(30°-60°)	3897.7	10.3	B3/5000		
BH	(60°-80°)	2271.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	288.0	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°	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6
2.5°	4618.5	4620.3	4624.0	4638.6	4651.3	4647.7	4649.5	4642.2	4640.3	4629.5	4640.3
5°	4560.2	4565.6	4567.4	4591.2	4605.8	4609.4	4603.8	4594.8	4583.9	4572.8	4578.4
7.5°	4426.8	4441.5	4443.3	4476.2	4499.9	4530.9	4532.7	4534.6	4529.2	4521.8	4532.7
10°	4342.9	4346.7	4344.8	4368.5	4386.8	4421.4	4441.5	4476.2	4490.8	4494.4	4501.7
12.5°	4337.5	4333.9	4328.5	4328.5	4322.9	4337.5	4373.9	4423.3	4457.9	4468.9	4478.0
15°	4395.8	4394.1	4375.9	4348.4	4313.8	4302.8	4333.9	4388.6	4434.2	4457.9	4467.1
17.5°	4527.2	4516.3	4487.2	4425.1	4350.2	4321.1	4324.7	4370.4	4423.3	4454.3	4463.3
20°	4768.2	4768.2	4706.2	4589.3	4456.1	4386.8	4353.9	4381.3	4432.3	4474.3	4487.2
22.5°	5184.2	5187.8	5083.9	4892.2	4667.8	4519.9	4437.9	4432.3	4492.6	4540.0	4554.6
25°	5773.6	5758.9	5612.9	5339.3	4998.1	4753.6	4611.2	4578.4	4629.5	4682.5	4700.7
27.5°	6459.7	6406.8	6233.5	5903.2	5461.6	5103.9	4884.9	4832.0	4881.2	4941.5	4959.8
30°	7138.6	7083.8	6877.6	6516.2	6025.4	5572.9	5258.9	5173.2	5242.6	5328.3	5339.3
32.5°	7817.3	7817.3	7587.4	7165.9	6631.3	6133.0	5757.2	5654.9	5770.0	5874.0	5897.7
35°	8629.4	8633.0	8410.3	7903.0	7328.2	6801.0	6386.7	6311.9	6485.2	6558.3	6614.8
37.5°	9627.5	9647.6	9361.2	8748.0	8118.4	7563.7	7071.0	6968.8	7142.2	7341.0	7523.6
40°	10706.0	10731.5	10415.8	9660.3	9030.9	8450.5	7917.7	7733.4	8021.7	8401.3	8636.6
42.5°	11735.1	11866.5	11561.9	10784.4	10107.5	9507.0	8966.9	8698.6	9060.0	9633.0	9837.3
45°	13222.3	13317.2	12786.2	12081.8	11445.0	10773.5	10058.2	9775.3	10280.8	11003.4	11045.3
47.5°	14213.2	14142.0	13871.9	13434.0	13030.7	12403.0	11326.4	11016.2	11687.7	12538.0	12302.6
50°	14740.5	14762.4	14726.0	14751.4	14766.1	14372.0	12881.1	12455.9	13257.0	14284.3	13742.4
52.5°	15233.3	15087.2	15207.7	15806.2	16528.7	16382.8	14572.7	14129.2	14939.4	16222.3	15264.2
55°	15222.2	14999.6	15392.0	16448.6	18016.0	18183.9	16472.3	15961.2	16718.6	18300.6	16877.3
57.5°	14683.9	14695.0	15298.9	16682.0	19052.4	19877.2	18676.6	17910.1	18605.4	20406.5	18349.9
60°	13943.1	14043.4	14913.9	16643.8	19882.8	21265.9	21380.8	20010.5	20453.9	22320.6	19568.9
62.5°	12747.9	12853.7	14054.4	16246.0	19756.8	22603.4	23826.0	22393.7	22386.3	23481.1	19926.4
65°	10862.9	10831.9	12092.9	14758.7	18700.3	23592.5	26254.8	24453.8	23842.4	23499.5	19207.6
67.5°	8010.8	7872.0	8954.2	11240.6	15543.4	22484.9	27683.7	25526.8	24338.8	21953.8	17010.6
70°	4156.9	4018.1	4894.0	6563.7	10222.4	17548.9	26101.6	24972.0	23242.1	18402.9	13326.4
72.5°	1777.3	1753.6	2109.5	2879.5	4945.2	10122.0	20466.7	21614.4	19943.0	13711.4	9162.2
75°	1195.2	1187.9	1321.2	1569.3	2224.4	4107.6	12808.1	15342.7	14590.9	8501.6	5153.2
77.5°	937.9	928.8	1007.3	1127.7	1441.5	1620.5	5684.2	8237.0	7623.9	3700.6	2255.4
80°	733.5	726.2	775.5	841.2	1036.5	1021.9	1870.4	3277.3	2536.5	1417.8	1096.6
82.5°	578.4	578.4	618.6	620.4	735.5	697.1	976.2	1443.5	1266.5	826.6	671.5
85°	529.2	529.2	571.2	463.5	479.8	439.8	605.9	855.8	802.9	339.4	291.9
87.5°	266.4	259.2	479.8	410.6	260.9	233.6	295.6	414.2	445.2	187.9	146.0
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°	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6	4658.6
2.5°	4636.8	4634.9	4638.6	4640.3	4655.0	4675.1	4684.2	4696.9	4704.2	4700.7
5°	4582.0	4585.6	4600.3	4611.2	4636.8	4669.6	4687.9	4702.4	4715.2	4709.7
7.5°	4536.3	4545.5	4567.4	4576.6	4591.2	4600.3	4598.4	4603.8	4614.9	4602.1
10°	4510.9	4521.8	4538.2	4525.4	4490.8	4441.5	4395.8	4372.1	4379.4	4370.4
12.5°	4485.3	4499.9	4487.2	4426.8	4330.2	4266.3	4231.6	4235.3	4251.8	4255.3
15°	4470.7	4476.2	4421.4	4308.3	4209.8	4200.6	4218.8	4215.2	4217.1	4217.1
17.5°	4470.7	4456.1	4353.9	4240.8	4198.9	4182.3	4125.8	4054.6	4023.6	4012.6
20°	4494.4	4456.1	4332.0	4257.2	4165.9	4025.4	3875.9	3744.5	3686.1	3669.6
22.5°	4565.6	4499.9	4394.1	4264.5	4005.3	3770.0	3532.8	3375.8	3270.0	3251.8
25°	4709.7	4636.8	4516.3	4167.8	3749.9	3414.2	3144.1	2968.9	2863.0	2848.5
27.5°	4961.6	4914.2	4582.0	3954.3	3410.5	3051.1	2801.1	2666.0	2587.5	2582.1
30°	5341.1	5317.4	4549.1	3638.6	2992.6	2698.8	2578.4	2500.0	2441.5	2439.8
32.5°	5947.0	5755.3	4441.5	3253.5	2611.3	2448.8	2399.6	2352.2	2306.5	2306.5
35°	6726.1	6109.3	4237.1	2841.2	2379.5	2310.2	2248.1	2173.2	2113.1	2109.5
37.5°	7642.1	6328.3	3870.3	2509.0	2270.0	2217.1	2125.8	2014.5	1908.8	1890.5
40°	8567.3	6394.0	3353.9	2304.8	2200.7	2124.0	2012.8	1881.3	1779.2	1773.8
42.5°	9415.9	6268.1	2806.6	2164.2	2131.3	2029.2	1912.4	1795.5	1715.3	1713.5
45°	10127.5	5941.4	2346.7	2031.0	2058.3	1943.4	1839.4	1744.5	1682.5	1669.7
47.5°	10797.2	5479.8	2023.7	1890.5	1985.4	1895.9	1808.4	1718.9	1658.7	1649.6
50°	11574.5	4981.6	1797.5	1753.6	1921.5	1879.5	1833.9	1740.8	1640.4	1629.5
52.5°	12516.0	4550.9	1620.5	1633.2	1872.2	1901.4	1899.6	1802.9	1627.8	1613.1
55°	13567.2	4072.8	1487.2	1534.6	1852.2	1941.5	1916.0	1861.2	1638.7	1616.7
57.5°	14601.9	3514.6	1394.1	1459.8	1823.0	1937.9	1837.5	1759.1	1664.2	1633.2
60°	15377.3	2764.5	1322.9	1394.1	1759.1	1877.7	1751.8	1647.7	1658.7	1634.9
62.5°	15428.5	2136.8	1237.2	1337.6	1662.4	1817.5	1695.2	1598.5	1682.5	1660.5
65°	14521.5	1615.0	1155.1	1270.0	1558.4	1779.2	1640.4	1571.1	1731.8	1707.9
67.5°	12226.0	1299.2	1085.7	1200.6	1454.4	1698.9	1591.3	1545.6	1775.5	1733.5
70°	8826.4	1107.7	1018.2	1116.7	1361.3	1607.6	1547.4	1499.9	1656.9	1591.3
72.5°	5434.2	959.9	941.6	1005.4	1290.2	1512.7	1481.7	1414.3	1492.7	1439.7
75°	2713.5	832.1	855.8	895.9	1189.8	1405.1	1372.2	1304.7	1315.7	1304.7
77.5°	1299.2	711.8	755.4	786.4	1060.2	1282.8	1248.2	1178.8	1166.1	1167.9
80°	822.9	594.9	636.9	658.8	947.1	1140.4	1105.8	1036.5	1182.4	1096.6
82.5°	514.6	483.6	494.5	534.6	824.8	992.7	947.1	885.0	1065.8	843.1
85°	284.6	337.6	352.2	386.9	635.1	830.3	784.7	706.2	633.1	622.2
87.5°	169.7	200.7	206.2	231.7	426.9	600.4	531.0	503.6	417.9	416.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)