

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: P191454

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191454
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36426.3 lumens
Efficiency: N/A
Efficacy: 109.4 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): 333
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

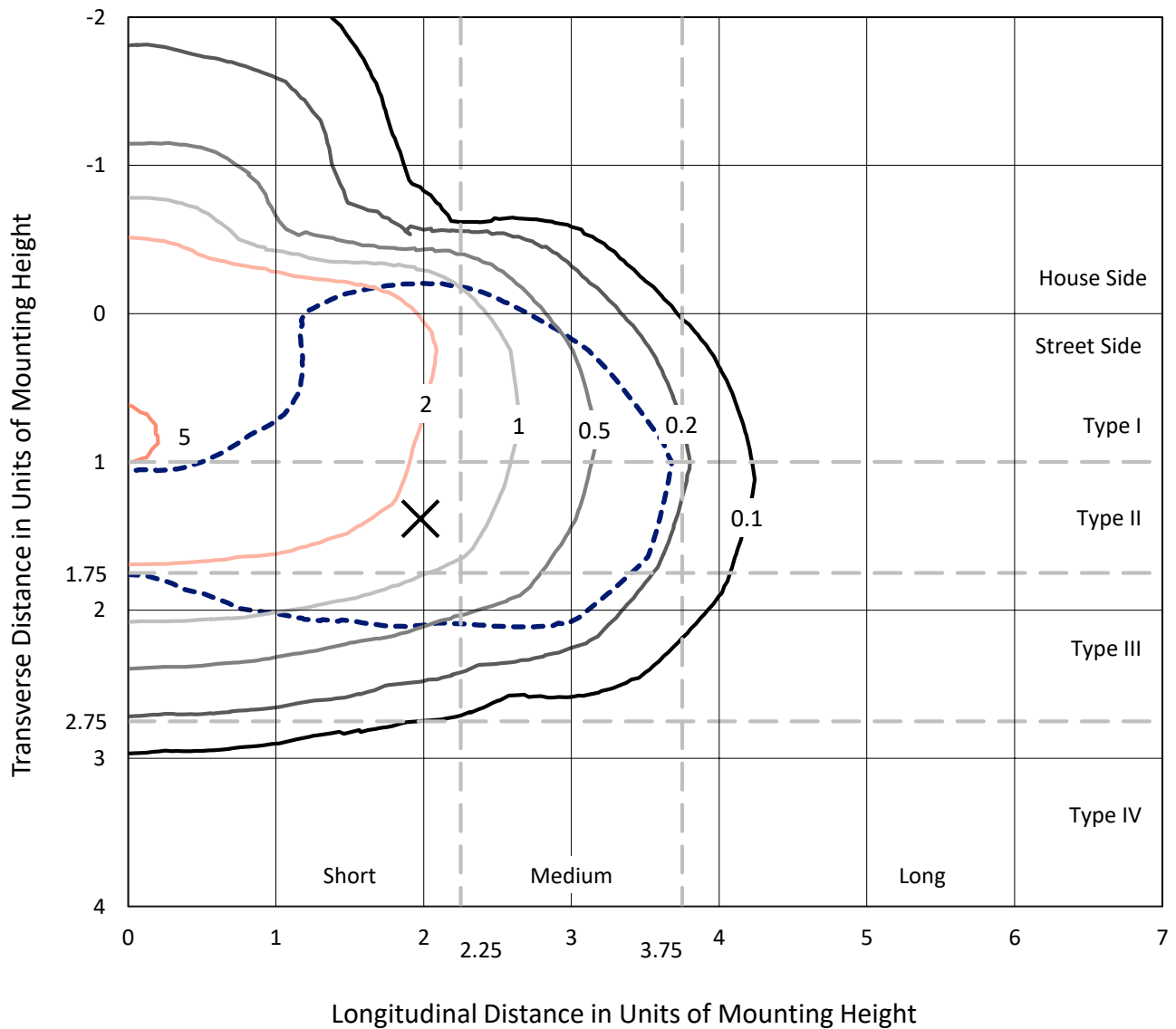


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

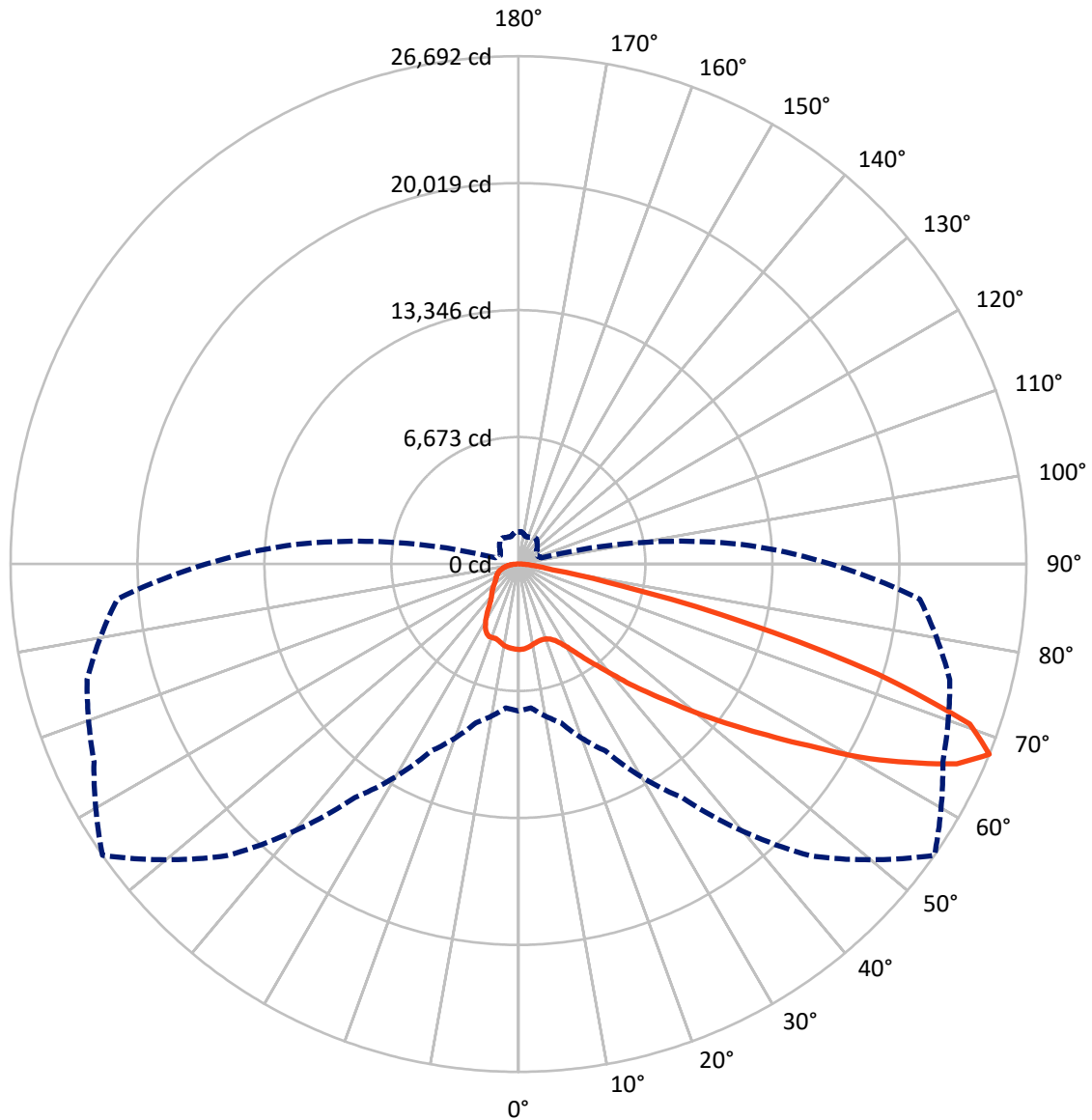


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Full Cutoff

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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	7868.9	0.0	7868.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28557.4	0.0	28557.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	36426.3	0.0	36426.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.3	1.2
10°-20°	1187.4	3.3
20°-30°	1989.0	5.5
30°-40°	3270.9	9.0
40°-50°	5505.8	15.1
50°-60°	8665.8	23.8
60°-70°	10341.7	28.4
70°-80°	4440.9	12.2
80°-90°	605.5	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°	36426.3	100.0
0°-180°	36426.3	100.0



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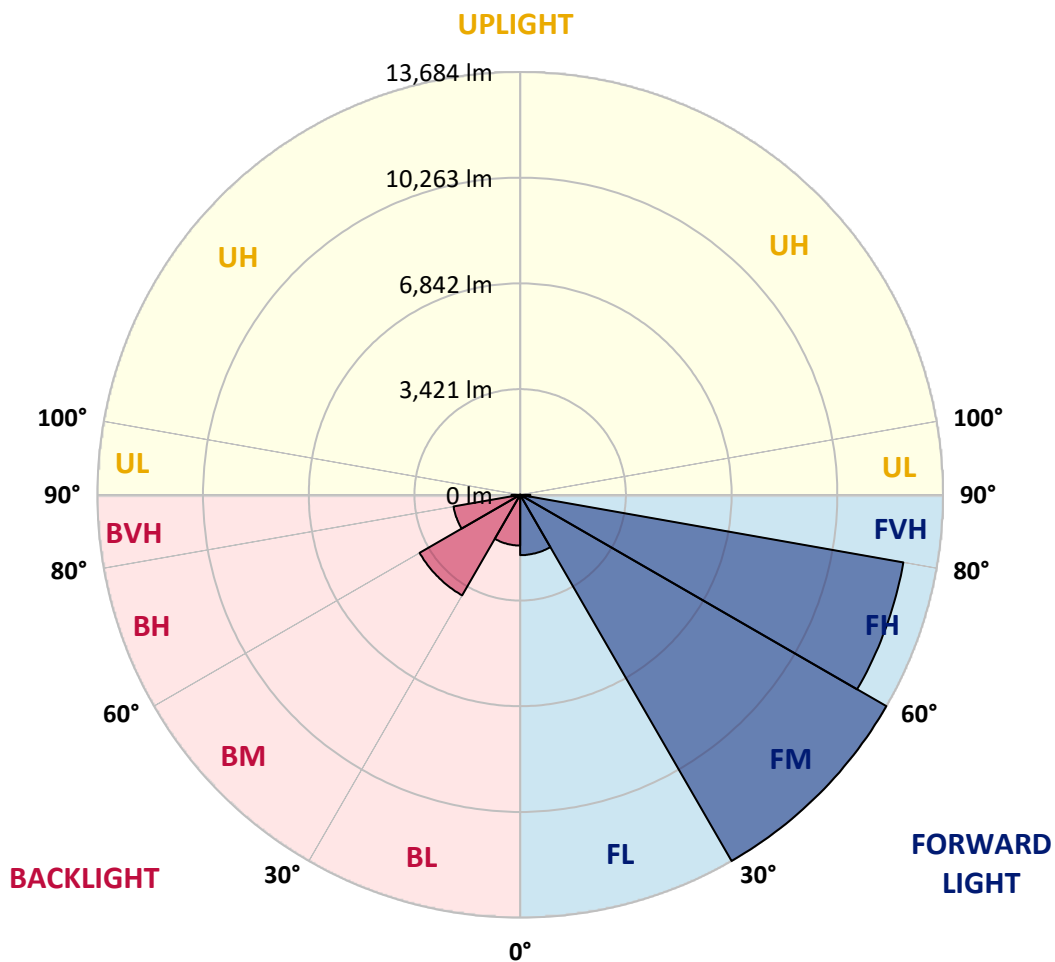
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1952.5	5.4			
FM	(30°-60°)	13684.4	37.6			
FH	(60°-80°)	12592.7	34.6			G5
FVH	(80°-90°)	327.8	0.9			G3/500
BL	(0°-30°)	1643.2	4.5	B3/2500		
BM	(30°-60°)	3758.1	10.3	B3/5000		
BH	(60°-80°)	2189.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	277.7	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°	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8
2.5°	4453.0	4454.8	4458.3	4472.4	4484.7	4481.2	4483.0	4475.9	4474.2	4463.6	4474.2
5°	4396.7	4402.1	4403.8	4426.6	4440.7	4444.2	4439.0	4430.2	4419.7	4409.0	4414.3
7.5°	4268.3	4282.4	4284.1	4315.8	4338.6	4368.6	4370.4	4372.1	4366.9	4359.8	4370.4
10°	4187.3	4190.9	4189.2	4212.0	4229.6	4263.0	4282.4	4315.8	4329.8	4333.4	4340.5
12.5°	4182.1	4178.5	4173.3	4173.3	4168.0	4182.1	4217.3	4264.8	4298.2	4308.8	4317.6
15°	4238.4	4236.7	4219.1	4192.7	4159.2	4148.7	4178.5	4231.3	4275.3	4298.2	4307.0
17.5°	4365.0	4354.5	4326.4	4266.5	4194.4	4166.3	4169.8	4213.7	4264.8	4294.7	4303.5
20°	4597.3	4597.3	4537.5	4424.9	4296.5	4229.6	4198.0	4224.3	4273.6	4314.1	4326.4
22.5°	4998.4	5002.0	4901.7	4716.9	4500.6	4358.1	4278.9	4273.6	4331.7	4377.4	4391.4
25°	5566.8	5552.7	5411.9	5148.0	4819.0	4583.2	4446.1	4414.3	4463.6	4514.6	4532.2
27.5°	6228.2	6177.3	6010.1	5691.7	5265.8	4921.0	4709.9	4658.9	4706.4	4764.5	4782.1
30°	6882.8	6830.0	6631.2	6282.9	5809.5	5373.3	5070.6	4987.9	5054.8	5137.5	5148.0
32.5°	7537.3	7537.3	7315.6	6909.2	6393.6	5913.4	5550.9	5452.4	5563.2	5663.6	5686.4
35°	8320.2	8323.8	8109.1	7620.0	7065.7	6557.3	6158.0	6085.7	6252.9	6323.3	6377.8
37.5°	9282.6	9302.0	9025.7	8434.5	7827.6	7292.7	6817.7	6719.2	6886.3	7078.1	7254.1
40°	10322.4	10347.0	10042.7	9314.3	8707.3	8147.8	7634.1	7456.4	7734.3	8100.3	8327.2
42.5°	11314.8	11441.4	11147.6	10398.1	9745.3	9166.5	8645.7	8387.1	8735.4	9287.9	9484.9
45°	12748.6	12840.1	12328.1	11649.0	11035.0	10387.6	9697.8	9425.2	9912.5	10609.2	10649.6
47.5°	13704.0	13635.3	13375.0	12952.7	12563.9	11958.7	10920.6	10621.5	11268.9	12088.8	11861.9
50°	14212.5	14233.5	14198.4	14223.0	14237.1	13857.1	12419.6	12009.6	12782.1	13772.6	13250.1
52.5°	14687.5	14546.8	14662.9	15239.9	15936.7	15795.9	14050.6	13623.0	14404.3	15641.1	14717.4
55°	14676.9	14462.3	14840.6	15859.2	17370.6	17532.5	15882.1	15389.5	16119.7	17645.1	16272.7
57.5°	14157.9	14168.5	14750.8	16084.5	18369.9	19165.2	18007.5	17268.5	17938.9	19675.4	17692.5
60°	13443.6	13540.4	14379.6	16047.5	19170.4	20504.1	20614.9	19293.6	19721.2	21521.0	18867.8
62.5°	12291.2	12393.3	13550.9	15663.9	19049.1	21793.8	22972.5	21591.4	21584.4	22639.9	19212.7
65°	10473.7	10443.8	11659.6	14230.1	18030.3	22747.4	25314.2	23577.8	22988.4	22657.5	18519.5
67.5°	7723.8	7590.1	8633.4	10838.0	14986.6	21679.4	26691.9	24612.3	23466.9	21167.4	16401.2
70°	4007.9	3874.2	4718.7	6328.6	9856.1	16920.2	25166.5	24077.4	22409.5	17743.6	12848.9
72.5°	1713.6	1690.8	2033.8	2776.3	4768.0	9759.4	19733.4	20840.2	19228.5	13220.1	8834.0
75°	1152.5	1145.4	1273.8	1513.0	2144.7	3960.5	12349.3	14793.1	14068.2	8197.0	4968.6
77.5°	904.3	895.5	971.2	1087.3	1389.9	1562.4	5480.6	7942.0	7350.8	3568.1	2174.6
80°	707.3	700.2	747.8	811.1	999.3	985.3	1803.4	3159.9	2445.6	1367.1	1057.4
82.5°	557.7	557.7	596.5	598.2	709.0	672.1	941.3	1391.7	1221.0	797.0	647.4
85°	510.2	510.2	550.7	446.9	462.7	424.0	584.1	825.1	774.2	327.2	281.5
87.5°	256.9	249.8	462.7	395.9	251.5	225.3	285.0	399.4	429.3	181.3	140.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8	4491.8
2.5°	4470.6	4468.9	4472.4	4474.2	4488.2	4507.6	4516.4	4528.7	4535.8	4532.2
5°	4417.8	4421.4	4435.4	4446.1	4470.6	4502.3	4519.9	4534.0	4546.3	4541.0
7.5°	4373.8	4382.6	4403.8	4412.6	4426.6	4435.4	4433.7	4439.0	4449.5	4437.3
10°	4349.3	4359.8	4375.7	4363.3	4329.8	4282.4	4238.4	4215.5	4222.5	4213.7
12.5°	4324.6	4338.6	4326.4	4268.3	4175.1	4113.5	4080.0	4083.6	4099.4	4103.0
15°	4310.5	4315.8	4263.0	4154.0	4059.0	4050.2	4067.8	4064.2	4066.0	4066.0
17.5°	4310.5	4296.5	4198.0	4088.8	4048.4	4032.6	3978.1	3909.4	3879.4	3868.9
20°	4333.4	4296.5	4176.8	4104.7	4016.7	3881.3	3736.9	3610.3	3554.0	3538.2
22.5°	4402.1	4338.6	4236.7	4111.8	3861.8	3635.0	3406.2	3254.9	3152.8	3135.2
25°	4541.0	4470.6	4354.5	4018.5	3615.6	3291.9	3031.4	2862.5	2760.5	2746.4
27.5°	4783.8	4738.1	4417.8	3812.6	3288.3	2941.7	2700.7	2570.5	2494.9	2489.6
30°	5149.7	5126.9	4386.2	3508.2	2885.4	2602.2	2486.1	2410.4	2354.1	2352.3
32.5°	5733.8	5549.2	4282.4	3137.0	2517.7	2361.1	2313.6	2267.9	2223.9	2223.9
35°	6485.2	5890.5	4085.4	2739.4	2294.3	2227.4	2167.6	2095.4	2037.4	2033.8
37.5°	7368.4	6101.6	3731.7	2419.2	2188.7	2137.7	2049.7	1942.4	1840.3	1822.7
40°	8260.4	6164.9	3233.8	2222.2	2121.8	2047.9	1940.6	1813.9	1715.4	1710.2
42.5°	9078.5	6043.6	2706.0	2086.6	2055.0	1956.5	1843.9	1731.2	1653.8	1652.1
45°	9764.7	5728.6	2262.6	1958.2	1984.6	1873.7	1773.5	1682.0	1622.2	1609.8
47.5°	10410.4	5283.4	1951.2	1822.7	1914.2	1828.0	1743.5	1657.4	1599.3	1590.5
50°	11159.9	4803.2	1733.0	1690.8	1852.7	1812.2	1768.2	1678.5	1581.7	1571.2
52.5°	12067.8	4387.9	1562.4	1574.6	1805.1	1833.3	1831.5	1738.3	1569.4	1555.3
55°	13081.2	3927.0	1433.9	1479.7	1785.8	1872.0	1847.3	1794.6	1579.9	1558.9
57.5°	14078.8	3388.6	1344.2	1407.5	1757.6	1868.5	1771.8	1696.1	1604.6	1574.6
60°	14826.4	2665.5	1275.5	1344.2	1696.1	1810.4	1689.0	1588.7	1599.3	1576.5
62.5°	14875.8	2060.2	1192.9	1289.6	1602.9	1752.3	1634.5	1541.3	1622.2	1601.0
65°	14001.3	1557.0	1113.7	1224.6	1502.5	1715.4	1581.7	1514.9	1669.7	1646.8
67.5°	11788.0	1252.7	1046.9	1157.7	1402.3	1638.1	1534.2	1490.2	1711.9	1671.4
70°	8510.2	1068.0	981.7	1076.8	1312.5	1550.1	1492.0	1446.2	1597.5	1534.2
72.5°	5239.5	925.5	907.9	969.5	1243.9	1458.5	1428.7	1363.5	1439.2	1388.1
75°	2616.2	802.3	825.1	863.9	1147.1	1354.7	1323.1	1257.9	1268.6	1257.9
77.5°	1252.7	686.2	728.4	758.3	1022.2	1236.8	1203.4	1136.6	1124.2	1126.1
80°	793.5	573.6	614.1	635.2	913.1	1099.7	1066.2	999.3	1140.1	1057.4
82.5°	496.1	466.3	476.8	515.5	795.2	957.1	913.1	853.3	1027.5	812.8
85°	274.5	325.5	339.5	373.0	612.2	800.6	756.6	680.9	610.5	600.0
87.5°	163.7	193.5	198.9	223.4	411.7	578.9	512.0	485.6	402.9	401.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)