

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: P191437

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191437
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-09-LED-E1-T3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 35872.8 lumens
Efficiency: N/A
Efficacy: 123.7 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

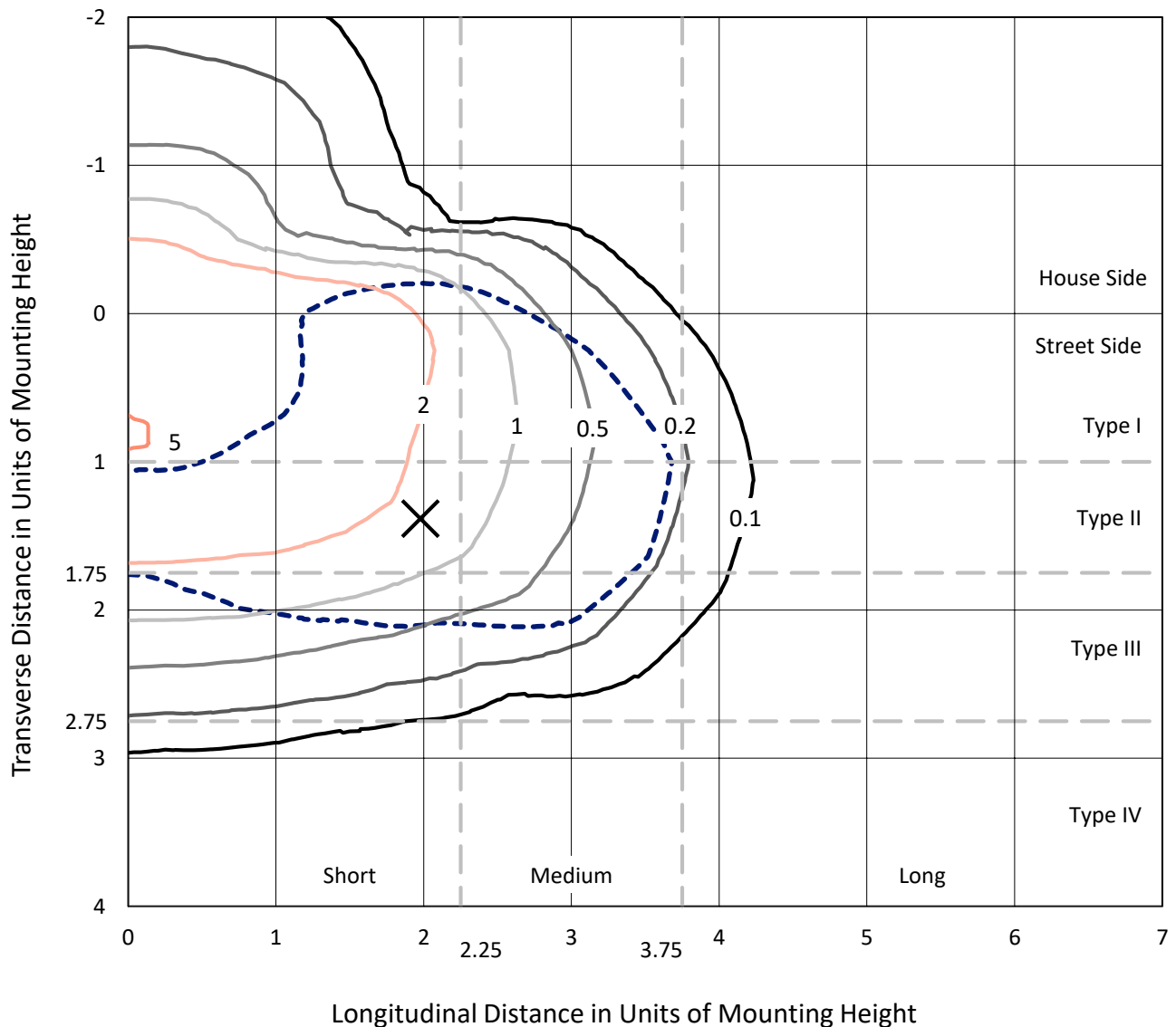
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

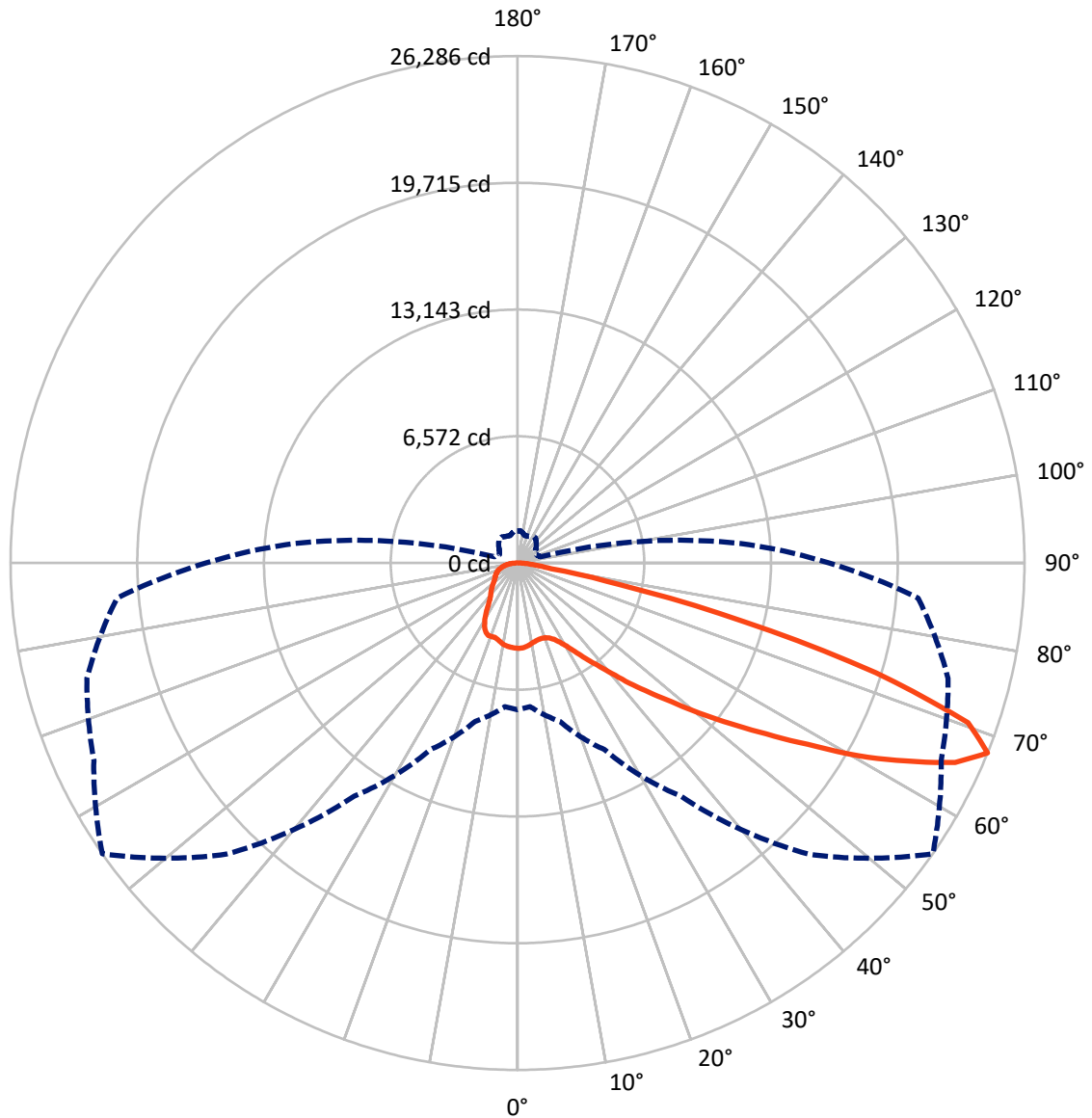
✕ Max cd
 - - - 1/2 Max cd



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	7749.3	0.0	7749.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28123.5	0.0	28123.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	35872.8	0.0	35872.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.9	1.2
10°-20°	1169.4	3.3
20°-30°	1958.8	5.5
30°-40°	3221.2	9.0
40°-50°	5422.2	15.1
50°-60°	8534.1	23.8
60°-70°	10184.6	28.4
70°-80°	4373.4	12.2
80°-90°	596.3	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°	35872.8	100.0
0°-180°	35872.8	100.0



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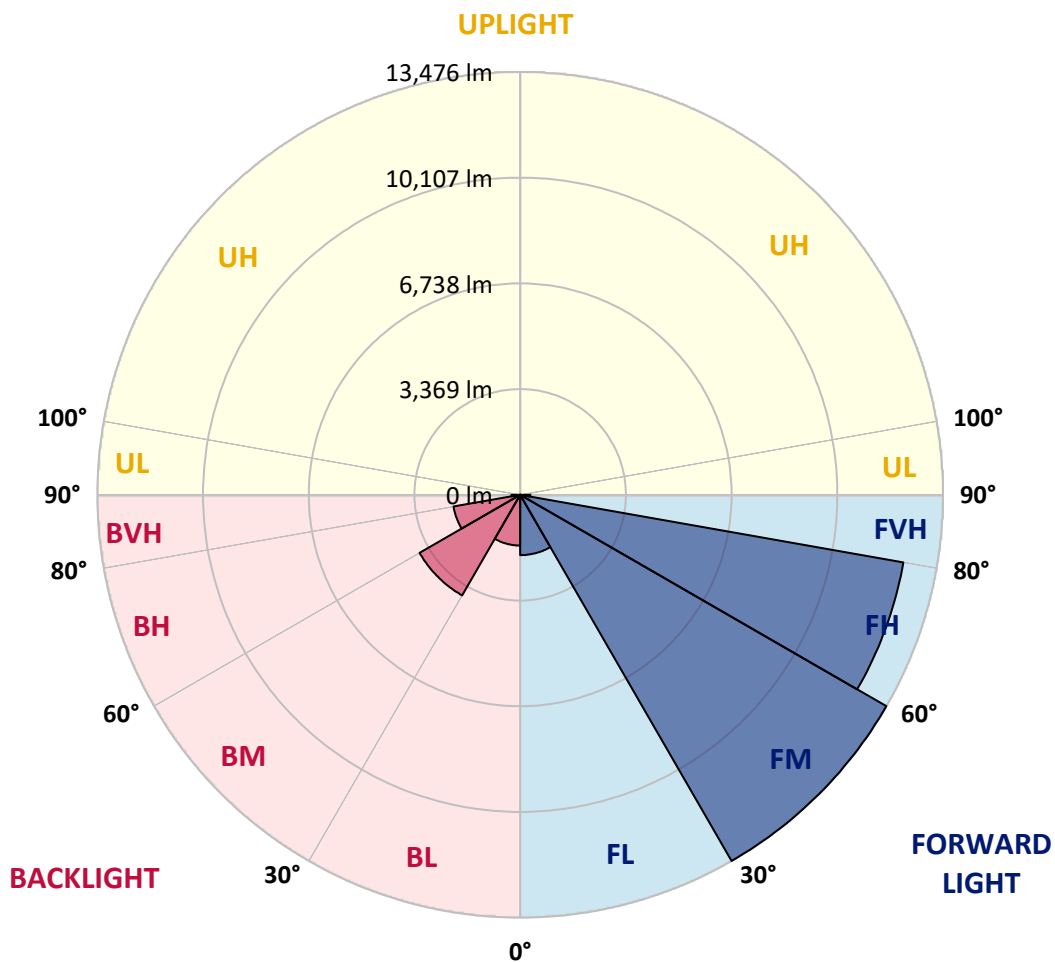
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1922.9	5.4			
FM	(30°-60°)	13476.5	37.6			
FH	(60°-80°)	12401.4	34.6			G5
FVH	(80°-90°)	322.8	0.9			G3/500
BL	(0°-30°)	1618.2	4.5	B3/2500		
BM	(30°-60°)	3701.0	10.3	B3/5000		
BH	(60°-80°)	2156.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	273.5	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°	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5
2.5°	4385.4	4387.1	4390.6	4404.4	4416.6	4413.1	4414.9	4407.9	4406.2	4395.8	4406.2
5°	4329.9	4335.2	4336.9	4359.4	4373.2	4376.7	4371.6	4362.9	4352.5	4342.1	4347.2
7.5°	4203.5	4217.3	4219.1	4250.3	4272.8	4302.2	4304.0	4305.7	4300.5	4293.5	4304.0
10°	4123.7	4127.2	4125.5	4148.1	4165.4	4198.3	4217.3	4250.3	4264.1	4267.5	4274.5
12.5°	4118.6	4115.1	4109.9	4109.9	4104.7	4118.6	4153.2	4200.0	4232.9	4243.3	4252.0
15°	4174.0	4172.3	4154.9	4128.9	4096.0	4085.7	4115.1	4167.1	4210.4	4232.9	4241.6
17.5°	4298.7	4288.4	4260.7	4201.8	4130.7	4103.0	4106.4	4149.7	4200.0	4229.5	4238.1
20°	4527.5	4527.5	4468.6	4357.7	4231.2	4165.4	4134.2	4160.1	4208.6	4248.5	4260.7
22.5°	4922.5	4926.0	4827.2	4645.3	4432.1	4291.8	4213.8	4208.6	4265.8	4310.9	4324.7
25°	5482.2	5468.3	5329.7	5069.8	4745.8	4513.6	4378.4	4347.2	4395.8	4446.1	4463.3
27.5°	6133.6	6083.4	5918.8	5605.2	5185.8	4846.3	4638.4	4588.1	4634.9	4692.1	4709.4
30°	6778.2	6726.2	6530.4	6187.4	5721.3	5291.6	4993.5	4912.1	4978.0	5059.4	5069.8
32.5°	7422.7	7422.7	7204.4	6804.2	6296.6	5823.6	5466.5	5369.6	5478.7	5577.4	5600.0
35°	8193.8	8197.3	7985.9	7504.2	6958.4	6457.7	6064.4	5993.3	6158.0	6227.2	6280.9
37.5°	9141.6	9160.6	8888.6	8306.5	7708.7	7181.9	6714.1	6617.1	6781.7	6970.6	7143.8
40°	10165.6	10189.8	9890.1	9172.8	8575.0	8024.0	7518.1	7343.0	7616.8	7977.2	8200.7
42.5°	11142.8	11267.6	10978.2	10240.0	9597.2	9027.2	8514.3	8259.6	8602.7	9146.8	9340.9
45°	12555.0	12645.0	12140.8	11472.0	10867.3	10229.7	9550.5	9281.9	9761.9	10448.0	10487.9
47.5°	13495.8	13428.2	13171.8	12755.9	12373.0	11776.9	10754.7	10460.2	11097.8	11905.2	11681.7
50°	13996.5	14017.3	13982.7	14007.0	14020.8	13646.6	12230.9	11827.3	12587.8	13563.4	13048.8
52.5°	14464.3	14325.7	14440.1	15008.4	15694.5	15555.9	13837.1	13416.1	14185.4	15403.5	14493.8
55°	14454.0	14242.5	14615.1	15618.3	17106.7	17266.1	15640.8	15155.7	15874.8	17377.0	16025.4
57.5°	13942.8	13953.3	14526.7	15840.1	18090.8	18874.0	17733.9	17006.1	17666.4	19376.4	17423.7
60°	13239.3	13334.7	14161.1	15803.7	18879.2	20192.5	20301.7	19000.5	19421.5	21194.0	18581.2
62.5°	12104.5	12204.9	13345.0	15426.0	18759.7	21462.6	22623.5	21263.4	21256.4	22296.0	18920.8
65°	10314.6	10285.2	11482.4	14013.8	17756.4	22401.7	24929.7	23219.6	22639.1	22313.3	18238.1
67.5°	7606.5	7474.7	8502.3	10673.3	14758.9	21350.0	26286.4	24238.3	23110.4	20845.8	16152.0
70°	3947.1	3815.3	4647.1	6232.4	9706.5	16663.2	24784.2	23711.6	22069.0	17474.0	12653.7
72.5°	1687.7	1665.1	2002.9	2734.1	4695.5	9611.1	19433.6	20523.5	18936.4	13019.3	8699.8
75°	1134.9	1128.0	1254.4	1490.1	2112.1	3900.2	12161.7	14568.4	13854.4	8072.5	4893.1
77.5°	890.6	881.9	956.5	1070.8	1368.8	1538.6	5397.3	7821.3	7239.1	3513.8	2141.5
80°	696.5	689.6	736.4	798.7	984.2	970.3	1775.9	3111.9	2408.4	1346.3	1041.4
82.5°	549.2	549.2	587.4	589.1	698.3	661.8	927.0	1370.5	1202.5	784.9	637.6
85°	502.5	502.5	542.4	440.1	455.7	417.6	575.2	812.6	762.4	322.2	277.2
87.5°	253.0	246.0	455.7	389.8	247.8	221.8	280.7	393.3	422.8	178.5	138.6
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°	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5	4423.5
2.5°	4402.7	4400.9	4404.4	4406.2	4420.1	4439.1	4447.8	4459.9	4466.8	4463.3
5°	4350.7	4354.2	4368.1	4378.4	4402.7	4433.9	4451.3	4465.1	4477.3	4472.0
7.5°	4307.4	4316.1	4336.9	4345.5	4359.4	4368.1	4366.4	4371.6	4381.9	4369.8
10°	4283.2	4293.5	4309.2	4297.0	4264.1	4217.3	4174.0	4151.4	4158.4	4149.7
12.5°	4259.0	4272.8	4260.7	4203.5	4111.6	4051.0	4018.0	4021.5	4037.2	4040.6
15°	4245.0	4250.3	4198.3	4090.9	3997.3	3988.6	4006.0	4002.5	4004.2	4004.2
17.5°	4245.0	4231.2	4134.2	4026.7	3986.8	3971.3	3917.6	3850.0	3820.5	3810.2
20°	4267.5	4231.2	4113.4	4042.3	3955.6	3822.3	3680.2	3555.5	3500.0	3484.4
22.5°	4335.2	4272.8	4172.3	4049.2	3803.2	3579.7	3354.5	3205.4	3105.0	3087.6
25°	4472.0	4402.7	4288.4	3957.4	3560.7	3241.8	2985.4	2819.0	2718.6	2704.7
27.5°	4711.1	4666.1	4350.7	3754.7	3238.4	2897.0	2659.7	2531.4	2456.9	2451.7
30°	5071.5	5049.0	4319.5	3454.9	2841.6	2562.6	2448.2	2373.8	2318.3	2316.6
32.5°	5646.8	5464.8	4217.3	3089.3	2479.4	2325.3	2278.4	2233.4	2190.1	2190.1
35°	6386.6	5800.9	4023.3	2697.7	2259.4	2193.5	2134.7	2063.6	2006.4	2002.9
37.5°	7256.4	6008.9	3675.0	2382.5	2155.5	2105.2	2018.6	1912.9	1812.4	1795.1
40°	8134.9	6071.3	3184.7	2188.4	2089.6	2016.8	1911.2	1786.4	1689.4	1684.2
42.5°	8940.6	5951.7	2664.9	2054.9	2023.8	1926.7	1815.8	1705.0	1628.7	1627.0
45°	9616.4	5641.6	2228.2	1928.5	1954.4	1845.3	1746.5	1656.5	1597.5	1585.4
47.5°	10252.2	5203.2	1921.5	1795.1	1885.2	1800.3	1717.1	1632.2	1575.0	1566.3
50°	10990.4	4730.2	1706.7	1665.1	1824.5	1784.6	1741.4	1653.0	1557.6	1547.3
52.5°	11884.4	4321.3	1538.6	1550.7	1777.7	1805.4	1803.7	1711.9	1545.6	1531.7
55°	12882.4	3867.4	1412.1	1457.2	1758.7	1843.6	1819.3	1767.4	1555.9	1535.1
57.5°	13864.9	3337.2	1323.8	1386.1	1730.9	1840.1	1744.8	1670.3	1580.2	1550.7
60°	14601.2	2625.0	1256.2	1323.8	1670.3	1782.9	1663.3	1564.6	1575.0	1552.4
62.5°	14649.8	2028.9	1174.8	1270.1	1578.5	1725.7	1609.6	1517.9	1597.5	1576.8
65°	13788.6	1533.4	1096.8	1206.0	1479.7	1689.4	1557.6	1491.9	1644.3	1621.8
67.5°	11608.9	1233.7	1030.9	1140.1	1381.0	1613.1	1510.9	1467.5	1685.9	1646.0
70°	8380.9	1051.7	966.8	1060.4	1292.6	1526.4	1469.3	1424.3	1573.3	1510.9
72.5°	5159.9	911.3	894.1	954.7	1225.0	1436.4	1407.0	1342.8	1417.3	1367.1
75°	2576.5	790.1	812.6	850.8	1129.7	1334.1	1302.9	1238.9	1249.2	1238.9
77.5°	1233.7	675.8	717.3	746.8	1006.7	1218.0	1185.2	1119.3	1107.1	1108.9
80°	781.4	564.9	604.7	625.5	899.3	1082.9	1050.0	984.2	1122.8	1041.4
82.5°	488.7	459.2	469.5	507.7	783.2	942.5	899.3	840.4	1011.9	800.5
85°	270.3	320.6	334.4	367.3	602.9	788.4	745.0	670.5	601.2	590.9
87.5°	161.1	190.6	195.8	220.0	405.4	570.1	504.2	478.2	396.8	395.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)