

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: P190971

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19071.9 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 166
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

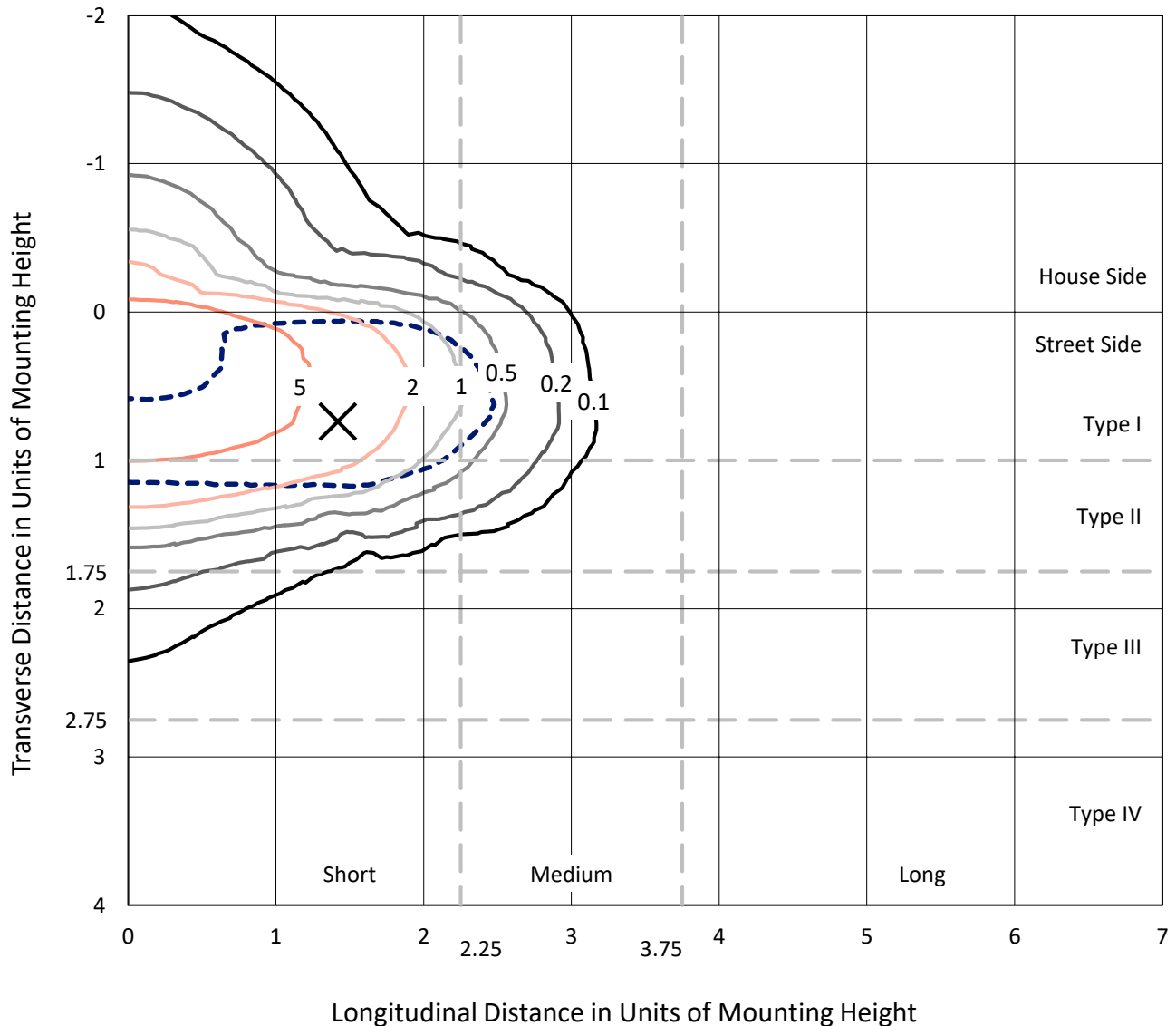


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Iso-Footcandle Lines of Horizontal Illumination

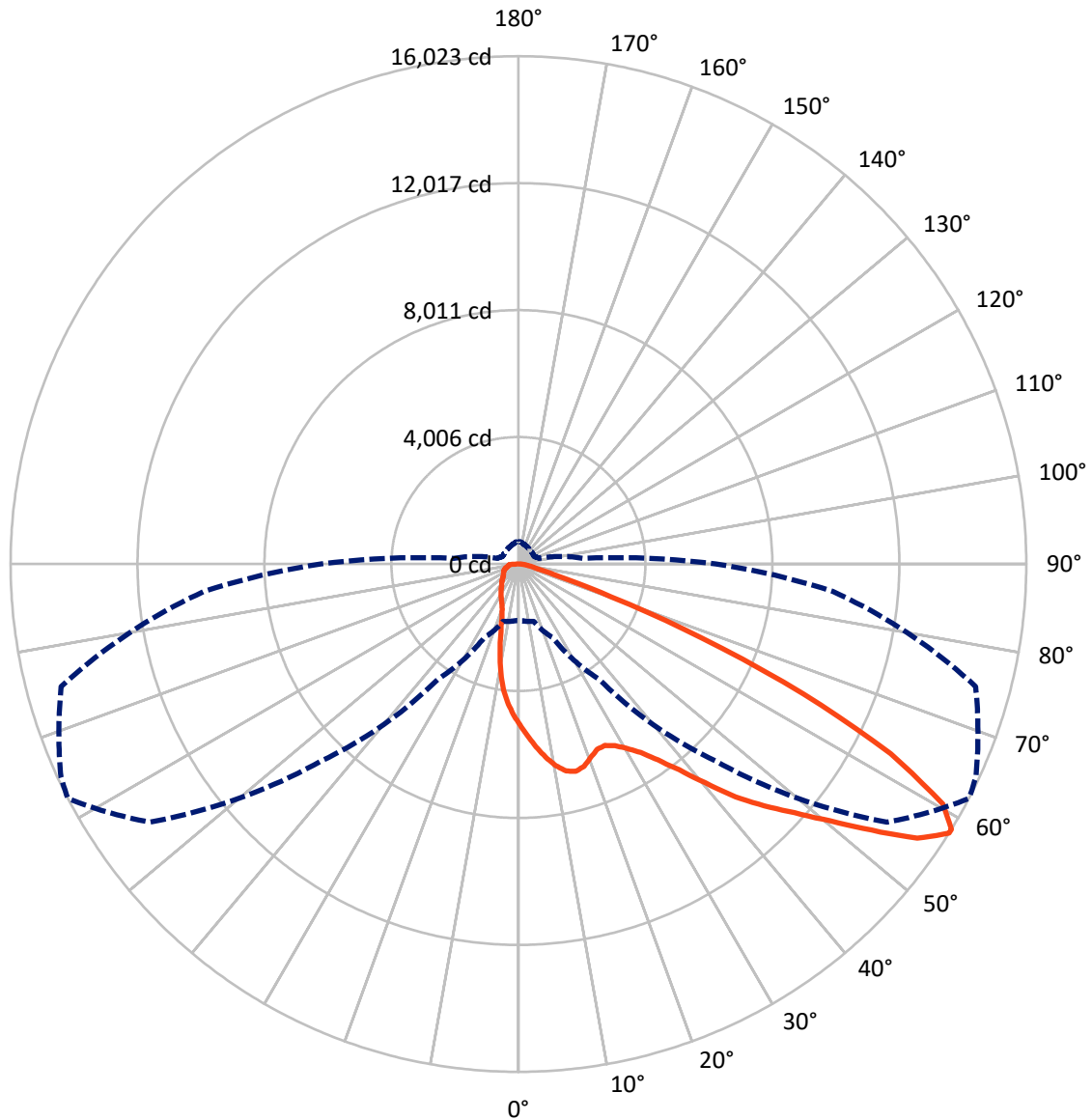
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2908.5	0.0	2908.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16163.4	0.0	16163.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	19071.9	0.0	19071.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.1	2.4
10°-20°	1158.2	6.1
20°-30°	1872.2	9.8
30°-40°	2972.1	15.6
40°-50°	4348.8	22.8
50°-60°	4548.5	23.8
60°-70°	2687.2	14.1
70°-80°	757.0	4.0
80°-90°	274.8	1.4
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°	19071.9	100.0
0°-180°	19071.9	100.0

Coefficient of Utilization



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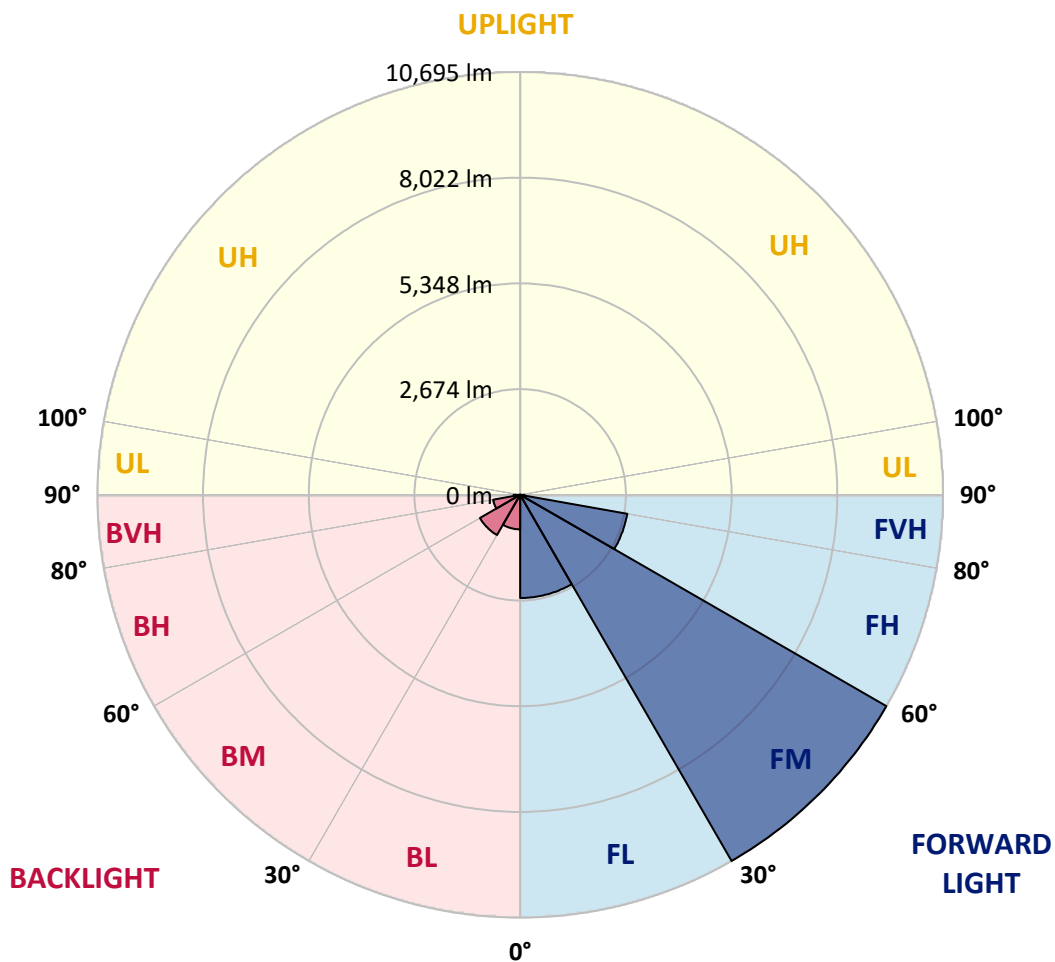
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.3	13.7			
FM (30°-60°)	10695.4	56.1			
FH (60°-80°)	2750.2	14.4			G2/5000
FVH (80°-90°)	108.4	0.6			G2/225
BL (0°-30°)	874.2	4.6	B2/1000		
BM (30°-60°)	1174.0	6.2	B2/2500		
BH (60°-80°)	694.0	3.6	B2/1000		G2/1000
BVH (80°-90°)	166.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1
2.5°	5789.0	5742.3	5712.7	5686.6	5652.5	5579.8	5481.9	5419.9	5388.5	5281.6	5155.0
5°	6356.6	6315.3	6284.7	6249.7	6188.6	6074.6	5916.5	5790.8	5728.8	5515.1	5261.9
7.5°	6223.6	6240.7	6293.7	6386.3	6465.3	6450.0	6309.0	6149.2	6067.4	5770.2	5385.7
10°	5422.6	5452.2	5543.9	5760.2	6110.5	6469.8	6579.3	6468.8	6386.3	6022.5	5513.3
12.5°	5261.9	5260.9	5268.1	5325.6	5534.0	6039.6	6588.3	6699.7	6650.3	6263.2	5643.5
15°	5327.4	5329.2	5323.8	5348.1	5412.7	5613.0	6313.4	6788.6	6823.6	6505.7	5778.2
17.5°	5499.8	5495.3	5474.7	5474.7	5498.1	5576.2	5990.2	6706.0	6867.6	6720.3	5896.8
20°	5789.0	5768.3	5713.6	5663.3	5638.1	5680.3	5857.3	6515.6	6791.3	6908.0	5994.7
22.5°	6139.2	6123.1	6034.2	5926.5	5839.3	5838.4	5925.5	6349.5	6659.2	7085.0	6077.2
25°	6591.9	6565.8	6433.8	6261.4	6108.8	6050.3	6074.6	6341.4	6587.4	7277.2	6150.9
27.5°	7123.5	7076.0	6919.6	6671.0	6446.4	6328.8	6293.7	6487.8	6653.0	7515.1	6253.3
30°	7768.4	7713.6	7513.4	7189.1	6872.1	6679.1	6604.5	6747.3	6870.3	7805.2	6417.7
32.5°	8502.2	8423.1	8191.4	7834.0	7417.2	7122.7	7001.4	7090.4	7188.2	8154.6	6623.3
35°	9516.0	9421.8	9086.8	8593.7	8123.2	7718.1	7524.1	7588.8	7684.0	8675.4	6920.6
37.5°	10207.5	10165.4	9942.7	9479.2	8967.3	8501.2	8201.2	8238.9	8292.9	9326.5	7301.4
40°	10201.3	10218.4	10222.9	10227.4	9878.8	9432.5	9110.1	9070.6	9059.9	10041.4	7734.2
42.5°	9690.3	9760.3	9986.7	10445.6	10657.5	10452.7	10157.3	10043.2	9986.7	10883.8	8193.1
45°	8908.1	8945.8	9369.6	10265.9	11056.3	11463.1	11239.5	10880.2	10777.8	11658.0	8574.0
47.5°	8504.8	8546.1	8812.8	9789.9	11051.8	12279.4	12408.7	11724.4	11541.2	12331.5	8902.6
50°	7544.8	7631.0	7966.8	8962.0	10648.5	12654.8	13631.0	12730.2	12351.3	12987.1	9232.2
52.5°	5781.8	5914.7	6291.0	7600.4	9625.6	12469.0	14609.1	13949.9	13414.6	13666.0	9515.2
55°	3647.1	3745.8	4062.0	5367.8	7700.2	11501.6	14980.0	15269.2	14793.2	14309.0	9760.3
57.5°	1983.0	2027.0	2145.5	2963.7	5008.6	9363.4	14439.3	16019.9	15822.4	14855.1	9945.3
58°	1774.6	1804.3	1877.9	2568.5	4441.9	8778.8	14199.5	16022.6	15923.9	14935.1	9959.7
60°	1316.5	1301.3	1235.7	1465.7	2472.4	6064.8	12750.1	15381.4	15671.5	15033.0	9889.7
62.5°	1156.8	1119.9	986.1	970.8	1202.5	2793.9	9755.8	13175.7	13861.0	14474.3	9463.9
65°	1086.7	1047.2	874.7	819.1	867.6	1181.9	5746.8	9881.6	10741.0	12780.5	8375.5
67.5°	1034.6	983.4	803.7	727.4	731.0	781.3	2303.6	6223.6	7190.9	9703.7	6514.7
70°	984.3	928.6	743.6	655.6	634.9	617.9	916.1	3115.4	3992.9	6129.4	4153.6
72.5°	930.4	875.6	690.6	599.0	558.6	502.1	598.1	1274.4	1780.0	2899.9	1884.2
75°	852.3	802.9	637.6	548.7	491.2	415.8	451.7	665.4	798.4	1154.9	908.0
77.5°	756.2	715.8	578.4	507.4	435.6	337.7	347.6	461.7	511.9	661.0	539.7
80°	543.3	557.7	514.6	456.2	388.0	273.9	266.7	336.8	363.8	424.8	351.2
82.5°	381.7	389.7	425.6	372.7	320.6	215.5	196.7	237.1	253.3	279.3	189.5
85°	263.1	254.2	291.8	259.5	231.7	143.7	134.7	160.7	170.6	173.3	97.9
87.5°	158.0	158.0	168.9	139.2	124.8	74.6	72.7	91.6	97.9	93.4	53.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1	5066.1
2.5°	5079.6	5015.7	4880.2	4771.5	4634.1	4491.3	4411.4	4326.1	4267.6	4225.5	4292.8
5°	5118.1	4987.9	4707.7	4441.9	4148.3	3842.9	3611.2	3395.7	3245.6	3152.2	3240.3
7.5°	5179.2	4978.9	4532.6	4078.2	3551.0	3042.7	2588.3	2303.6	2137.5	2055.7	2106.9
10°	5249.3	4964.6	4327.0	3585.1	2830.7	2190.4	1850.9	1735.9	1698.3	1683.0	1690.2
12.5°	5307.7	4934.0	4074.6	2988.8	2125.8	1729.7	1631.8	1629.2	1637.2	1639.0	1641.7
15°	5348.9	4889.1	3700.1	2367.3	1700.0	1576.2	1570.7	1586.9	1602.1	1608.5	1612.1
17.5°	5376.8	4796.6	3277.1	1871.6	1523.2	1501.6	1514.2	1534.8	1551.0	1555.5	1559.1
20°	5374.1	4661.1	2773.2	1560.8	1427.0	1427.0	1448.6	1464.8	1465.7	1460.3	1462.9
22.5°	5346.2	4475.1	2284.8	1395.6	1341.7	1357.0	1378.5	1363.3	1300.4	1259.2	1261.8
25°	5299.6	4253.3	1866.2	1290.6	1262.7	1289.6	1283.4	1168.4	1078.6	1038.2	1038.2
27.5°	5258.3	3991.0	1544.7	1198.9	1183.7	1216.9	1105.5	1001.4	963.6	944.8	938.5
30°	5228.6	3708.2	1330.0	1110.9	1109.1	1084.8	959.1	930.4	924.1	908.9	903.5
32.5°	5235.8	3421.7	1192.7	1033.7	1039.9	928.6	889.0	895.4	890.0	873.8	866.6
35°	5295.1	3149.6	1102.8	963.6	944.8	838.8	847.8	859.5	857.6	835.2	828.1
37.5°	5401.1	2891.8	1043.6	905.3	824.4	793.9	808.2	826.2	821.7	806.5	801.1
40°	5512.4	2649.3	995.0	859.5	753.5	763.3	775.9	785.8	790.3	794.8	791.3
42.5°	5621.1	2396.1	935.8	812.7	723.8	734.6	740.0	749.9	774.2	791.3	790.3
45°	5685.8	2158.1	874.7	746.3	700.5	706.8	703.2	722.9	752.6	780.4	781.3
47.5°	5757.6	1973.1	826.2	685.3	678.0	682.5	671.8	691.5	718.4	752.6	756.2
50°	5844.7	1862.6	787.6	636.8	647.5	647.5	644.9	662.8	700.5	740.0	747.2
52.5°	5943.4	1841.1	755.2	601.7	616.9	616.1	618.8	645.7	687.0	725.7	731.9
55°	6063.8	1899.4	720.3	575.7	587.4	591.0	600.0	630.4	665.4	709.5	712.2
57.5°	6203.9	2018.0	692.4	555.1	560.4	572.0	586.5	614.3	652.0	700.5	703.2
58°	6227.3	2043.1	687.9	553.2	555.1	568.5	584.6	611.6	649.3	702.3	705.0
60°	6228.1	2126.6	678.0	545.1	534.4	556.8	574.8	601.7	644.9	708.6	714.8
62.5°	6007.3	2125.8	670.9	533.5	512.8	540.6	561.3	592.7	640.4	723.8	736.4
65°	5289.7	1931.7	636.8	515.5	495.7	526.3	549.6	586.5	652.9	790.3	798.4
67.5°	4137.4	1583.3	573.0	490.3	473.3	511.9	542.5	585.5	666.4	805.6	811.0
70°	2735.6	1184.6	502.9	461.7	449.9	494.8	546.1	616.1	651.1	773.2	758.9
72.5°	1419.9	831.7	446.3	425.6	423.0	479.6	598.1	612.4	635.9	727.4	709.5
75°	745.4	577.5	396.9	386.2	390.7	476.0	705.9	596.3	616.1	696.0	730.2
77.5°	456.2	466.1	354.8	350.3	359.3	465.2	705.0	575.7	587.4	640.4	678.0
80°	305.4	378.1	322.4	323.4	329.6	425.6	633.1	543.3	552.3	605.3	643.9
82.5°	193.1	223.6	292.8	308.0	299.9	351.2	538.0	494.8	507.4	692.4	731.9
85°	97.9	140.1	254.2	296.3	270.4	246.1	436.5	433.7	440.1	499.3	521.8
87.5°	44.9	77.2	198.5	258.6	203.9	153.5	317.0	321.5	346.7	354.8	354.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)