

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: P300374

Luminaire Tested: **GLNA-AF-04-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300374
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: GLNA-AF-04-LED-E1-AFL-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19184.1 lumens
Efficiency: N/A
Efficacy: 112.2 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): 171
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

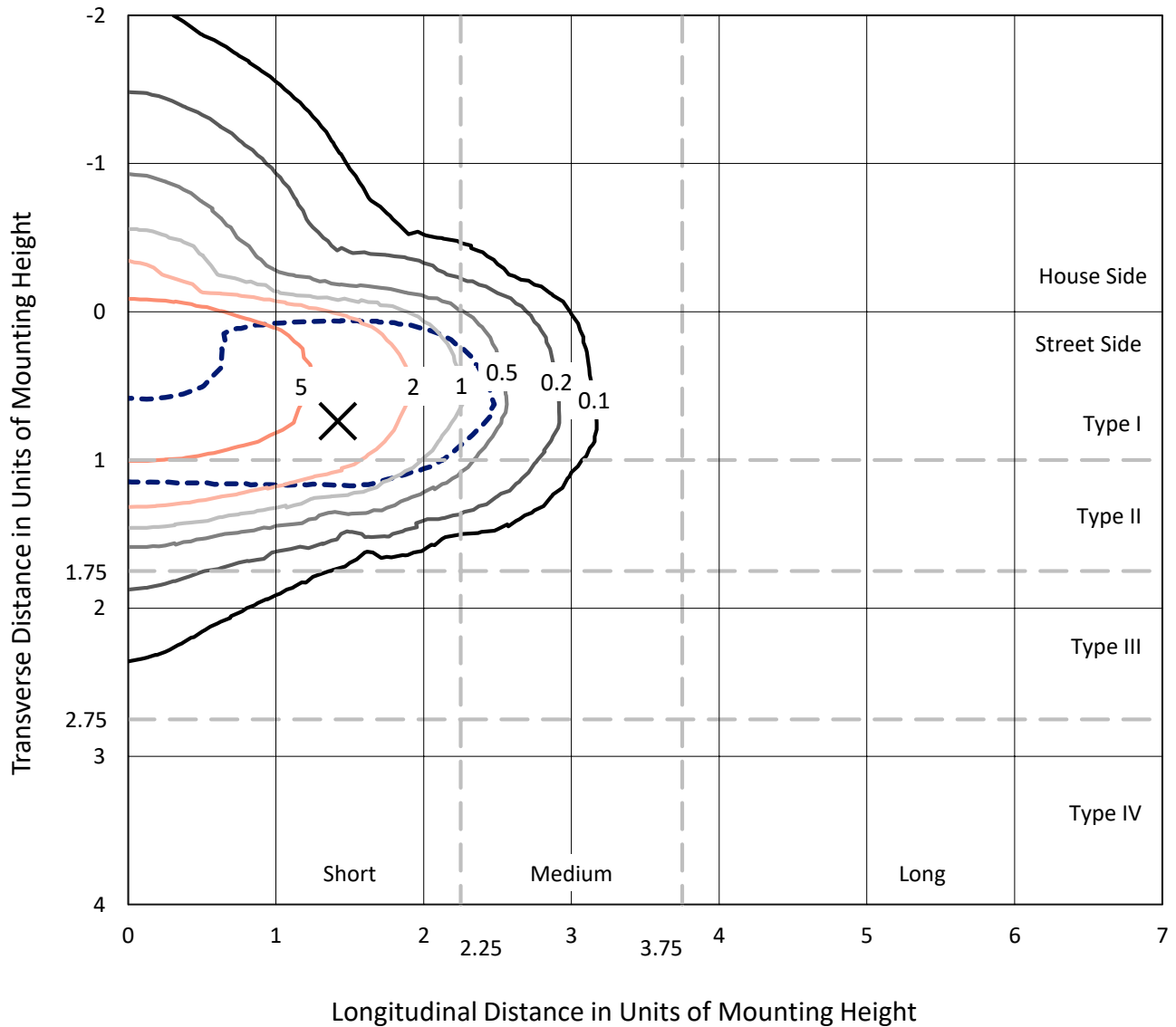


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Iso-Footcandle Lines of Horizontal Illumination

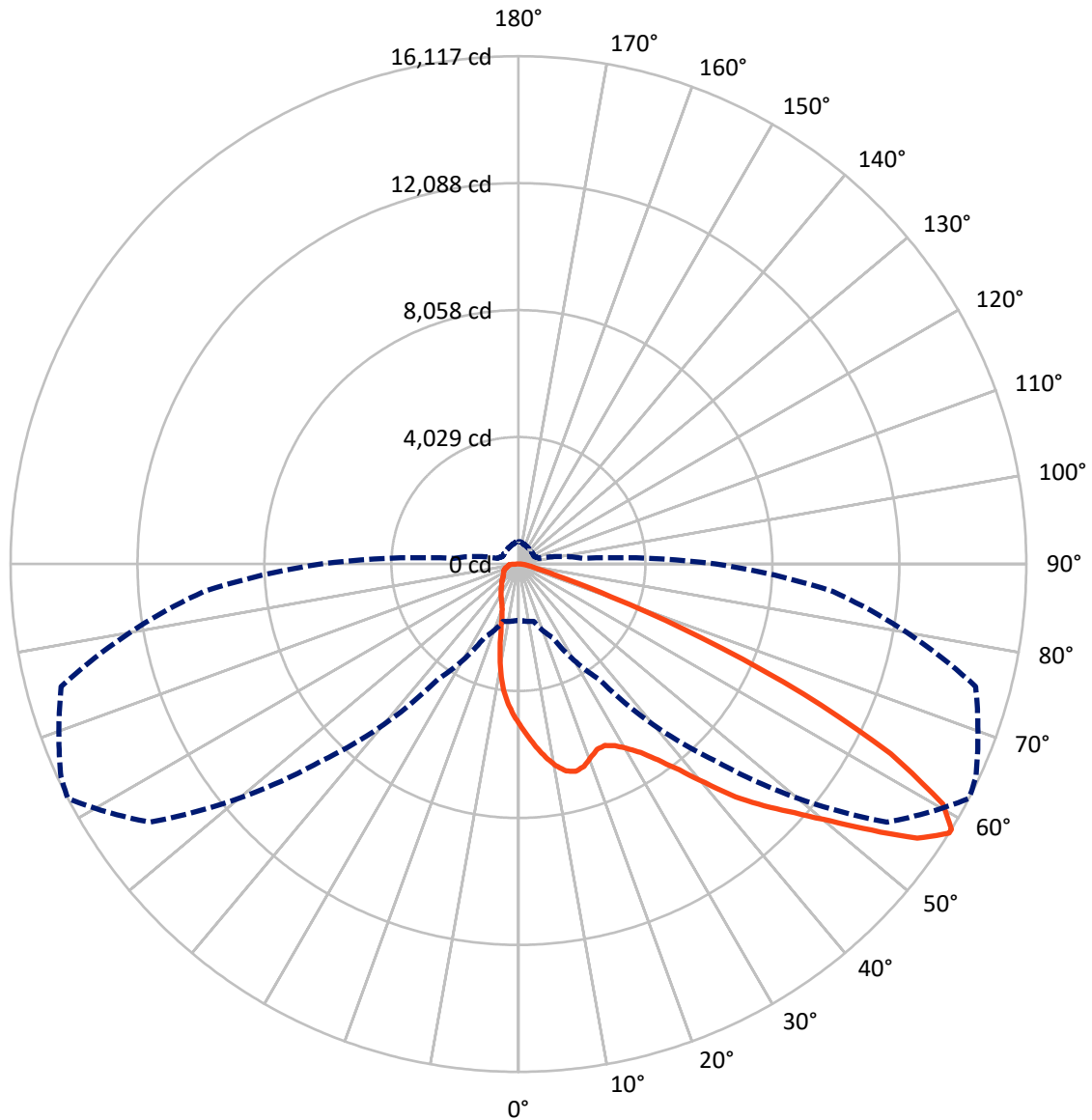
✕ Max cd
 - - - 1/2 Max cd



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	2925.6	0.0	2925.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16258.5	0.0	16258.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	19184.1	0.0	19184.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.8	2.4
10°-20°	1165.0	6.1
20°-30°	1883.2	9.8
30°-40°	2989.6	15.6
40°-50°	4374.4	22.8
50°-60°	4575.2	23.8
60°-70°	2703.1	14.1
70°-80°	761.5	4.0
80°-90°	276.5	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°	19184.1	100.0
0°-180°	19184.1	100.0

Coefficient of Utilization



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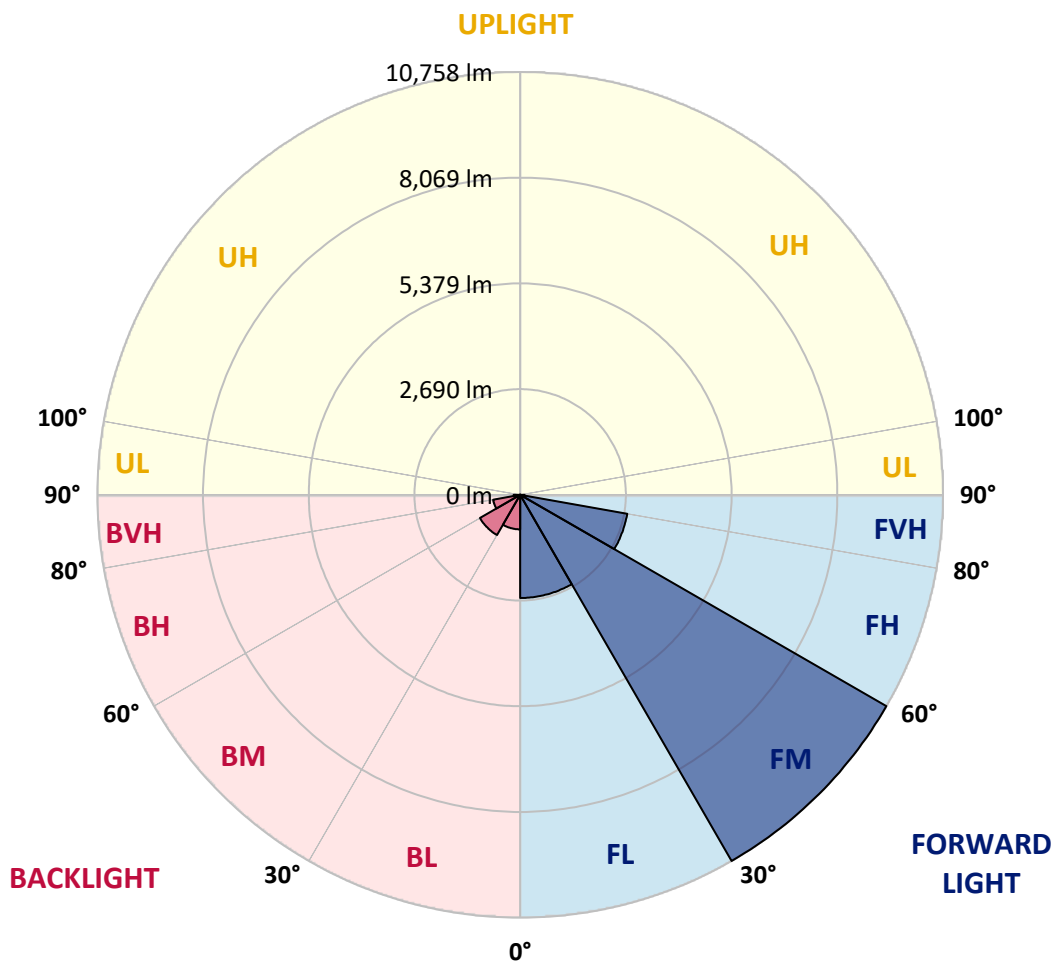
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2624.6	13.7			
FM	(30°-60°)	10758.4	56.1			
FH	(60°-80°)	2766.4	14.4			G2/5000
FVH	(80°-90°)	109.1	0.6			G2/225
BL	(0°-30°)	879.3	4.6	B2/1000		
BM	(30°-60°)	1180.9	6.2	B2/2500		
BH	(60°-80°)	698.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	167.4	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°	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9
2.5°	5823.1	5776.1	5746.3	5720.1	5685.8	5612.6	5514.1	5451.8	5420.2	5312.7	5185.3
5°	6394.0	6352.5	6321.7	6286.5	6225.1	6110.4	5951.4	5824.9	5762.6	5547.6	5292.8
7.5°	6260.3	6277.5	6330.8	6423.8	6503.3	6488.0	6346.1	6185.3	6103.1	5804.1	5417.5
10°	5454.5	5484.3	5576.5	5794.2	6146.5	6507.8	6618.0	6506.9	6423.8	6058.0	5545.7
12.5°	5292.8	5291.9	5299.1	5356.9	5566.5	6075.1	6627.1	6739.1	6689.4	6300.1	5676.7
15°	5358.8	5360.6	5355.1	5379.5	5444.6	5646.0	6350.6	6828.5	6863.8	6544.0	5812.2
17.5°	5532.2	5527.7	5506.9	5506.9	5530.4	5609.0	6025.4	6745.4	6908.0	6759.9	5931.5
20°	5823.1	5802.3	5747.2	5696.6	5671.3	5713.8	5891.7	6553.9	6831.2	6948.7	6030.0
22.5°	6175.4	6159.1	6069.7	5961.3	5873.7	5872.8	5960.4	6386.8	6698.4	7126.6	6113.1
25°	6630.7	6604.5	6471.7	6298.3	6144.7	6086.0	6110.4	6378.6	6626.2	7320.0	6187.1
27.5°	7165.5	7117.6	6960.4	6710.2	6484.3	6366.0	6330.8	6525.9	6692.1	7559.3	6290.1
30°	7814.1	7759.0	7557.5	7231.4	6912.5	6718.3	6643.3	6787.0	6910.7	7851.1	6455.4
32.5°	8552.1	8472.6	8239.6	7880.0	7460.9	7164.6	7042.6	7132.1	7230.5	8202.5	6662.3
35°	9572.0	9477.2	9140.2	8644.3	8170.9	7763.5	7568.4	7633.4	7729.2	8726.5	6961.3
37.5°	10267.6	10225.2	10001.1	9535.0	9020.1	8551.2	8249.5	8287.5	8341.7	9381.4	7344.3
40°	10261.3	10278.5	10283.0	10287.5	9937.0	9488.0	9163.7	9124.0	9113.1	10100.5	7779.8
42.5°	9747.3	9817.8	10045.4	10507.0	10720.2	10514.2	10217.0	10102.3	10045.4	10947.9	8241.4
45°	8960.5	8998.4	9424.8	10326.3	11121.3	11530.5	11305.6	10944.2	10841.3	11726.6	8624.4
47.5°	8554.9	8596.4	8864.7	9847.6	11116.8	12351.7	12481.8	11793.4	11609.1	12404.1	8955.0
50°	7589.2	7675.9	8013.7	9014.7	10711.2	12729.3	13711.3	12805.2	12424.0	13063.5	9286.6
52.5°	5815.9	5949.6	6328.1	7645.2	9682.2	12542.3	14695.0	14031.9	13493.5	13746.5	9571.1
55°	3668.6	3767.9	4085.9	5399.4	7745.4	11569.4	15068.1	15359.0	14880.2	14393.3	9817.8
57.5°	1994.6	2038.9	2158.1	2981.1	5038.1	9418.5	14524.3	16114.2	15915.5	14942.5	10003.8
58°	1785.0	1814.9	1888.9	2583.6	4468.0	8830.4	14283.1	16116.9	16017.5	15022.9	10018.3
60°	1324.3	1309.0	1243.0	1474.3	2487.0	6100.4	12825.1	15471.9	15763.7	15121.4	9947.8
62.5°	1163.5	1126.5	991.9	976.5	1209.6	2810.4	9813.2	13253.2	13942.5	14559.5	9519.6
65°	1093.1	1053.3	879.9	823.9	872.6	1188.8	5780.6	9939.7	10804.2	12855.8	8424.8
67.5°	1040.7	989.2	808.5	731.7	735.3	785.9	2317.1	6260.3	7233.2	9760.8	6553.0
70°	990.1	934.1	748.0	659.5	638.7	621.5	921.4	3133.8	4016.4	6165.5	4178.1
72.5°	935.9	880.8	694.7	602.5	561.9	505.0	601.6	1281.9	1790.5	2917.0	1895.3
75°	857.3	807.6	641.4	552.0	494.1	418.3	454.4	669.4	803.1	1161.7	913.3
77.5°	760.6	720.0	581.8	510.4	438.1	339.7	349.6	464.3	514.9	664.9	542.9
80°	546.5	561.0	517.6	458.9	390.3	275.5	268.3	338.8	365.9	427.3	353.2
82.5°	383.9	392.1	428.2	374.9	322.5	216.8	197.8	238.5	254.7	280.9	190.6
85°	264.7	255.7	293.6	261.1	233.1	144.5	135.5	161.7	171.6	174.3	98.5
87.5°	159.0	159.0	169.8	140.0	125.6	75.0	73.2	92.1	98.5	93.9	54.2
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°	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9	5095.9
2.5°	5109.4	5045.3	4908.9	4799.6	4661.4	4517.7	4437.3	4351.5	4292.8	4250.3	4318.1
5°	5148.3	5017.3	4735.4	4468.0	4172.6	3865.5	3632.4	3415.6	3264.8	3170.8	3259.3
7.5°	5209.7	5008.2	4559.3	4102.2	3571.9	3060.6	2603.5	2317.1	2150.0	2067.8	2119.3
10°	5280.2	4993.8	4352.4	3606.2	2847.4	2203.3	1861.8	1746.2	1708.3	1692.9	1700.1
12.5°	5338.9	4963.1	4098.6	3006.4	2138.3	1739.9	1641.4	1638.7	1646.8	1648.6	1651.3
15°	5380.4	4917.9	3721.9	2381.3	1710.1	1585.4	1580.0	1596.2	1611.6	1617.9	1621.5
17.5°	5408.4	4824.9	3296.4	1882.6	1532.1	1510.4	1523.1	1543.8	1560.1	1564.6	1568.2
20°	5405.7	4688.5	2789.6	1570.0	1435.4	1435.4	1457.1	1473.4	1474.3	1468.9	1471.6
22.5°	5377.7	4501.5	2298.2	1403.8	1349.6	1365.0	1386.7	1371.3	1308.1	1266.5	1269.2
25°	5330.7	4278.3	1877.2	1298.1	1270.1	1297.2	1290.9	1175.3	1084.9	1044.3	1044.3
27.5°	5289.2	4014.5	1553.8	1206.0	1190.6	1224.1	1112.0	1007.3	969.3	950.3	944.0
30°	5259.4	3730.0	1337.9	1117.5	1115.7	1091.3	964.8	935.9	929.6	914.2	908.8
32.5°	5266.6	3441.8	1199.7	1039.8	1046.1	934.1	894.3	900.7	895.2	879.0	871.7
35°	5326.2	3168.1	1109.3	969.3	950.3	843.7	852.8	864.5	862.7	840.1	832.9
37.5°	5432.8	2908.8	1049.7	910.6	829.3	798.6	813.0	831.1	826.6	811.2	805.8
40°	5544.8	2664.9	1000.9	864.5	757.9	767.9	780.5	790.4	795.0	799.5	795.9
42.5°	5654.2	2410.2	941.3	817.5	728.1	739.0	744.4	754.3	778.7	795.9	795.0
45°	5719.2	2170.8	879.9	750.7	704.6	710.9	707.3	727.2	757.0	785.0	785.9
47.5°	5791.5	1984.7	831.1	689.3	682.0	686.6	675.7	695.6	722.7	757.0	760.6
50°	5879.1	1873.6	792.2	640.5	651.3	651.3	648.6	666.7	704.6	744.4	751.6
52.5°	5978.5	1851.9	759.7	605.3	620.6	619.7	622.4	649.5	691.1	729.9	736.2
55°	6099.5	1910.6	724.5	579.1	590.8	594.4	603.4	634.2	669.4	713.7	716.4
57.5°	6240.4	2029.9	696.5	558.3	563.7	575.4	589.9	617.9	655.8	704.6	707.3
58°	6263.9	2055.2	692.0	556.5	558.3	571.8	588.1	615.2	653.1	706.4	709.1
60°	6264.8	2139.2	682.0	548.3	537.5	560.1	578.2	605.3	648.6	712.8	719.1
62.5°	6042.6	2138.3	674.8	536.6	515.8	543.8	564.6	596.2	644.1	728.1	740.8
65°	5320.8	1943.1	640.5	518.5	498.7	529.4	552.9	589.9	656.7	795.0	803.1
67.5°	4161.8	1592.6	576.3	493.2	476.1	514.9	545.6	589.0	670.3	810.3	815.7
70°	2751.6	1191.5	505.9	464.3	452.6	497.8	549.2	619.7	654.9	777.8	763.3
72.5°	1428.2	836.5	449.0	428.2	425.5	482.4	601.6	616.1	639.6	731.7	713.7
75°	749.8	580.9	399.3	388.4	393.0	478.8	710.0	599.8	619.7	700.1	734.4
77.5°	458.9	468.8	356.8	352.3	361.3	467.9	709.1	579.1	590.8	644.1	682.0
80°	307.1	380.3	324.3	325.2	331.5	428.2	636.9	546.5	555.6	608.9	647.7
82.5°	194.2	224.9	294.5	309.9	301.7	353.2	541.1	497.8	510.4	696.5	736.2
85°	98.5	140.9	255.7	298.1	271.9	247.5	439.0	436.3	442.6	502.3	524.9
87.5°	45.2	77.7	199.6	260.2	205.1	154.5	318.9	323.4	348.7	356.8	356.8
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)