

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: P193511

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193511  
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-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15214 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

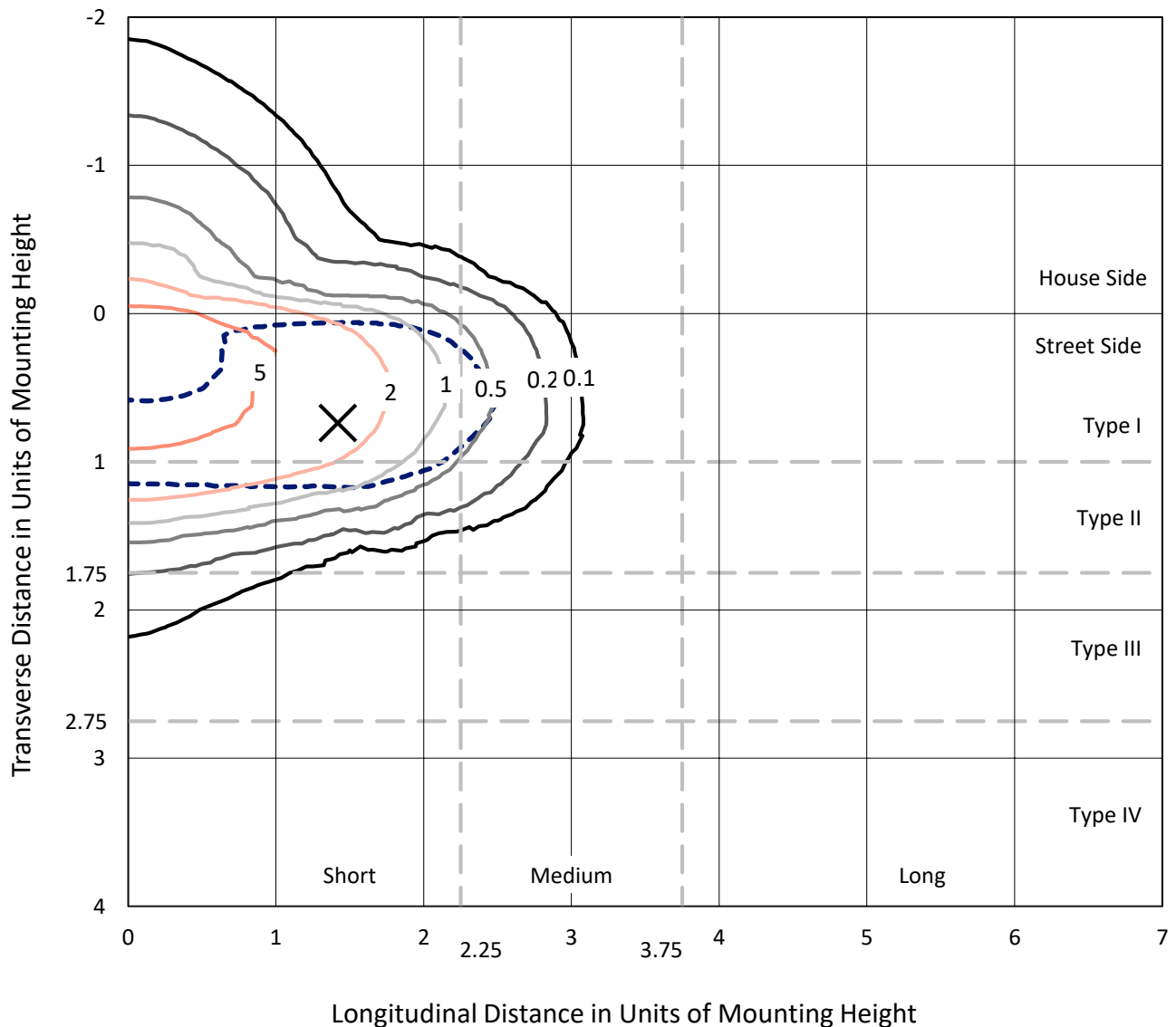
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

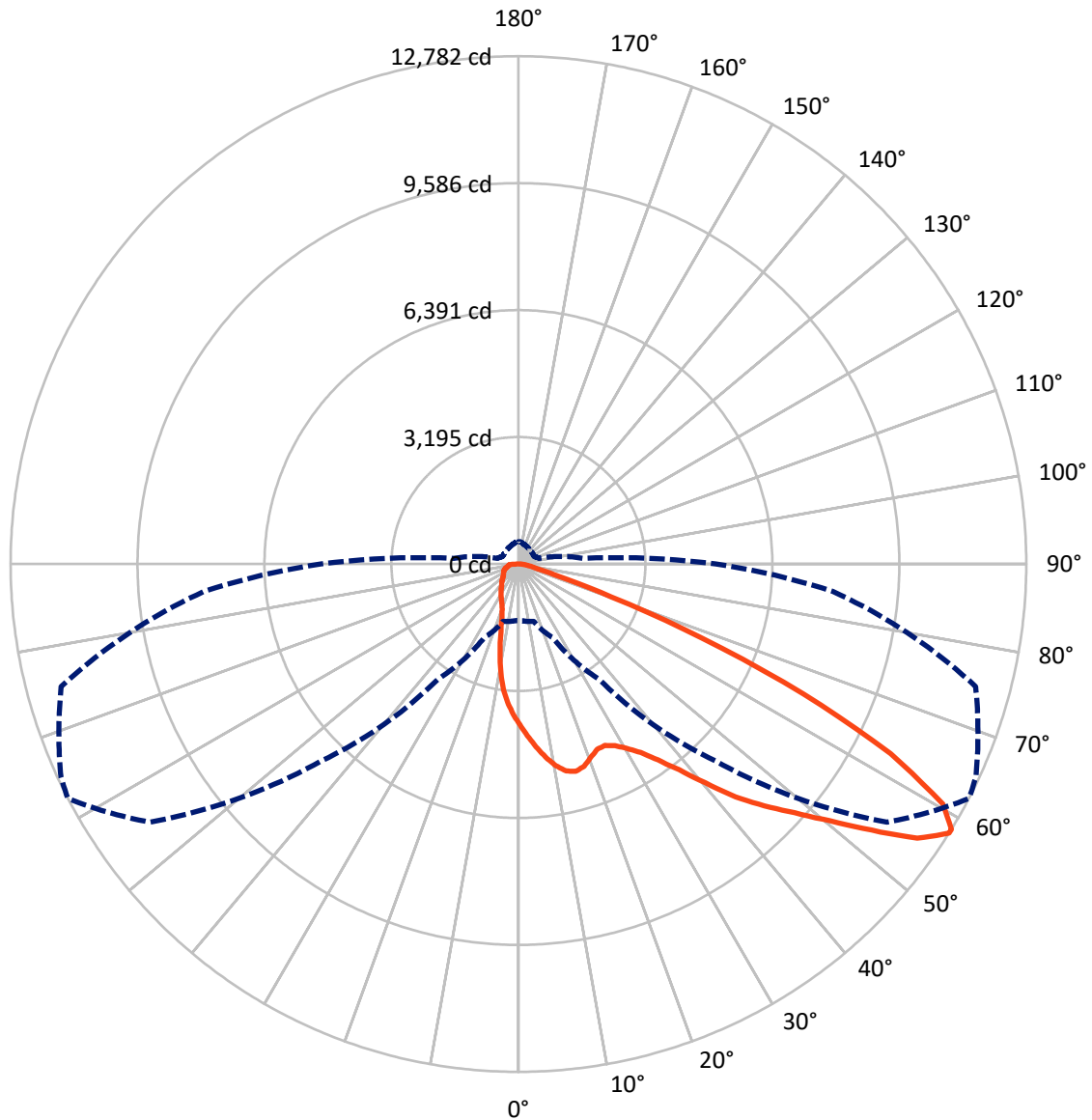
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	2320.2	0.0	2320.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	12893.8	0.0	12893.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	15214.0	0.0	15214.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.4	2.4
10°-20°	923.9	6.1
20°-30°	1493.5	9.8
30°-40°	2370.9	15.6
40°-50°	3469.1	22.8
50°-60°	3628.4	23.8
60°-70°	2143.7	14.1
70°-80°	603.9	4.0
80°-90°	219.2	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°	15214.0	100.0
0°-180°	15214.0	100.0



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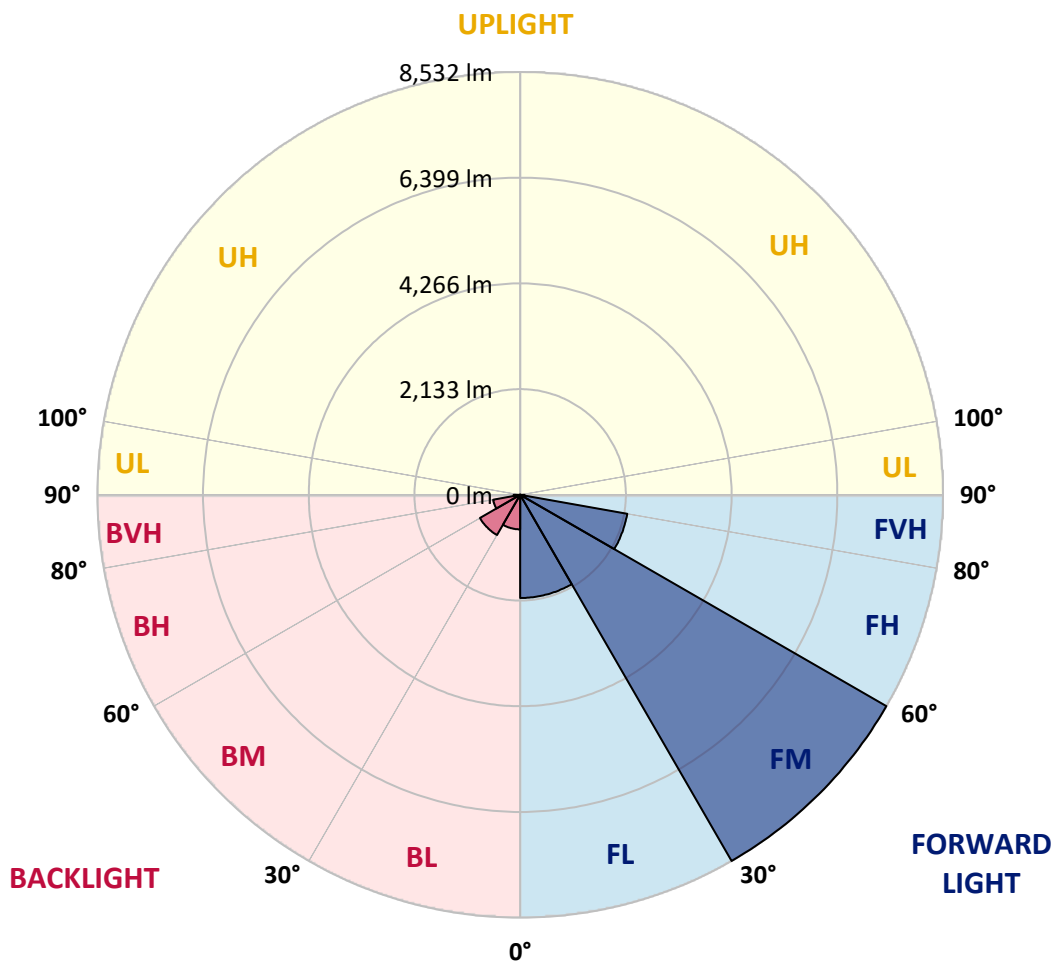
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2081.5	13.7			
FM	(30°-60°)	8531.9	56.1			
FH	(60°-80°)	2193.9	14.4			G2/5000
FVH	(80°-90°)	86.5	0.6			G1/100
BL	(0°-30°)	697.3	4.6	B2/1000		
BM	(30°-60°)	936.5	6.2	B1/1000		
BH	(60°-80°)	553.6	3.6	B2/1000		G2/1000
BVH	(80°-90°)	132.7	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°	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3
2.5°	4618.0	4580.7	4557.1	4536.3	4509.1	4451.1	4373.0	4323.6	4298.5	4213.2	4112.2
5°	5070.8	5037.8	5013.5	4985.5	4936.8	4845.8	4719.7	4619.4	4570.0	4399.5	4197.5
7.5°	4964.7	4978.4	5020.6	5094.4	5157.5	5145.3	5032.8	4905.3	4840.1	4603.0	4296.3
10°	4325.7	4349.3	4422.4	4595.1	4874.5	5161.0	5248.4	5160.3	5094.4	4804.3	4398.1
12.5°	4197.5	4196.8	4202.5	4248.3	4414.5	4817.9	5255.6	5344.4	5305.0	4996.3	4501.9
15°	4249.8	4251.2	4246.9	4266.2	4317.8	4477.6	5036.4	5415.4	5443.3	5189.7	4609.4
17.5°	4387.3	4383.7	4367.3	4367.3	4385.9	4448.2	4778.5	5349.5	5478.4	5360.9	4704.0
20°	4618.0	4601.5	4557.8	4517.7	4497.6	4531.3	4672.4	5197.6	5417.5	5510.7	4782.1
22.5°	4897.4	4884.5	4813.6	4727.6	4658.1	4657.4	4726.9	5065.0	5312.2	5651.8	4848.0
25°	5258.5	5237.7	5132.4	4994.8	4873.0	4826.5	4845.8	5058.6	5254.9	5805.1	4906.7
27.5°	5682.6	5644.6	5520.0	5321.5	5142.4	5048.6	5020.6	5175.4	5307.2	5994.9	4988.4
30°	6197.0	6153.3	5993.5	5734.9	5482.0	5328.0	5268.5	5382.4	5480.6	6226.4	5119.5
32.5°	6782.3	6719.2	6534.4	6249.3	5916.9	5681.9	5585.2	5656.1	5734.2	6505.0	5283.6
35°	7591.1	7515.9	7248.7	6855.4	6480.0	6156.9	6002.1	6053.7	6129.6	6920.6	5520.7
37.5°	8142.8	8109.1	7931.4	7561.7	7153.4	6781.6	6542.3	6572.4	6615.4	7440.0	5824.4
40°	8137.7	8151.4	8154.9	8158.5	7880.5	7524.5	7267.3	7235.8	7227.2	8010.2	6169.8
42.5°	7730.1	7786.0	7966.5	8332.6	8501.7	8338.3	8102.6	8011.7	7966.5	8682.2	6535.8
45°	7106.1	7136.2	7474.3	8189.3	8819.8	9144.3	8965.9	8679.4	8597.7	9299.8	6839.6
47.5°	6784.4	6817.4	7030.2	7809.6	8816.2	9795.5	9898.7	9352.8	9206.6	9837.1	7101.8
50°	6018.6	6087.4	6355.3	7149.1	8494.5	10095.0	10873.7	10155.2	9852.8	10360.1	7364.7
52.5°	4612.3	4718.3	5018.5	6063.0	7678.5	9946.7	11653.9	11128.1	10701.1	10901.7	7590.4
55°	2909.4	2988.2	3240.3	4282.0	6142.5	9175.1	11949.8	12180.5	11800.8	11414.6	7786.0
57.5°	1581.8	1616.9	1711.5	2364.2	3995.4	7469.3	11518.5	12779.4	12621.8	11850.2	7933.6
58°	1415.6	1439.3	1498.0	2048.9	3543.4	7002.9	11327.2	12781.5	12702.7	11914.0	7945.0
60°	1050.3	1038.1	985.8	1169.2	1972.3	4837.9	10170.9	12270.0	12501.4	11992.0	7889.1
62.5°	922.7	893.4	786.6	774.4	959.3	2228.8	7782.4	10510.5	11057.1	11546.4	7549.6
65°	866.9	835.3	697.8	653.4	692.1	942.8	4584.3	7882.7	8568.3	10195.3	6681.3
67.5°	825.3	784.5	641.2	580.3	583.2	623.3	1837.6	4964.7	5736.3	7740.8	5196.9
70°	785.2	740.8	593.2	523.0	506.5	492.9	730.7	2485.2	3185.2	4889.5	3313.4
72.5°	742.2	698.5	550.9	477.8	445.6	400.5	477.1	1016.6	1419.9	2313.3	1503.0
75°	679.9	640.5	508.7	437.7	391.9	331.7	360.4	530.9	636.9	921.3	724.3
77.5°	603.2	571.0	461.4	404.8	347.5	269.4	277.3	368.2	408.4	527.3	430.6
80°	433.4	444.9	410.5	363.9	309.5	218.5	212.8	268.7	290.1	338.9	280.1
82.5°	304.5	310.9	339.6	297.3	255.8	171.9	156.9	189.1	202.0	222.8	151.2
85°	209.9	202.7	232.8	207.0	184.8	114.6	107.5	128.2	136.1	138.3	78.1
87.5°	126.1	126.1	134.7	111.0	99.6	59.5	58.0	73.1	78.1	74.5	43.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3
2.5°	4052.0	4001.2	3893.0	3806.3	3696.7	3582.8	3519.0	3451.0	3404.4	3370.7	3424.5
5°	4082.8	3979.0	3755.4	3543.4	3309.1	3065.5	2880.7	2708.8	2589.1	2514.6	2584.8
7.5°	4131.6	3971.8	3615.7	3253.2	2832.7	2427.2	2064.7	1837.6	1705.1	1639.9	1680.7
10°	4187.4	3960.3	3451.7	2859.9	2258.1	1747.3	1476.5	1384.8	1354.7	1342.6	1348.3
12.5°	4234.0	3936.0	3250.4	2384.2	1695.8	1379.8	1301.7	1299.6	1306.0	1307.5	1309.6
15°	4267.0	3900.2	2951.6	1888.5	1356.2	1257.3	1253.0	1265.9	1278.1	1283.1	1286.0
17.5°	4289.2	3826.4	2614.2	1493.0	1215.0	1197.8	1207.9	1224.4	1237.2	1240.8	1243.7
20°	4287.0	3718.2	2212.3	1245.1	1138.4	1138.4	1155.6	1168.5	1169.2	1164.9	1167.0
22.5°	4264.8	3569.9	1822.6	1113.3	1070.3	1082.5	1099.7	1087.5	1037.4	1004.4	1006.6
25°	4227.6	3392.9	1488.7	1029.5	1007.3	1028.8	1023.8	932.1	860.4	828.2	828.2
27.5°	4194.6	3183.7	1232.2	956.4	944.2	970.7	881.9	798.8	768.7	753.7	748.7
30°	4171.0	2958.1	1061.0	886.2	884.8	865.4	765.1	742.2	737.2	725.0	720.7
32.5°	4176.7	2729.5	951.4	824.6	829.6	740.8	709.2	714.3	710.0	697.1	691.3
35°	4224.0	2512.5	879.8	768.7	753.7	669.1	676.3	685.6	684.2	666.3	660.5
37.5°	4308.5	2306.9	832.5	722.1	657.7	633.3	644.8	659.1	655.5	643.3	639.0
40°	4397.3	2113.4	793.8	685.6	601.1	609.0	619.0	626.9	630.4	634.0	631.2
42.5°	4484.0	1911.4	746.5	648.4	577.4	586.0	590.3	598.2	617.5	631.2	630.4
45°	4535.6	1721.5	697.8	595.3	558.8	563.8	561.0	576.7	600.4	622.6	623.3
47.5°	4592.9	1574.0	659.1	546.6	540.9	544.5	535.9	551.6	573.1	600.4	603.2
50°	4662.4	1485.8	628.3	507.9	516.5	516.5	514.4	528.7	558.8	590.3	596.1
52.5°	4741.2	1468.6	602.5	480.0	492.2	491.5	493.6	515.1	548.1	578.9	583.9
55°	4837.2	1515.2	574.6	459.2	468.5	471.4	478.6	502.9	530.9	566.0	568.1
57.5°	4949.0	1609.8	552.4	442.7	447.0	456.4	467.8	490.0	520.1	558.8	561.0
58°	4967.6	1629.8	548.8	441.3	442.7	453.5	466.4	487.9	518.0	560.2	562.4
60°	4968.3	1696.5	540.9	434.9	426.3	444.2	458.5	480.0	514.4	565.3	570.3
62.5°	4792.1	1695.8	535.2	425.5	409.1	431.3	447.8	472.8	510.8	577.4	587.5
65°	4219.7	1541.0	507.9	411.2	395.5	419.8	438.4	467.8	520.8	630.4	636.9
67.5°	3300.5	1263.0	457.1	391.2	377.5	408.4	432.7	467.1	531.6	642.6	646.9
70°	2182.2	944.9	401.2	368.2	358.9	394.7	435.6	491.5	519.4	616.8	605.4
72.5°	1132.6	663.4	356.1	339.6	337.4	382.6	477.1	488.6	507.2	580.3	566.0
75°	594.6	460.7	316.7	308.1	311.6	379.7	563.1	475.7	491.5	555.2	582.4
77.5°	363.9	371.8	283.0	279.4	286.6	371.1	562.4	459.2	468.5	510.8	540.9
80°	243.6	301.6	257.2	257.9	262.9	339.6	505.1	433.4	440.6	482.9	513.7
82.5°	154.0	178.4	233.6	245.7	239.3	280.1	429.1	394.7	404.8	552.4	583.9
85°	78.1	111.8	202.7	236.4	215.6	196.3	348.2	346.0	351.0	398.3	416.2
87.5°	35.8	61.6	158.3	206.3	162.6	122.5	252.9	256.5	276.5	283.0	283.0
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)