

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: P193502

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193502
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-04-LED-E1-AFL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16241 lumens
Efficiency: N/A
Efficacy: 95.0 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

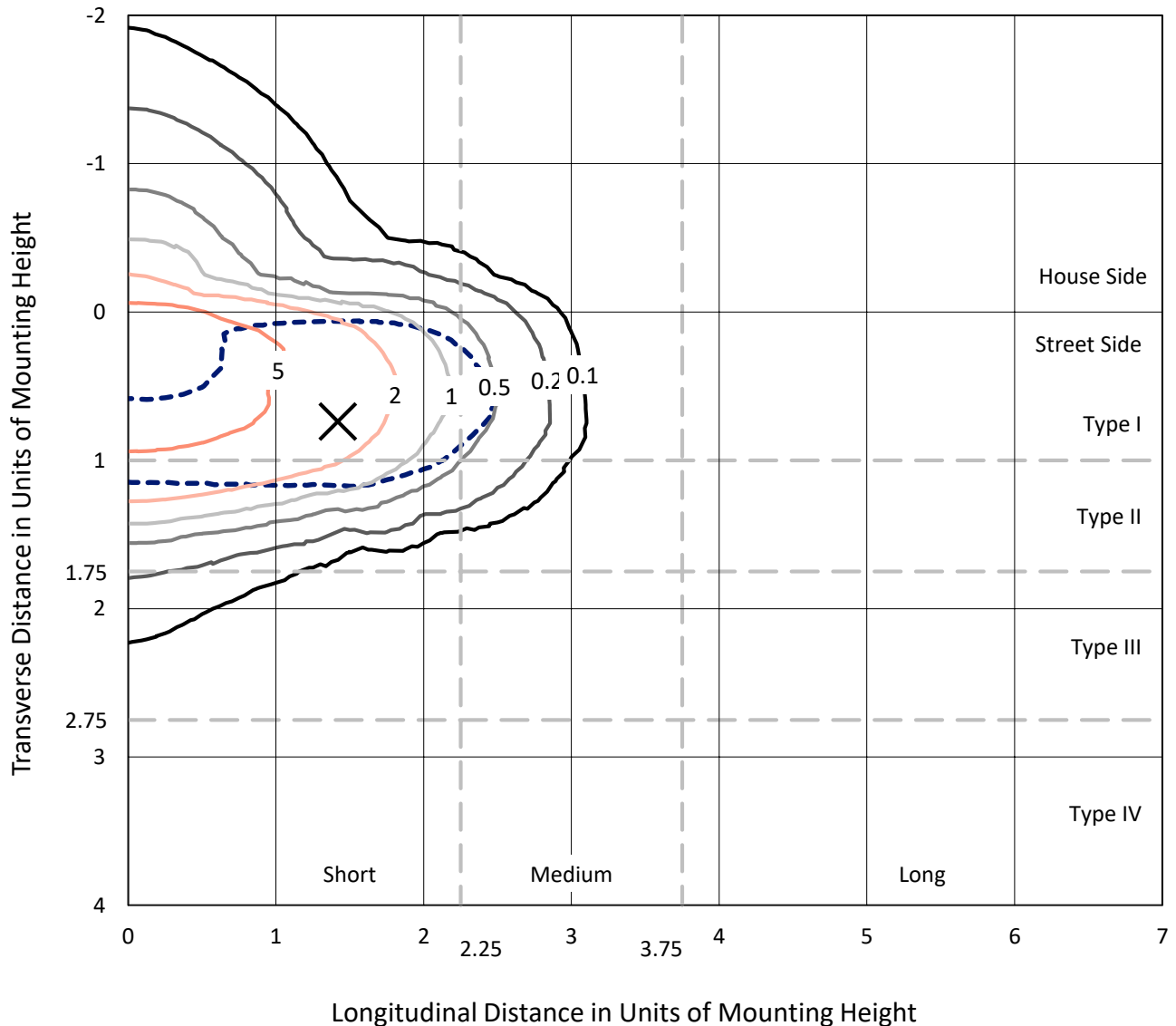
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

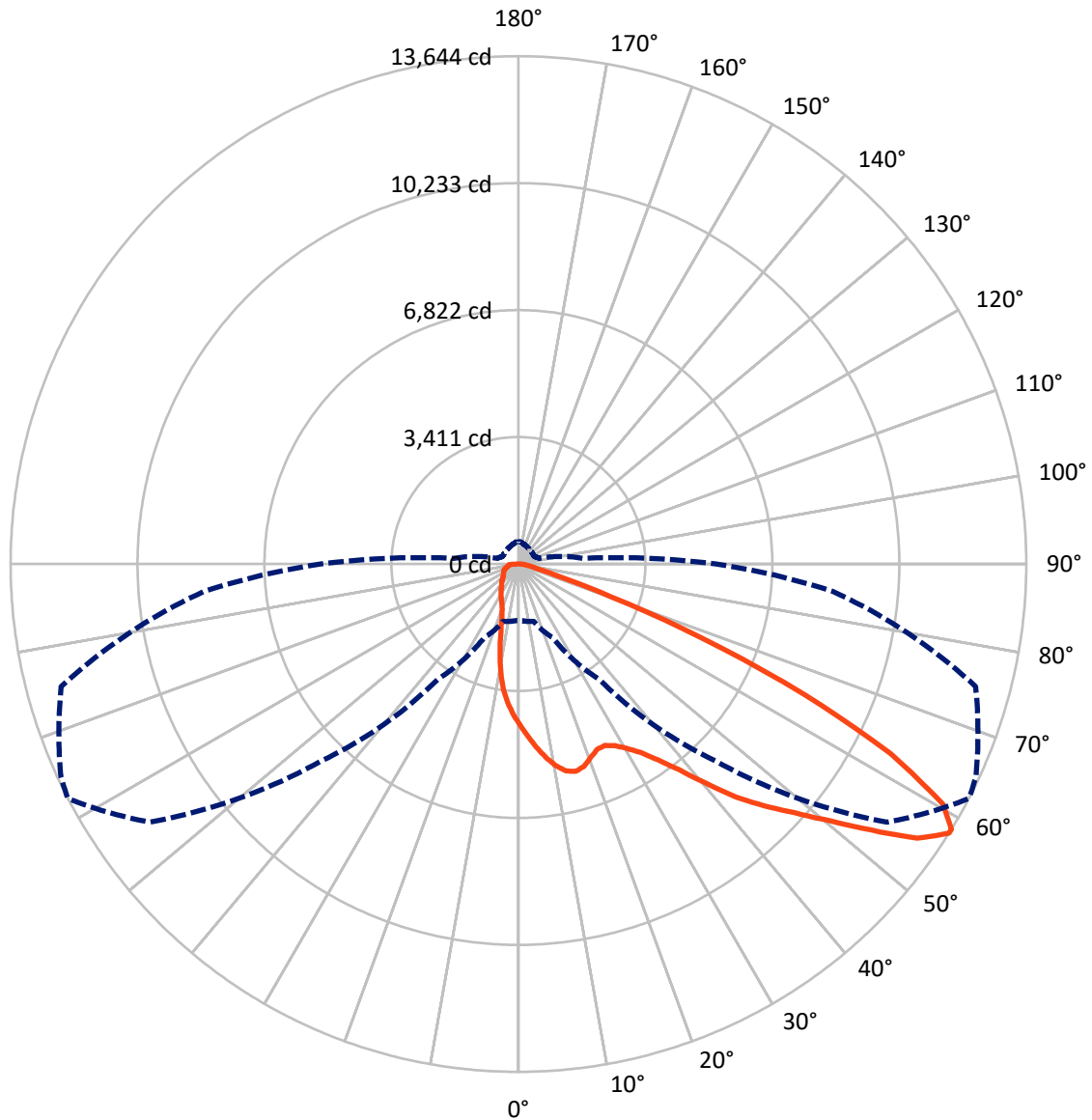
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	2476.8	0.0	2476.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13764.2	0.0	13764.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	16241.0	0.0	16241.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.8	2.4
10°-20°	986.2	6.1
20°-30°	1594.3	9.8
30°-40°	2530.9	15.6
40°-50°	3703.3	22.8
50°-60°	3873.3	23.8
60°-70°	2288.4	14.1
70°-80°	644.6	4.0
80°-90°	234.0	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°	16241.0	100.0
0°-180°	16241.0	100.0



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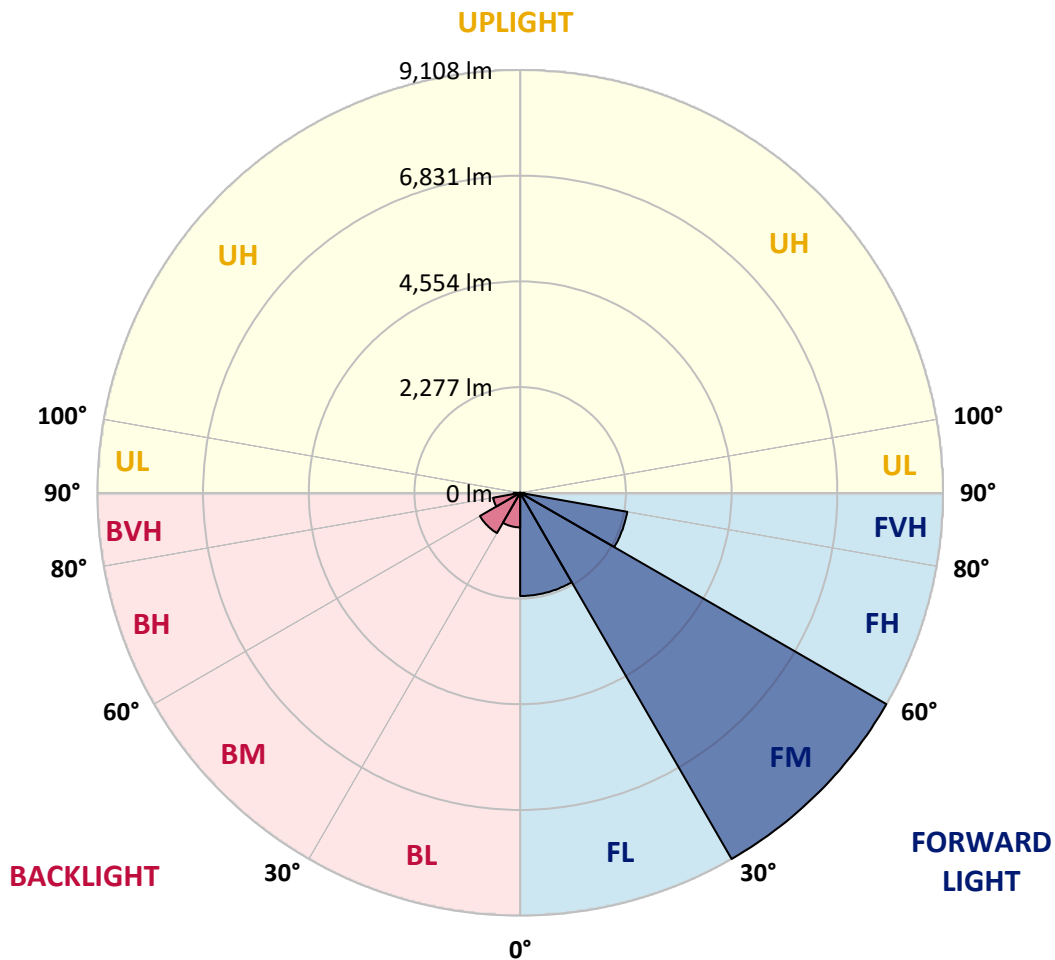
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.0	13.7			
FM (30°-60°)	9107.9	56.1			
FH (60°-80°)	2342.0	14.4			G2/5000
FVH (80°-90°)	92.3	0.6			G1/100
BL (0°-30°)	744.4	4.6	B2/1000		
BM (30°-60°)	999.7	6.2	B1/1000		
BH (60°-80°)	591.0	3.6	B2/1000		G2/1000
BVH (80°-90°)	141.7	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°	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1
2.5°	4929.7	4890.0	4864.7	4842.5	4813.5	4751.5	4668.2	4615.4	4588.6	4497.6	4389.8
5°	5413.1	5377.9	5351.9	5322.1	5270.1	5172.9	5038.3	4931.3	4878.5	4696.5	4480.8
7.5°	5299.9	5314.4	5359.5	5438.3	5505.6	5492.6	5372.5	5236.4	5166.8	4913.7	4586.4
10°	4617.7	4642.9	4721.0	4905.3	5203.5	5509.4	5602.7	5508.7	5438.3	5128.6	4694.9
12.5°	4480.8	4480.0	4486.2	4535.1	4712.5	5143.1	5610.4	5705.2	5663.2	5333.5	4805.8
15°	4536.6	4538.2	4533.6	4554.2	4609.3	4779.8	5376.4	5780.9	5810.8	5540.0	4920.6
17.5°	4683.5	4679.7	4662.1	4662.1	4681.9	4748.5	5101.0	5710.6	5848.2	5722.8	5021.5
20°	4929.7	4912.1	4865.5	4822.7	4801.3	4837.2	4987.9	5548.4	5783.2	5882.6	5104.9
22.5°	5228.0	5214.2	5138.5	5046.7	4972.6	4971.8	5046.0	5407.0	5670.8	6033.3	5175.2
25°	5613.4	5591.3	5478.8	5332.0	5202.0	5152.3	5172.9	5400.1	5609.6	6197.0	5237.9
27.5°	6066.2	6025.7	5892.6	5680.7	5489.5	5389.4	5359.5	5524.7	5665.4	6399.6	5325.1
30°	6615.3	6568.6	6398.1	6122.0	5852.1	5687.6	5624.1	5745.7	5850.5	6646.7	5465.1
32.5°	7240.1	7172.8	6975.5	6671.1	6316.3	6065.4	5962.2	6037.9	6121.3	6944.1	5640.2
35°	8103.5	8023.2	7738.0	7318.1	6917.4	6572.5	6407.3	6462.3	6543.4	7387.7	5893.3
37.5°	8692.4	8656.5	8466.8	8072.2	7636.3	7239.4	6983.9	7016.0	7061.9	7942.2	6217.6
40°	8687.1	8701.6	8705.4	8709.2	8412.5	8032.4	7757.9	7724.2	7715.0	8550.9	6586.2
42.5°	8251.9	8311.6	8504.3	8895.1	9075.6	8901.2	8649.6	8552.5	8504.3	9268.3	6977.0
45°	7585.8	7617.9	7978.9	8742.1	9415.1	9761.6	9571.1	9265.2	9178.1	9927.5	7301.3
47.5°	7242.4	7277.6	7504.7	8336.8	9411.3	10456.8	10566.9	9984.1	9828.1	10501.1	7581.2
50°	6424.9	6498.3	6784.3	7631.7	9067.9	10776.4	11607.7	10840.7	10517.9	11059.4	7861.9
52.5°	4923.6	5036.8	5357.2	6472.3	8196.8	10618.1	12440.6	11879.2	11423.4	11637.6	8102.8
55°	3105.7	3189.9	3459.1	4571.1	6557.2	9794.5	12756.4	13002.7	12597.4	12185.1	8311.6
57.5°	1688.6	1726.1	1827.0	2523.8	4265.1	7973.5	12296.0	13642.0	13473.8	12650.1	8469.1
58°	1511.2	1536.4	1599.1	2187.3	3782.6	7475.7	12091.8	13644.3	13560.2	12718.2	8481.3
60°	1121.2	1108.2	1052.3	1248.1	2105.4	5164.5	10857.5	13098.3	13345.3	12801.6	8421.7
62.5°	985.0	953.7	839.7	826.7	1024.0	2379.2	8307.7	11220.0	11803.5	12325.9	8059.2
65°	925.4	891.7	744.9	697.5	738.8	1006.4	4893.8	8414.8	9146.7	10883.5	7132.3
67.5°	881.0	837.4	684.5	619.5	622.5	665.4	1961.6	5299.9	6123.5	8263.4	5547.7
70°	838.2	790.8	633.2	558.3	540.7	526.2	780.1	2653.0	3400.2	5219.6	3537.1
72.5°	792.3	745.7	588.1	510.1	475.7	427.5	509.3	1085.2	1515.8	2469.5	1604.5
75°	725.8	683.7	543.0	467.3	418.3	354.1	384.7	566.7	679.9	983.5	773.2
77.5°	643.9	609.5	492.5	432.1	370.9	287.6	296.0	393.1	435.9	562.9	459.6
80°	462.7	474.9	438.2	388.5	330.4	233.3	227.1	286.8	309.7	361.7	299.0
82.5°	325.0	331.9	362.5	317.4	273.0	183.5	167.5	201.9	215.7	237.8	161.4
85°	224.1	216.4	248.6	221.0	197.3	122.4	114.7	136.9	145.3	147.6	83.4
87.5°	134.6	134.6	143.8	118.5	106.3	63.5	61.9	78.0	83.4	79.5	45.9
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°	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1
2.5°	4325.6	4271.3	4155.8	4063.2	3946.2	3824.6	3756.6	3683.9	3634.2	3598.3	3655.6
5°	4358.4	4247.6	4008.9	3782.6	3532.5	3272.5	3075.2	2891.6	2763.9	2684.4	2759.3
7.5°	4410.5	4239.9	3859.8	3472.8	3023.9	2591.1	2204.1	1961.6	1820.2	1750.6	1794.2
10°	4470.1	4227.7	3684.7	3053.0	2410.6	1865.3	1576.2	1478.3	1446.2	1433.2	1439.3
12.5°	4519.8	4201.7	3469.8	2545.2	1810.2	1473.0	1389.6	1387.3	1394.2	1395.7	1398.0
15°	4555.0	4163.4	3150.9	2015.9	1447.7	1342.2	1337.6	1351.4	1364.4	1369.7	1372.8
17.5°	4578.7	4084.7	2790.7	1593.8	1297.1	1278.7	1289.4	1307.0	1320.8	1324.6	1327.6
20°	4576.4	3969.2	2361.6	1329.2	1215.2	1215.2	1233.6	1247.3	1248.1	1243.5	1245.8
22.5°	4552.7	3810.9	1945.6	1188.5	1142.6	1155.6	1173.9	1160.9	1107.4	1072.2	1074.5
25°	4512.9	3622.0	1589.2	1099.0	1075.3	1098.2	1092.9	995.0	918.5	884.1	884.1
27.5°	4477.8	3398.7	1315.4	1021.0	1008.0	1036.3	941.4	852.7	820.6	804.5	799.2
30°	4452.5	3157.8	1132.6	946.0	944.5	923.8	816.8	792.3	787.0	774.0	769.4
32.5°	4458.6	2913.8	1015.6	880.3	885.6	790.8	757.1	762.5	757.9	744.1	738.0
35°	4509.1	2682.1	939.1	820.6	804.5	714.3	721.9	731.9	730.4	711.2	705.1
37.5°	4599.4	2462.6	888.7	770.9	702.1	676.1	688.3	703.6	699.8	686.8	682.2
40°	4694.2	2256.1	847.4	731.9	641.6	650.1	660.8	669.2	673.0	676.8	673.8
42.5°	4786.7	2040.4	796.9	692.1	616.4	625.6	630.2	638.6	659.2	673.8	673.0
45°	4841.8	1837.8	744.9	635.5	596.5	601.9	598.8	615.6	640.9	664.6	665.4
47.5°	4903.0	1680.2	703.6	583.5	577.4	581.2	572.1	588.9	611.8	640.9	643.9
50°	4977.2	1586.1	670.7	542.2	551.4	551.4	549.1	564.4	596.5	630.2	636.3
52.5°	5061.3	1567.8	643.2	512.4	525.4	524.6	526.9	549.9	585.1	617.9	623.3
55°	5163.8	1617.5	613.3	490.2	500.2	503.2	510.9	536.9	566.7	604.2	606.5
57.5°	5283.1	1718.4	589.6	472.6	477.2	487.2	499.4	523.1	555.2	596.5	598.8
58°	5302.9	1739.9	585.8	471.1	472.6	484.1	497.9	520.8	552.9	598.1	600.3
60°	5303.7	1811.0	577.4	464.2	455.0	474.2	489.5	512.4	549.1	603.4	608.8
62.5°	5115.6	1810.2	571.3	454.3	436.7	460.4	478.0	504.8	545.3	616.4	627.1
65°	4504.5	1645.0	542.2	439.0	422.2	448.2	468.0	499.4	556.0	673.0	679.9
67.5°	3523.3	1348.3	487.9	417.6	403.0	435.9	461.9	498.6	567.5	686.0	690.6
70°	2329.5	1008.7	428.3	393.1	383.2	421.4	465.0	524.6	554.5	658.5	646.2
72.5°	1209.1	708.2	380.1	362.5	360.2	408.4	509.3	521.6	541.5	619.5	604.2
75°	634.8	491.7	338.0	328.9	332.7	405.3	601.1	507.8	524.6	592.7	621.8
77.5°	388.5	396.9	302.1	298.3	305.9	396.2	600.3	490.2	500.2	545.3	577.4
80°	260.0	322.0	274.6	275.3	280.7	362.5	539.2	462.7	470.3	515.5	548.3
82.5°	164.4	190.4	249.3	262.3	255.4	299.0	458.1	421.4	432.1	589.6	623.3
85°	83.4	119.3	216.4	252.4	230.2	209.5	371.7	369.4	374.7	425.2	444.3
87.5°	38.2	65.8	169.0	220.3	173.6	130.8	270.0	273.8	295.2	302.1	302.1
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)