

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: P191752

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191752
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16230 lumens
Efficiency: N/A
Efficacy: 125.8 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): 129
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

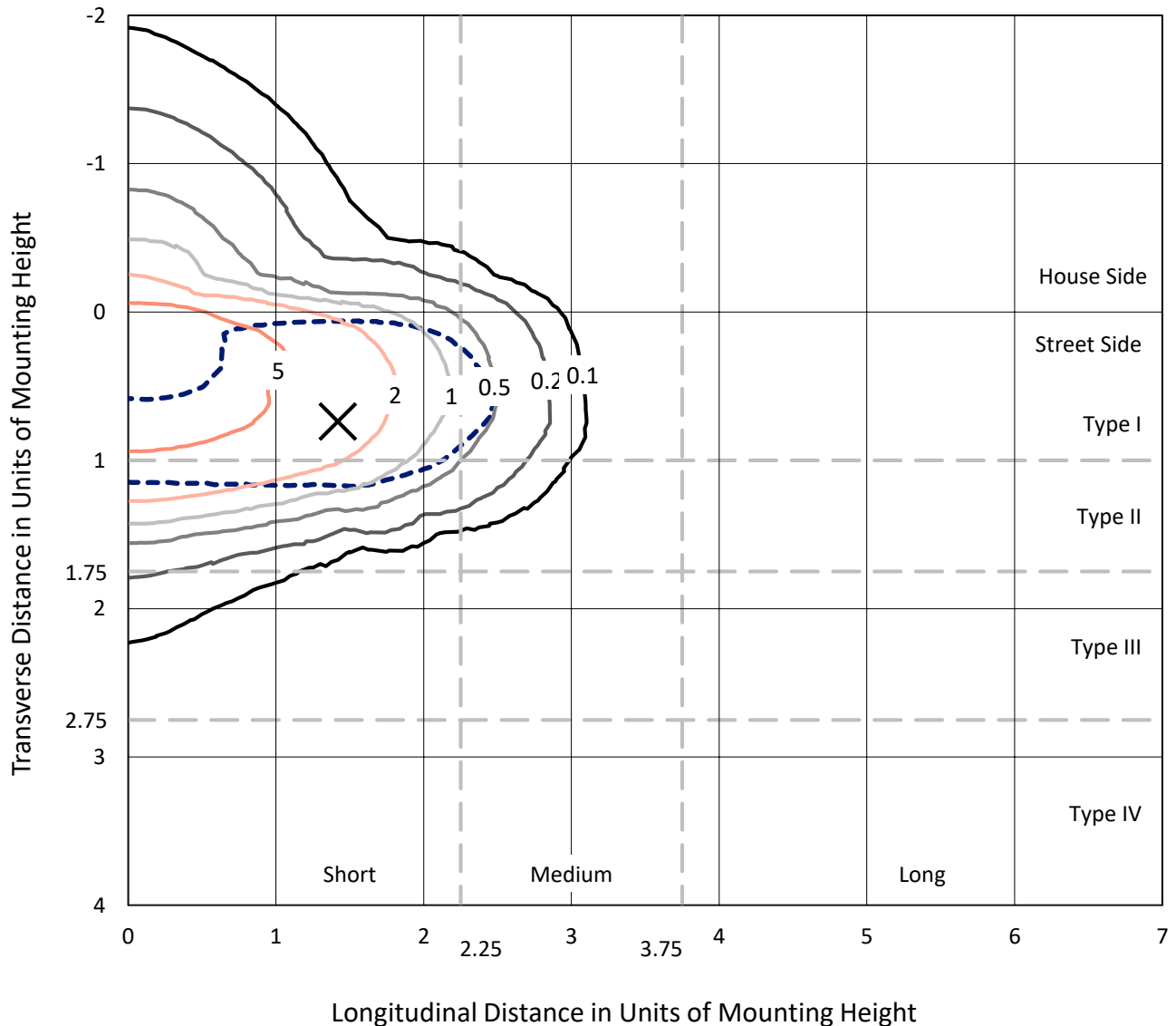


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Iso-Footcandle Lines of Horizontal Illumination

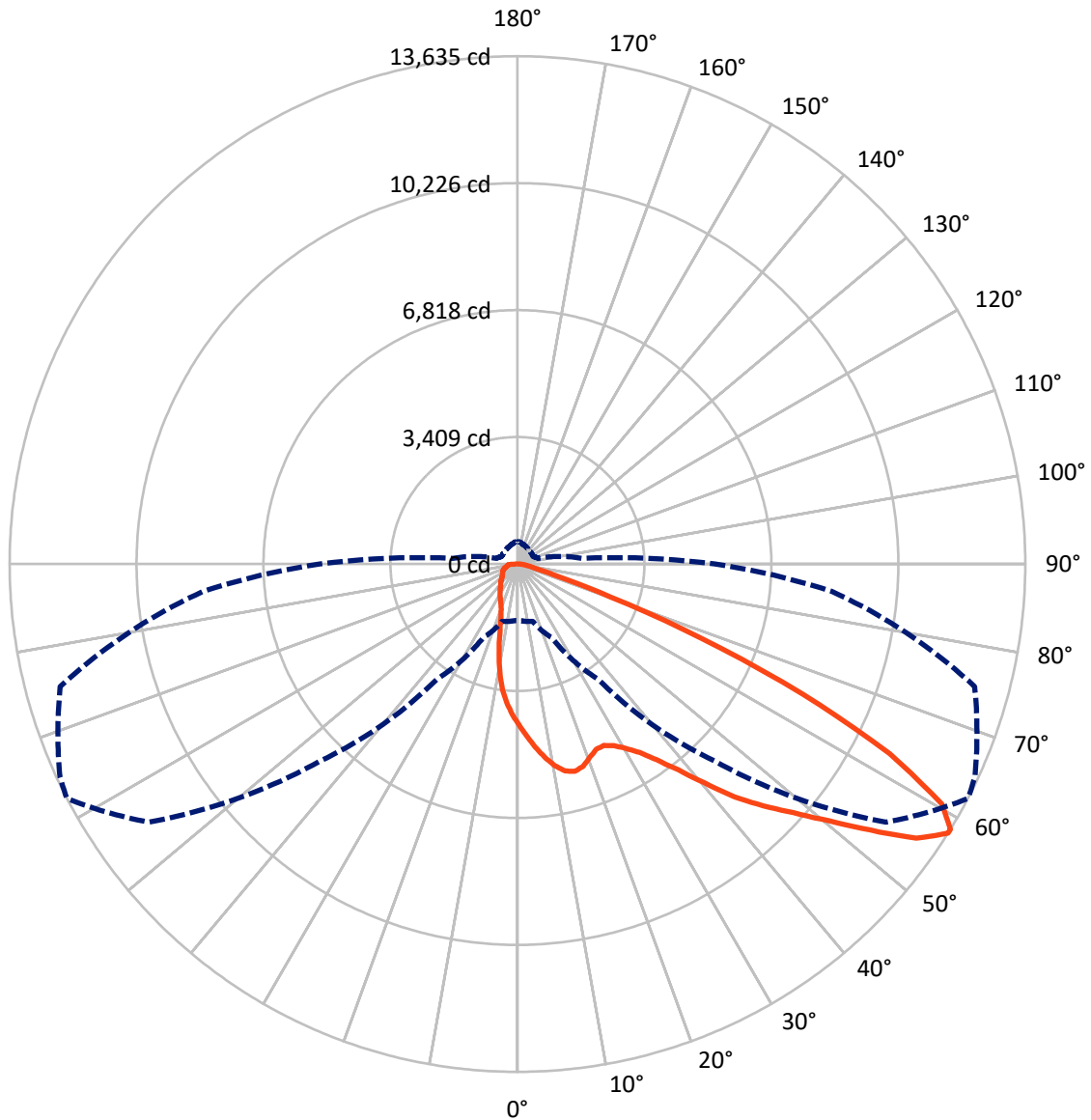
✕ Max cd
 - - - 1/2 Max cd



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	2475.1	0.0	2475.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13754.9	0.0	13754.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	16230.0	0.0	16230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.6	2.4
10°-20°	985.6	6.1
20°-30°	1593.2	9.8
30°-40°	2529.2	15.6
40°-50°	3700.8	22.8
50°-60°	3870.7	23.8
60°-70°	2286.8	14.1
70°-80°	644.2	4.0
80°-90°	233.9	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°	16230.0	100.0
0°-180°	16230.0	100.0

Coefficient of Utilization



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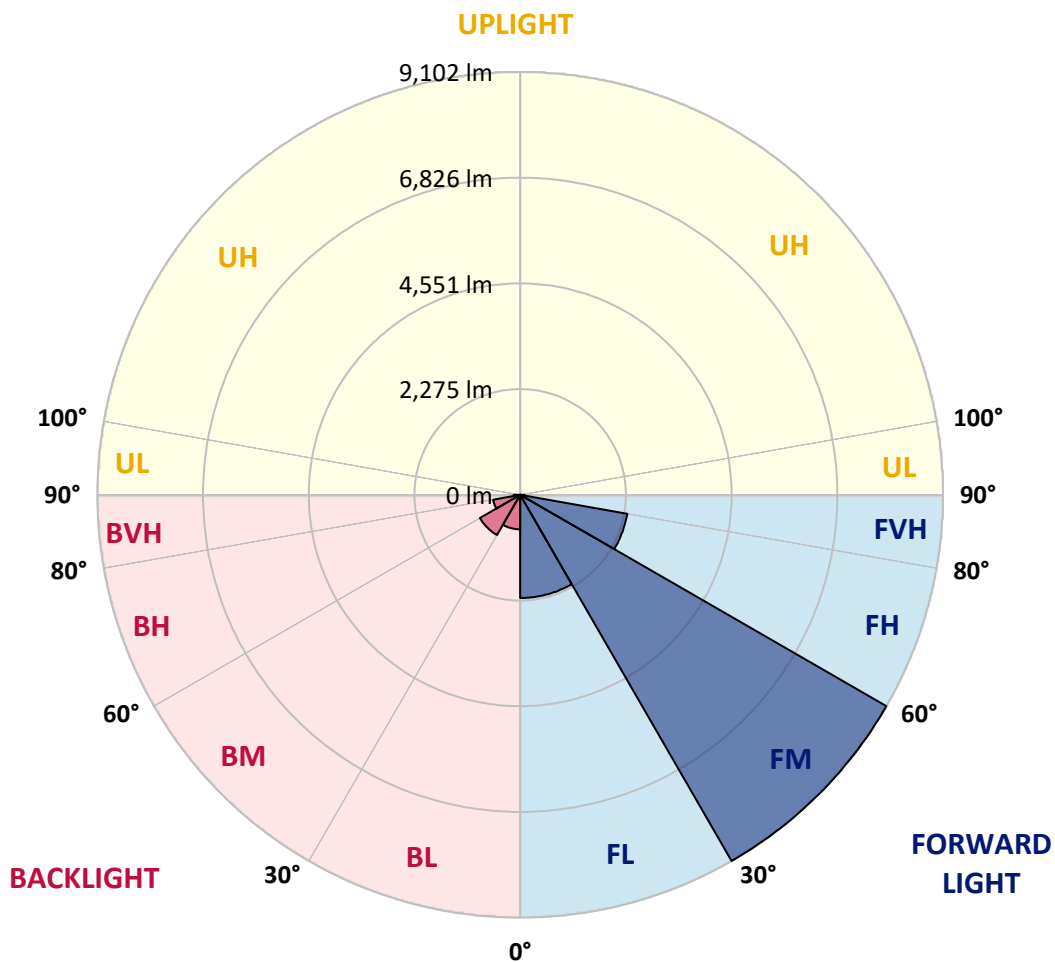
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.5	13.7			
FM (30°-60°)	9101.7	56.1			
FH (60°-80°)	2340.4	14.4			G2/5000
FVH (80°-90°)	92.3	0.6			G1/100
BL (0°-30°)	743.9	4.6	B2/1000		
BM (30°-60°)	999.0	6.2	B1/1000		
BH (60°-80°)	590.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	141.6	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°	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2
2.5°	4926.4	4886.7	4861.4	4839.3	4810.2	4748.3	4665.0	4612.3	4585.5	4494.6	4386.8
5°	5409.4	5374.2	5348.3	5318.5	5266.5	5169.4	5034.9	4927.9	4875.2	4693.3	4477.8
7.5°	5296.3	5310.8	5355.9	5434.6	5501.9	5488.9	5368.9	5232.9	5163.3	4910.3	4583.2
10°	4614.6	4639.8	4717.8	4901.9	5200.0	5505.7	5598.9	5504.9	5434.6	5125.1	4691.8
12.5°	4477.8	4477.0	4483.1	4532.0	4709.3	5139.6	5606.6	5701.4	5659.3	5329.9	4802.6
15°	4533.6	4535.1	4530.5	4551.1	4606.2	4776.6	5372.7	5777.0	5806.8	5536.3	4917.2
17.5°	4680.3	4676.5	4658.9	4658.9	4678.8	4745.3	5097.6	5706.7	5844.3	5718.9	5018.1
20°	4926.4	4908.8	4862.2	4819.4	4798.0	4833.9	4984.5	5544.7	5779.3	5878.7	5101.4
22.5°	5224.5	5210.7	5135.0	5043.3	4969.2	4968.4	5042.6	5403.3	5667.0	6029.2	5171.7
25°	5609.6	5587.5	5475.1	5328.4	5198.5	5148.8	5169.4	5396.4	5605.8	6192.8	5234.4
27.5°	6062.1	6021.6	5888.6	5676.9	5485.8	5385.7	5355.9	5521.0	5661.6	6395.3	5321.5
30°	6610.8	6564.2	6393.8	6117.9	5848.1	5683.8	5620.3	5741.9	5846.6	6642.2	5461.4
32.5°	7235.2	7168.0	6970.8	6666.6	6312.0	6061.3	5958.1	6033.8	6117.1	6939.4	5636.4
35°	8098.1	8017.8	7732.7	7313.2	6912.7	6568.0	6402.9	6458.0	6539.0	7382.7	5889.4
37.5°	8686.5	8650.6	8461.1	8066.7	7631.1	7234.4	6979.2	7011.3	7057.1	7936.8	6213.4
40°	8681.2	8695.7	8699.5	8703.3	8406.8	8027.0	7752.6	7719.0	7709.8	8545.1	6581.8
42.5°	8246.3	8305.9	8498.5	8889.1	9069.4	8895.2	8643.7	8546.7	8498.5	9262.0	6972.3
45°	7580.7	7612.8	7973.5	8736.2	9408.8	9755.0	9564.7	9259.0	9171.8	9920.8	7296.4
47.5°	7237.5	7272.7	7499.6	8331.2	9404.9	10449.7	10559.7	9977.4	9821.5	10494.0	7576.1
50°	6420.5	6493.9	6779.7	7626.5	9061.8	10769.1	11599.9	10833.3	10510.8	11051.9	7856.6
52.5°	4920.3	5033.4	5353.6	6467.9	8191.3	10610.9	12432.2	11871.2	11415.7	11629.7	8097.3
55°	3103.6	3187.7	3456.7	4568.0	6552.7	9787.8	12747.8	12993.9	12588.8	12176.9	8305.9
57.5°	1687.5	1724.9	1825.8	2522.0	4262.3	7968.1	12287.7	13632.8	13464.7	12641.6	8463.4
58°	1510.2	1535.4	1598.1	2185.8	3780.0	7470.6	12083.7	13635.1	13551.0	12709.6	8475.6
60°	1120.4	1107.4	1051.6	1247.3	2104.0	5161.0	10850.1	13089.4	13336.3	12792.9	8416.0
62.5°	984.4	953.0	839.2	826.2	1023.3	2377.6	8302.1	11212.4	11795.5	12317.5	8053.7
65°	924.7	891.1	744.4	697.0	738.3	1005.8	4890.5	8409.1	9140.5	10876.1	7127.5
67.5°	880.4	836.9	684.0	619.0	622.1	664.9	1960.3	5296.3	6119.4	8257.8	5543.9
70°	837.6	790.2	632.8	557.9	540.3	525.8	779.5	2651.2	3397.9	5216.0	3534.7
72.5°	791.8	745.1	587.7	509.8	475.4	427.2	509.0	1084.5	1514.8	2467.8	1603.4
75°	725.3	683.2	542.6	467.0	418.0	353.9	384.4	566.3	679.4	982.8	772.7
77.5°	643.5	609.1	492.2	431.8	370.7	287.4	295.8	392.8	435.6	562.5	459.3
80°	462.4	474.6	437.9	388.2	330.2	233.1	227.0	286.6	309.5	361.5	298.8
82.5°	324.8	331.7	362.3	317.2	272.8	183.4	167.4	201.8	215.5	237.7	161.3
85°	223.9	216.3	248.4	220.9	197.2	122.3	114.6	136.8	145.2	147.5	83.3
87.5°	134.5	134.5	143.7	118.5	106.2	63.4	61.9	78.0	83.3	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°	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2	4311.2
2.5°	4322.6	4268.4	4153.0	4060.5	3943.6	3822.0	3754.0	3681.4	3631.7	3595.8	3653.1
5°	4355.5	4244.7	4006.2	3780.0	3530.1	3270.3	3073.1	2889.7	2762.0	2682.5	2757.4
7.5°	4407.5	4237.0	3857.2	3470.5	3021.9	2589.3	2202.6	1960.3	1818.9	1749.4	1792.9
10°	4467.1	4224.8	3682.2	3050.9	2408.9	1864.0	1575.1	1477.3	1445.2	1432.2	1438.3
12.5°	4516.8	4198.8	3467.4	2543.4	1809.0	1472.0	1388.7	1386.4	1393.2	1394.8	1397.1
15°	4551.9	4160.6	3148.7	2014.6	1446.7	1341.3	1336.7	1350.4	1363.4	1368.8	1371.8
17.5°	4575.6	4081.9	2788.8	1592.7	1296.2	1277.8	1288.5	1306.1	1319.9	1323.7	1326.7
20°	4573.3	3966.5	2360.0	1328.3	1214.4	1214.4	1232.7	1246.5	1247.3	1242.7	1245.0
22.5°	4549.6	3808.3	1944.3	1187.7	1141.8	1154.8	1173.1	1160.1	1106.6	1071.5	1073.8
25°	4509.9	3619.5	1588.1	1098.2	1074.5	1097.5	1092.1	994.3	917.9	883.5	883.5
27.5°	4474.7	3396.4	1314.5	1020.3	1007.3	1035.6	940.8	852.1	820.0	804.0	798.6
30°	4449.5	3155.6	1131.9	945.4	943.9	923.2	816.2	791.8	786.4	773.4	768.8
32.5°	4455.6	2911.8	1014.9	879.7	885.0	790.2	756.6	762.0	757.4	743.6	737.5
35°	4506.1	2680.2	938.5	820.0	804.0	713.8	721.5	731.4	729.9	710.8	704.6
37.5°	4596.2	2460.9	888.1	770.4	701.6	675.6	687.8	703.1	699.3	686.3	681.7
40°	4691.0	2254.6	846.8	731.4	641.2	649.6	660.3	668.7	672.5	676.4	673.3
42.5°	4783.5	2039.0	796.4	691.7	616.0	625.2	629.7	638.2	658.8	673.3	672.5
45°	4838.5	1836.5	744.4	635.1	596.1	601.5	598.4	615.2	640.4	664.1	664.9
47.5°	4899.6	1679.1	703.1	583.1	577.0	580.8	571.7	588.5	611.4	640.4	643.5
50°	4973.8	1585.1	670.3	541.9	551.0	551.0	548.7	564.0	596.1	629.7	635.9
52.5°	5057.8	1566.7	642.7	512.1	525.0	524.3	526.6	549.5	584.7	617.5	622.9
55°	5160.3	1616.4	612.9	489.9	499.8	502.9	510.5	536.5	566.3	603.8	606.1
57.5°	5279.5	1717.3	589.2	472.3	476.9	486.8	499.1	522.8	554.8	596.1	598.4
58°	5299.4	1738.7	585.4	470.8	472.3	483.8	497.5	520.5	552.6	597.6	599.9
60°	5300.1	1809.8	577.0	463.9	454.7	473.8	489.1	512.1	548.7	603.0	608.3
62.5°	5112.1	1809.0	570.9	454.0	436.4	460.1	477.7	504.4	544.9	616.0	626.7
65°	4501.5	1643.9	541.9	438.7	421.9	447.9	467.7	499.1	555.6	672.5	679.4
67.5°	3520.9	1347.4	487.6	417.3	402.8	435.6	461.6	498.3	567.1	685.5	690.1
70°	2327.9	1008.1	428.0	392.8	382.9	421.1	464.7	524.3	554.1	658.0	645.8
72.5°	1208.3	707.7	379.8	362.3	360.0	408.1	509.0	521.2	541.1	619.0	603.8
75°	634.3	491.4	337.8	328.6	332.5	405.1	600.7	507.5	524.3	592.3	621.3
77.5°	388.2	396.6	301.9	298.1	305.7	395.9	599.9	489.9	499.8	544.9	577.0
80°	259.8	321.8	274.4	275.1	280.5	362.3	538.8	462.4	470.0	515.1	548.0
82.5°	164.3	190.3	249.1	262.1	255.3	298.8	457.8	421.1	431.8	589.2	622.9
85°	83.3	119.2	216.3	252.2	230.0	209.4	371.4	369.1	374.5	424.9	444.0
87.5°	38.2	65.7	168.9	220.1	173.5	130.7	269.8	273.6	295.0	301.9	301.9
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)