

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: P269133

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269133
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16198.4 lumens
Efficiency: N/A
Efficacy: 97.6 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

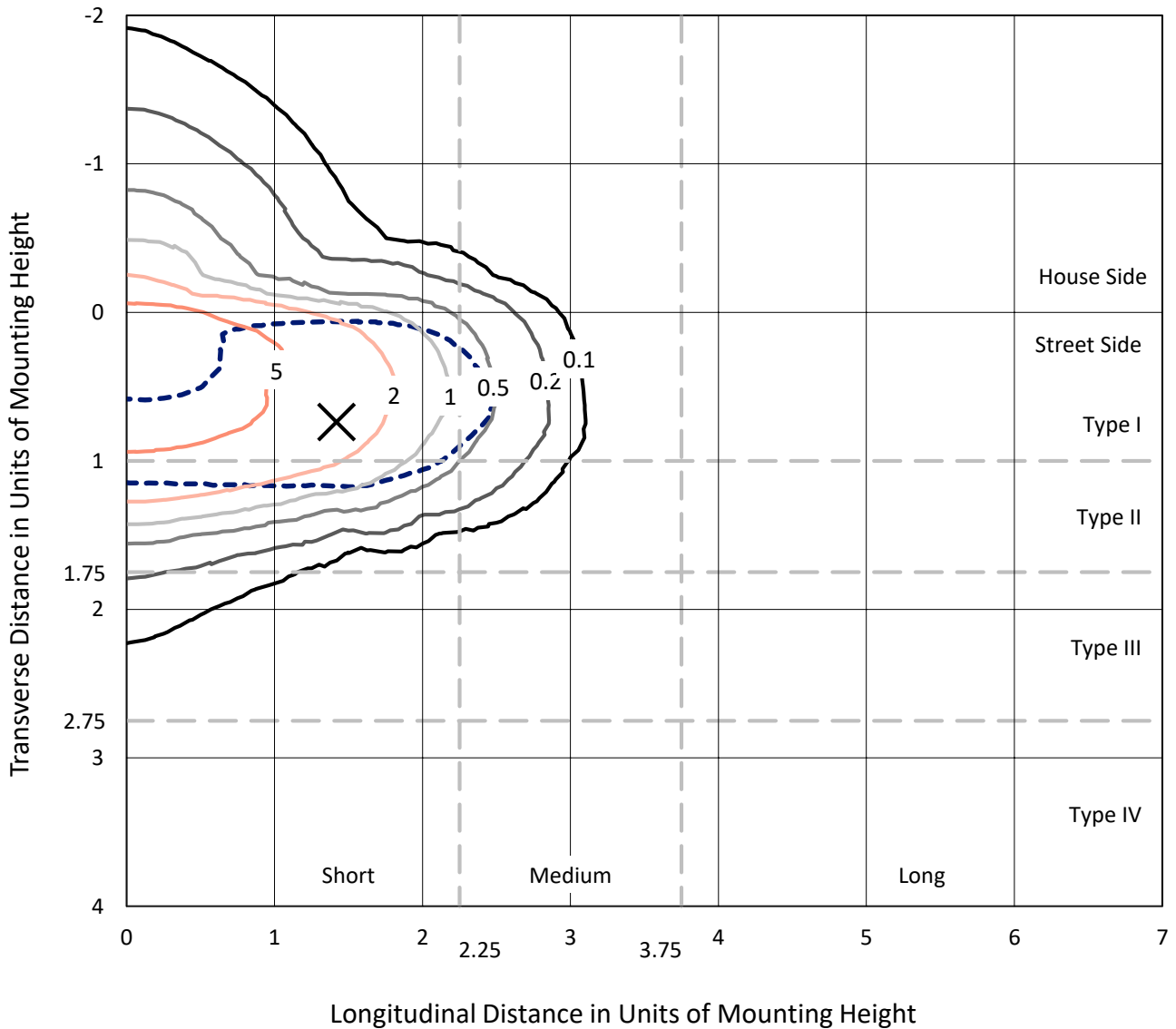
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

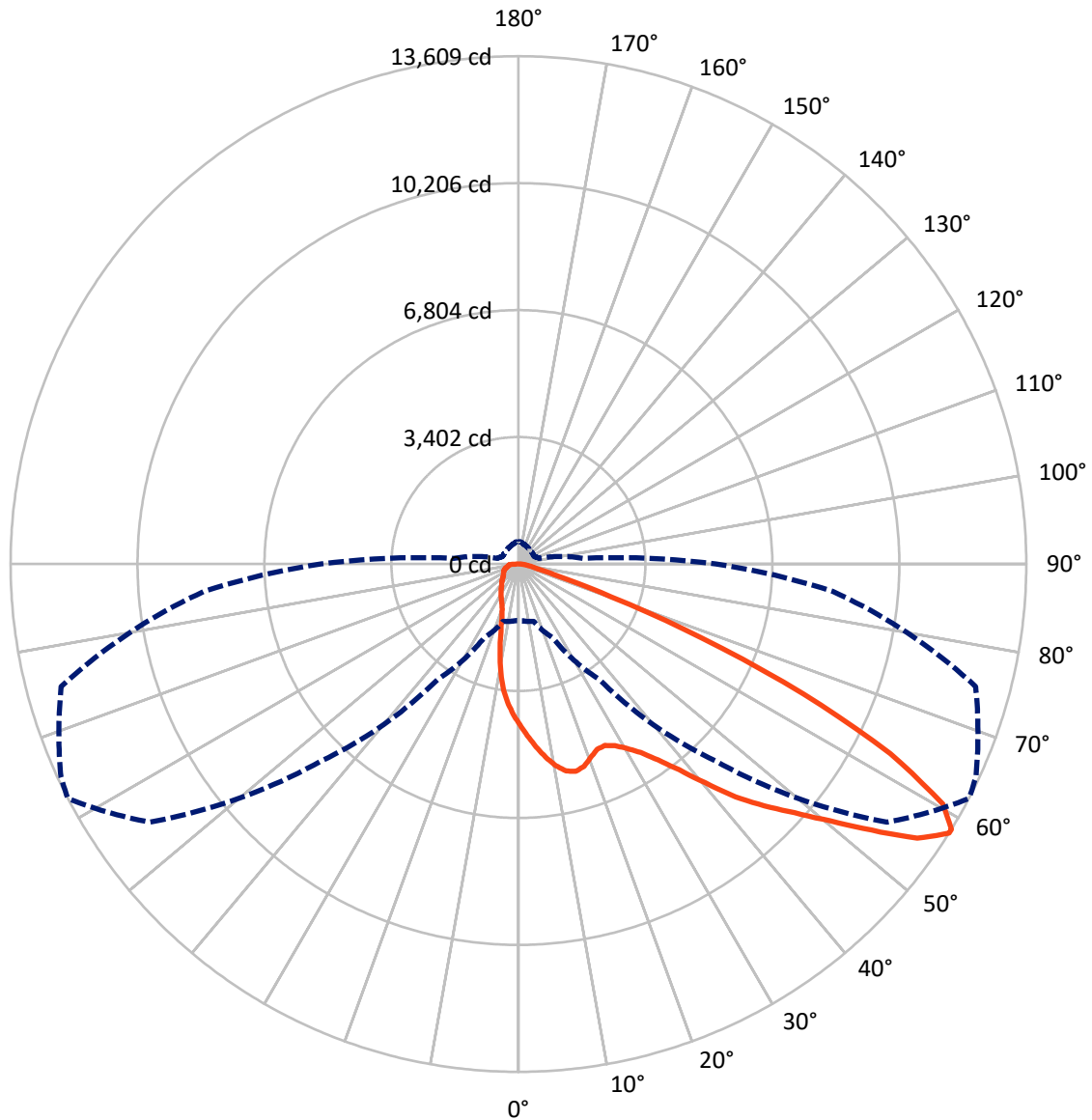
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2470.3	0.0	2470.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13728.1	0.0	13728.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	16198.4	0.0	16198.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.8	2.4
10°-20°	983.7	6.1
20°-30°	1590.1	9.8
30°-40°	2524.3	15.6
40°-50°	3693.6	22.8
50°-60°	3863.2	23.8
60°-70°	2282.4	14.1
70°-80°	643.0	4.0
80°-90°	233.4	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°	16198.4	100.0
0°-180°	16198.4	100.0

Coefficient of Utilization



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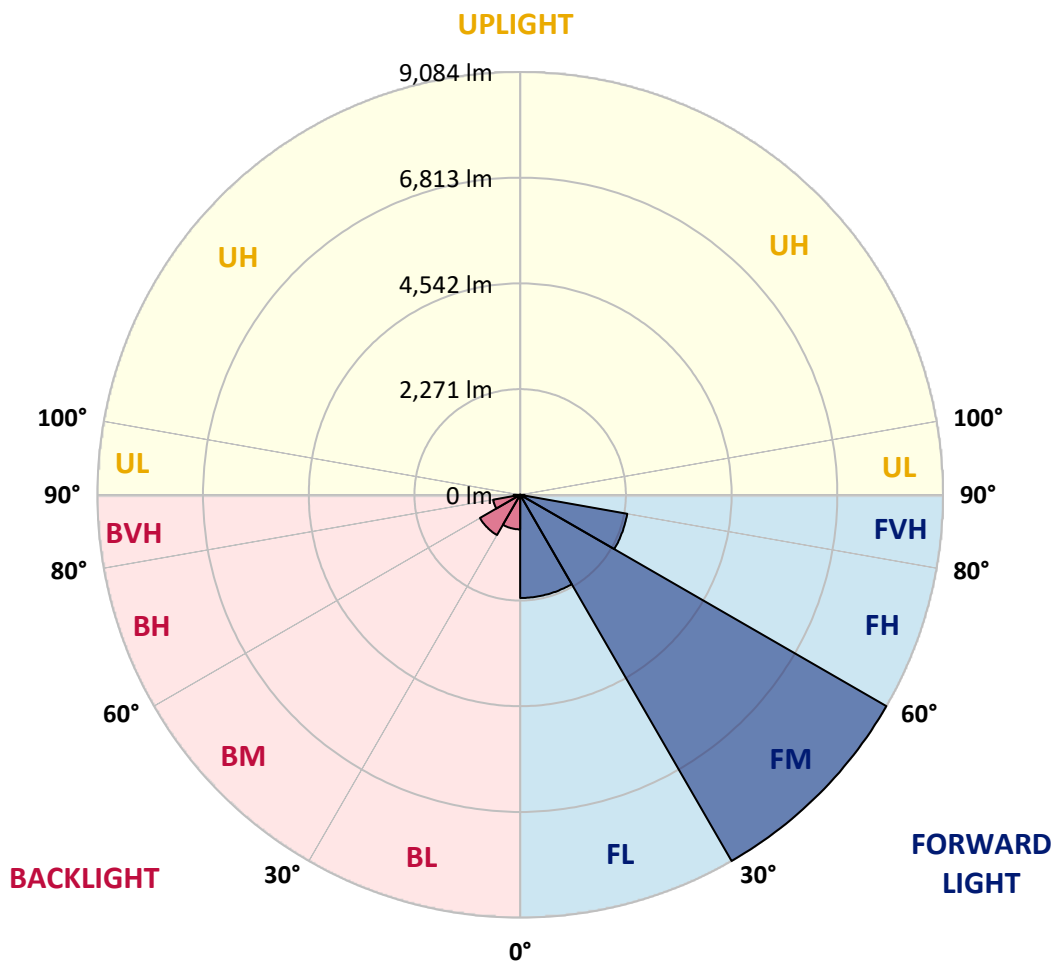
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2216.1	13.7			
FM	(30°-60°)	9084.0	56.1			
FH	(60°-80°)	2335.9	14.4			G2/5000
FVH	(80°-90°)	92.1	0.6			G1/100
BL	(0°-30°)	742.5	4.6	B2/1000		
BM	(30°-60°)	997.1	6.2	B1/1000		
BH	(60°-80°)	589.4	3.6	B2/1000		G2/1000
BVH	(80°-90°)	141.3	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°	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8
2.5°	4916.9	4877.2	4851.9	4829.8	4800.8	4739.1	4655.9	4603.4	4576.7	4485.9	4378.2
5°	5398.9	5363.8	5337.9	5308.1	5256.3	5159.3	5025.1	4918.3	4865.7	4684.1	4469.1
7.5°	5285.9	5300.4	5345.5	5424.1	5491.2	5478.3	5358.4	5222.7	5153.2	4900.8	4574.3
10°	4605.6	4630.8	4708.6	4892.3	5189.9	5495.0	5588.0	5494.3	5424.1	5115.0	4682.7
12.5°	4469.1	4468.3	4474.4	4523.2	4700.2	5129.6	5595.6	5690.3	5648.4	5319.6	4793.3
15°	4524.8	4526.3	4521.7	4542.3	4597.2	4767.2	5362.3	5765.7	5795.5	5525.5	4907.6
17.5°	4671.1	4667.4	4649.8	4649.8	4669.7	4736.0	5087.6	5695.6	5832.9	5707.8	5008.3
20°	4916.9	4899.3	4852.7	4810.1	4788.7	4824.4	4974.8	5533.9	5768.0	5867.2	5091.5
22.5°	5214.3	5200.6	5125.0	5033.6	4959.5	4958.7	5032.8	5392.7	5655.9	6017.4	5161.7
25°	5598.6	5576.6	5464.5	5318.0	5188.3	5138.8	5159.3	5385.9	5595.0	6180.7	5224.3
27.5°	6050.3	6009.8	5877.2	5665.8	5475.1	5375.2	5345.5	5510.3	5650.6	6382.8	5311.1
30°	6598.0	6551.3	6381.3	6106.0	5836.6	5672.6	5609.3	5730.6	5835.2	6629.2	5450.7
32.5°	7221.1	7154.0	6957.3	6653.7	6299.8	6049.5	5946.5	6022.1	6105.2	6925.9	5625.4
35°	8082.3	8002.2	7717.7	7298.9	6899.3	6555.2	6390.5	6445.3	6526.2	7368.3	5877.9
37.5°	8669.6	8633.8	8444.5	8051.0	7616.2	7220.3	6965.5	6997.6	7043.4	7921.3	6201.3
40°	8664.2	8678.7	8682.6	8686.4	8390.3	8011.4	7737.6	7704.0	7694.8	8528.5	6568.9
42.5°	8230.2	8289.7	8481.9	8871.8	9051.7	8877.8	8627.0	8530.0	8481.9	9244.0	6958.7
45°	7565.9	7598.0	7957.9	8719.2	9390.4	9736.0	9546.0	9241.0	9154.0	9901.5	7282.1
47.5°	7223.5	7258.5	7485.0	8314.9	9386.6	10429.3	10539.2	9957.9	9802.3	10473.6	7561.4
50°	6408.0	6481.2	6766.6	7611.7	9044.1	10748.1	11577.3	10812.2	10490.3	11030.4	7841.2
52.5°	4910.7	5023.6	5343.2	6455.3	8175.4	10590.3	12407.8	11848.0	11393.5	11607.0	8081.5
55°	3097.5	3181.4	3450.0	4559.1	6540.0	9768.8	12723.0	12968.7	12564.4	12153.2	8289.7
57.5°	1684.2	1721.5	1822.2	2517.1	4254.0	7952.6	12263.8	13606.3	13438.5	12617.0	8446.9
58°	1507.3	1532.4	1594.9	2181.5	3772.6	7456.0	12060.1	13608.6	13524.6	12684.7	8459.1
60°	1118.2	1105.3	1049.6	1244.8	2099.9	5151.1	10829.0	13064.0	13310.2	12768.0	8399.6
62.5°	982.4	951.1	837.5	824.6	1021.4	2373.0	8286.0	11190.5	11772.6	12293.6	8038.0
65°	923.0	889.4	743.0	695.6	736.8	1003.8	4880.9	8392.8	9122.6	10854.8	7113.6
67.5°	878.7	835.2	682.7	617.9	620.9	663.6	1956.5	5285.9	6107.4	8241.7	5533.1
70°	836.1	788.7	631.6	556.8	539.3	524.8	778.0	2646.0	3391.2	5205.9	3527.9
72.5°	790.1	743.6	586.6	508.8	474.5	426.3	508.0	1082.4	1511.8	2463.0	1600.3
75°	723.9	682.0	541.6	466.0	417.3	353.2	383.7	565.3	678.1	980.9	771.1
77.5°	642.3	608.0	491.3	430.9	369.9	286.7	295.3	392.1	434.8	561.4	458.5
80°	461.5	473.6	437.0	387.4	329.5	232.7	226.6	286.0	308.8	360.8	298.2
82.5°	324.2	331.0	361.6	316.6	272.2	183.1	167.1	201.4	215.1	237.2	160.9
85°	223.5	215.9	247.9	220.4	196.8	122.0	114.4	136.5	144.9	147.2	83.2
87.5°	134.2	134.2	143.4	118.2	106.0	63.3	61.8	77.9	83.2	79.3	45.8
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°	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8	4302.8
2.5°	4314.2	4260.0	4144.9	4052.6	3935.8	3814.7	3746.7	3674.2	3624.8	3588.8	3646.0
5°	4347.0	4236.3	3998.4	3772.6	3523.2	3263.9	3067.2	2884.0	2756.7	2677.3	2752.0
7.5°	4398.9	4228.9	3849.6	3463.8	3016.0	2584.2	2198.3	1956.5	1815.4	1745.9	1789.5
10°	4458.4	4216.6	3675.0	3045.0	2404.3	1860.4	1572.0	1474.4	1442.4	1429.5	1435.5
12.5°	4508.0	4190.7	3460.7	2538.5	1805.5	1469.1	1385.9	1383.7	1390.5	1392.1	1394.3
15°	4543.1	4152.5	3142.6	2010.6	1443.9	1338.7	1334.2	1347.7	1360.8	1366.1	1369.1
17.5°	4566.7	4074.0	2783.4	1589.6	1293.6	1275.4	1286.1	1303.6	1317.4	1321.0	1324.1
20°	4564.4	3958.8	2355.4	1325.7	1212.1	1212.1	1230.4	1244.1	1244.8	1240.3	1242.5
22.5°	4540.8	3800.9	1940.5	1185.4	1139.6	1152.5	1170.9	1157.8	1104.5	1069.4	1071.7
25°	4501.0	3612.4	1585.0	1096.1	1072.4	1095.4	1090.1	992.4	916.1	881.7	881.7
27.5°	4466.1	3389.8	1312.0	1018.3	1005.4	1033.5	939.0	850.4	818.4	802.5	797.1
30°	4440.9	3149.5	1129.7	943.5	942.1	921.4	814.7	790.1	784.8	772.0	767.3
32.5°	4446.9	2906.1	1013.0	878.0	883.3	788.7	755.1	760.4	756.0	742.2	736.2
35°	4497.3	2675.1	936.8	818.4	802.5	712.4	720.0	730.0	728.4	709.4	703.3
37.5°	4587.3	2456.1	886.4	768.9	700.1	674.3	686.5	701.8	698.0	685.0	680.3
40°	4681.8	2250.2	845.1	730.0	640.0	648.3	659.0	667.4	671.3	675.0	672.0
42.5°	4774.1	2035.1	794.8	690.3	614.8	624.0	628.5	636.9	657.5	672.0	671.3
45°	4829.1	1832.9	743.0	633.8	594.9	600.2	597.3	614.0	639.2	662.9	663.6
47.5°	4890.2	1675.8	701.8	582.0	576.0	579.6	570.6	587.3	610.2	639.2	642.3
50°	4964.0	1581.9	669.0	540.8	549.9	549.9	547.6	562.9	594.9	628.5	634.7
52.5°	5047.9	1563.7	641.5	511.0	524.0	523.3	525.6	548.4	583.4	616.2	621.6
55°	5150.3	1613.3	611.7	488.9	498.9	502.0	509.5	535.5	565.3	602.7	604.9
57.5°	5269.2	1714.0	588.1	471.4	475.9	486.0	498.1	521.7	553.7	594.9	597.3
58°	5289.0	1735.3	584.3	469.9	471.4	482.7	496.6	519.4	551.5	596.5	598.8
60°	5289.8	1806.2	576.0	462.9	453.9	472.9	488.1	511.0	547.6	601.9	607.2
62.5°	5102.2	1805.5	569.7	453.0	435.6	459.2	476.7	503.4	543.8	614.8	625.5
65°	4492.8	1640.8	540.8	437.8	421.0	446.9	466.8	498.1	554.6	671.3	678.1
67.5°	3514.1	1344.8	486.6	416.5	402.0	434.8	460.7	497.3	566.0	684.1	688.8
70°	2323.3	1006.1	427.1	392.1	382.1	420.2	463.7	523.3	552.9	656.8	644.5
72.5°	1206.0	706.2	379.1	361.6	359.2	407.3	508.0	520.2	540.1	617.9	602.7
75°	633.0	490.5	337.1	328.1	331.8	404.2	599.4	506.5	523.3	591.2	620.1
77.5°	387.4	395.9	301.3	297.5	305.2	395.2	598.8	488.9	498.9	543.8	576.0
80°	259.3	321.1	273.9	274.6	279.9	361.6	537.7	461.5	469.2	514.1	546.9
82.5°	164.0	189.9	248.7	261.6	254.8	298.2	456.9	420.2	430.9	588.1	621.6
85°	83.2	118.9	215.9	251.7	229.5	208.9	370.7	368.5	373.8	424.1	443.1
87.5°	38.2	65.5	168.6	219.6	173.2	130.4	269.2	273.1	294.5	301.3	301.3
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)