

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: STREETWORKS

Report Number: P268338

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268338
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: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-AFL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17768.7 lumens
Efficiency: N/A
Efficacy: 93.0 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

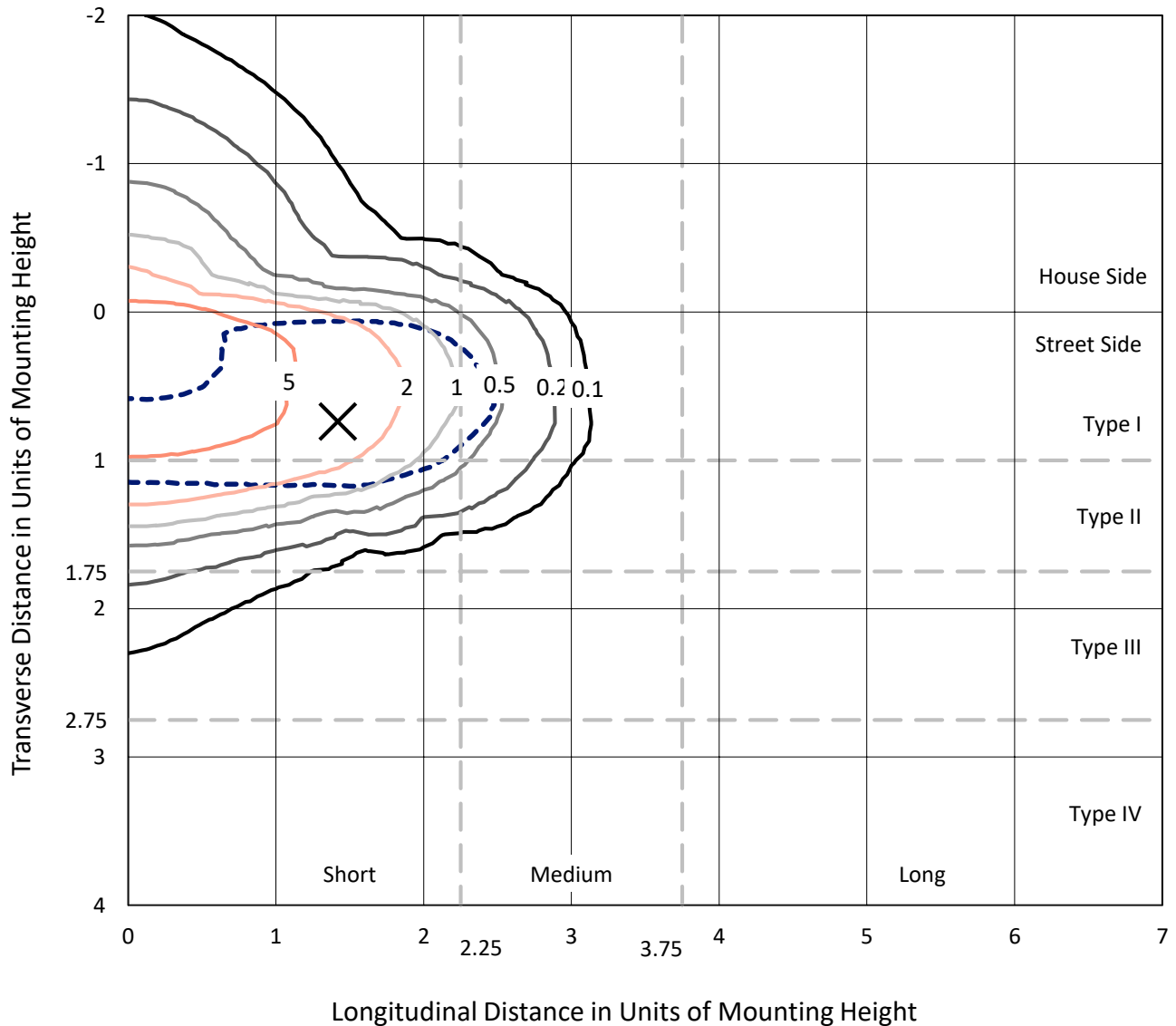
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P268338
 CATALOG NUMBER: GAN-AF-03-LED-U-AFL-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

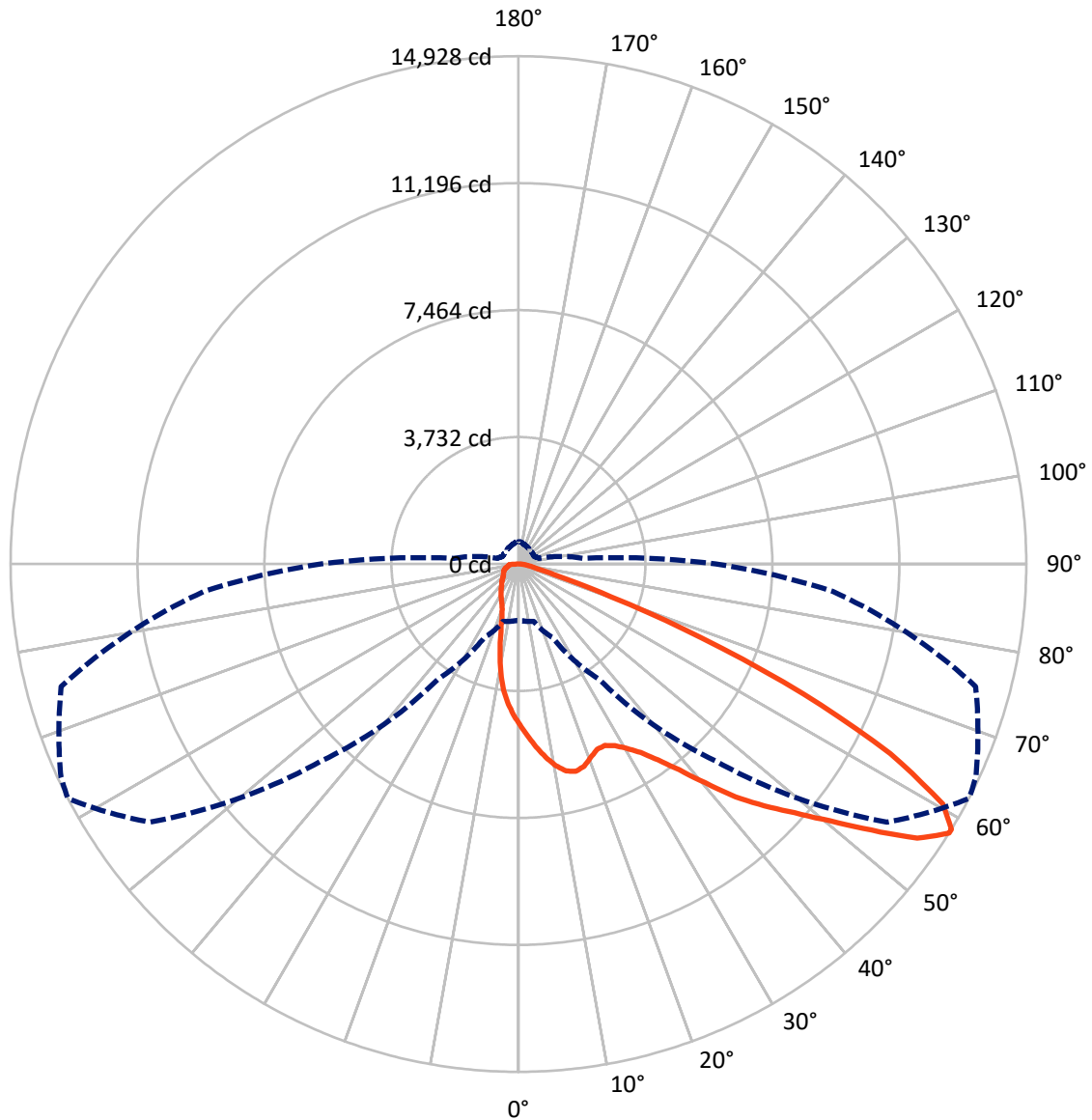


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P268338

CATALOG NUMBER: GAN-AF-03-LED-U-AFL-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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CATALOG NUMBER: GAN-AF-03-LED-U-AFL-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2709.8	0.0	2709.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	15058.9	0.0	15058.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	17768.7	0.0	17768.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	2.4
10°-20°	1079.0	6.1
20°-30°	1744.3	9.8
30°-40°	2769.0	15.6
40°-50°	4051.6	22.8
50°-60°	4237.7	23.8
60°-70°	2503.6	14.1
70°-80°	705.3	4.0
80°-90°	256.1	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°	17768.7	100.0
0°-180°	17768.7	100.0

Coefficient of Utilization



REPORT NUMBER: P268338

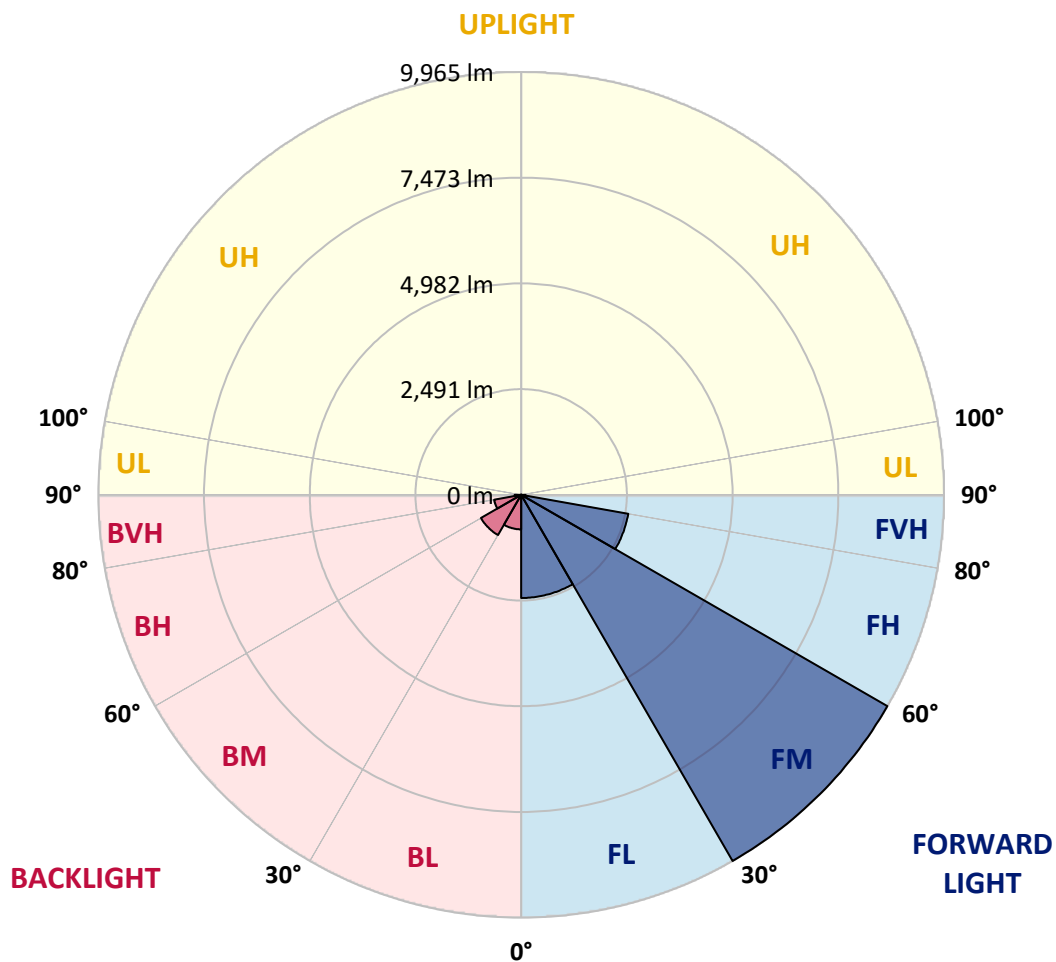
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2431.0	13.7			
FM	(30°-60°)	9964.6	56.1			
FH	(60°-80°)	2562.3	14.4			G2/5000
FVH	(80°-90°)	101.0	0.6			G2/225
BL	(0°-30°)	814.4	4.6	B2/1000		
BM	(30°-60°)	1093.7	6.2	B2/2500		
BH	(60°-80°)	646.6	3.6	B2/1000		G2/1000
BVH	(80°-90°)	155.0	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





REPORT NUMBER: P268338

CATALOG NUMBER: GAN-AF-03-LED-U-AFL-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0
2.5°	5393.5	5349.9	5322.4	5298.1	5266.3	5198.5	5107.4	5049.6	5020.3	4920.7	4802.8
5°	5922.3	5883.8	5855.3	5822.8	5765.9	5659.5	5512.3	5395.1	5337.4	5138.2	4902.3
7.5°	5798.4	5814.3	5863.6	5949.8	6023.6	6009.3	5877.9	5729.0	5652.9	5375.8	5017.8
10°	5052.1	5079.6	5165.1	5366.7	5693.0	6027.6	6129.8	6026.9	5949.8	5611.1	5136.6
12.5°	4902.3	4901.5	4908.2	4961.7	5155.8	5627.0	6138.1	6242.0	6195.9	5835.2	5257.9
15°	4963.3	4965.0	4960.0	4982.5	5042.8	5229.5	5882.1	6324.7	6357.3	6061.1	5383.5
17.5°	5124.0	5119.9	5100.5	5100.5	5122.3	5195.2	5580.9	6247.7	6398.4	6261.1	5493.9
20°	5393.5	5374.2	5323.1	5276.4	5252.8	5292.3	5457.1	6070.3	6327.2	6435.9	5585.0
22.5°	5719.8	5704.7	5622.0	5521.5	5440.3	5439.4	5520.7	5915.6	6204.2	6600.8	5662.0
25°	6141.5	6117.2	5994.2	5833.6	5691.3	5637.0	5659.5	5908.1	6137.3	6779.9	5730.6
27.5°	6636.8	6592.5	6446.9	6215.2	6006.0	5896.4	5863.6	6044.4	6198.3	7001.6	5826.0
30°	7237.6	7186.5	7000.0	6697.9	6402.5	6222.6	6153.2	6286.2	6400.9	7271.9	5979.2
32.5°	7921.2	7847.6	7631.7	7298.6	6910.4	6636.0	6523.0	6605.9	6697.0	7597.3	6170.7
35°	8865.8	8778.0	8465.8	8006.6	7568.1	7190.8	7010.1	7070.2	7159.0	8082.7	6447.8
37.5°	9510.0	9470.8	9263.2	8831.4	8354.5	7920.4	7640.9	7675.9	7726.2	8689.2	6802.4
40°	9504.2	9520.1	9524.3	9528.5	9203.9	8787.9	8487.6	8450.9	8440.7	9355.3	7205.8
42.5°	9028.1	9093.5	9304.3	9731.8	9929.2	9738.5	9463.3	9356.9	9304.3	10140.2	7633.3
45°	8299.4	8334.6	8729.4	9564.4	10300.8	10679.8	10471.5	10136.8	10041.4	10861.3	7988.1
47.5°	7923.7	7962.1	8210.7	9121.0	10296.6	11440.4	11560.8	10923.3	10752.6	11489.0	8294.3
50°	7029.2	7109.5	7422.4	8349.6	9920.9	11790.2	12699.7	11860.4	11507.3	12099.7	8601.5
52.5°	5386.7	5510.7	5861.3	7081.1	8967.9	11616.9	13610.8	12996.7	12497.9	12732.2	8865.0
55°	3397.8	3489.9	3784.5	5001.0	7174.0	10715.8	13956.3	14225.7	13782.3	13331.3	9093.5
57.5°	1847.5	1888.4	1998.9	2761.2	4666.3	8723.6	13452.7	14925.2	14741.2	13840.0	9265.7
58°	1653.3	1681.0	1749.5	2393.1	4138.4	8178.9	13229.2	14927.9	14835.8	13914.6	9279.1
60°	1226.6	1212.4	1151.3	1365.6	2303.4	5650.2	11878.8	14330.4	14600.6	14005.7	9213.8
62.5°	1077.6	1043.4	918.6	904.6	1120.4	2603.0	9089.2	12275.3	12913.9	13485.4	8817.4
65°	1012.4	975.6	814.9	763.1	808.2	1101.1	5354.2	9206.4	10007.1	11907.3	7803.1
67.5°	963.9	916.2	748.8	677.7	681.0	727.9	2146.2	5798.4	6699.6	9040.7	6069.5
70°	917.0	865.2	692.9	610.8	591.5	575.6	853.5	2902.6	3720.1	5710.5	3869.8
72.5°	866.9	815.8	643.5	558.0	520.5	467.7	557.3	1187.3	1658.5	2701.7	1755.4
75°	794.0	748.0	594.0	511.2	457.6	387.3	420.9	620.0	743.8	1076.0	845.9
77.5°	704.5	666.8	538.9	472.8	405.9	314.5	323.7	430.1	476.9	615.8	503.0
80°	506.3	519.6	479.4	425.1	361.5	255.2	248.6	313.8	338.9	395.8	327.2
82.5°	355.5	363.2	396.6	347.3	298.6	200.9	183.3	221.0	236.0	260.1	176.5
85°	245.1	236.9	271.9	241.9	215.9	133.8	125.6	149.7	159.0	161.4	91.2
87.5°	147.2	147.2	157.4	129.6	116.3	69.4	67.8	85.3	91.2	87.0	50.2
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°	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0	4720.0
2.5°	4732.5	4673.1	4546.7	4445.4	4317.4	4184.5	4109.9	4030.4	3976.1	3936.7	3999.6
5°	4768.5	4647.1	4386.1	4138.4	3864.8	3580.4	3364.4	3163.7	3023.9	2936.9	3018.8
7.5°	4825.3	4638.8	4222.9	3799.6	3308.4	2834.8	2411.4	2146.2	1991.5	1915.2	1962.9
10°	4890.6	4625.4	4031.4	3340.2	2637.3	2040.8	1724.4	1617.4	1582.3	1568.0	1574.6
12.5°	4945.0	4596.8	3796.1	2784.6	1980.6	1611.5	1520.3	1517.7	1525.3	1526.9	1529.5
15°	4983.4	4555.0	3447.2	2205.6	1583.9	1468.4	1463.3	1478.5	1492.8	1498.6	1501.8
17.5°	5009.4	4468.9	3053.2	1743.7	1419.1	1399.0	1410.7	1429.9	1445.1	1449.1	1452.5
20°	5007.0	4342.5	2583.7	1454.1	1329.5	1329.5	1349.7	1364.6	1365.6	1360.6	1363.0
22.5°	4980.9	4169.4	2128.7	1300.2	1250.0	1264.3	1284.3	1270.2	1211.5	1173.0	1175.6
25°	4937.4	3962.7	1738.7	1202.3	1176.4	1201.6	1195.6	1088.6	1004.9	967.3	967.3
27.5°	4898.9	3718.4	1439.2	1117.0	1102.8	1133.8	1029.9	932.9	897.8	880.2	874.4
30°	4871.4	3454.8	1239.2	1034.9	1033.3	1010.8	893.6	866.9	860.9	846.7	841.7
32.5°	4878.1	3187.8	1111.2	963.1	968.9	865.2	828.3	834.2	829.1	814.1	807.4
35°	4933.2	2934.4	1027.5	897.8	880.2	781.4	789.9	800.7	799.0	778.1	771.5
37.5°	5031.9	2694.2	972.2	843.4	768.1	739.7	753.0	769.8	765.5	751.3	746.3
40°	5135.8	2468.4	927.1	800.7	701.9	711.2	723.0	732.1	736.3	740.6	737.1
42.5°	5236.9	2232.4	871.9	757.2	674.4	684.4	689.4	698.6	721.2	737.1	736.3
45°	5297.2	2010.6	814.9	695.3	652.7	658.5	655.1	673.5	701.1	727.1	727.9
47.5°	5364.1	1838.2	769.8	638.4	631.7	635.9	625.8	644.3	669.3	701.1	704.5
50°	5445.3	1735.3	733.7	593.2	603.3	603.3	600.7	617.5	652.7	689.4	696.1
52.5°	5537.4	1715.3	703.7	560.6	574.8	573.9	576.5	601.5	640.1	676.1	682.0
55°	5649.5	1769.7	671.0	536.4	547.2	550.5	558.9	587.4	620.0	661.1	663.5
57.5°	5780.1	1880.2	645.2	517.1	522.2	533.0	546.3	572.3	607.4	652.7	655.1
58°	5801.8	1903.5	640.9	515.4	517.1	529.6	544.7	569.9	605.0	654.3	656.8
60°	5802.6	1981.3	631.7	507.9	497.8	518.9	535.5	560.6	600.7	660.2	666.1
62.5°	5596.8	1980.6	625.0	497.0	477.8	503.7	523.0	552.3	596.6	674.4	686.1
65°	4928.2	1799.8	593.2	480.2	461.9	490.4	512.0	546.3	608.3	736.3	743.8
67.5°	3854.7	1475.1	533.9	456.9	441.0	476.9	505.3	545.5	620.9	750.5	755.6
70°	2548.6	1103.6	468.6	430.1	419.1	461.0	508.7	573.9	606.6	720.4	707.1
72.5°	1322.8	774.8	415.8	396.6	394.0	446.7	557.3	570.7	592.4	677.7	661.1
75°	694.5	538.1	369.8	359.9	364.0	443.5	657.6	555.6	573.9	648.4	680.2
77.5°	425.1	434.2	330.4	326.4	334.7	433.4	656.8	536.4	547.2	596.6	631.7
80°	284.6	352.2	300.4	301.2	307.1	396.6	589.8	506.3	514.5	564.0	599.9
82.5°	179.9	208.3	272.7	287.0	279.5	327.2	501.2	461.0	472.8	645.2	682.0
85°	91.2	130.6	236.9	276.0	251.9	229.2	406.7	404.1	409.9	465.2	486.2
87.5°	41.9	72.0	185.0	240.9	189.9	143.1	295.4	299.6	323.0	330.4	330.4
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)