

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: P268574

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268574
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-06-LED-U-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20906.5 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

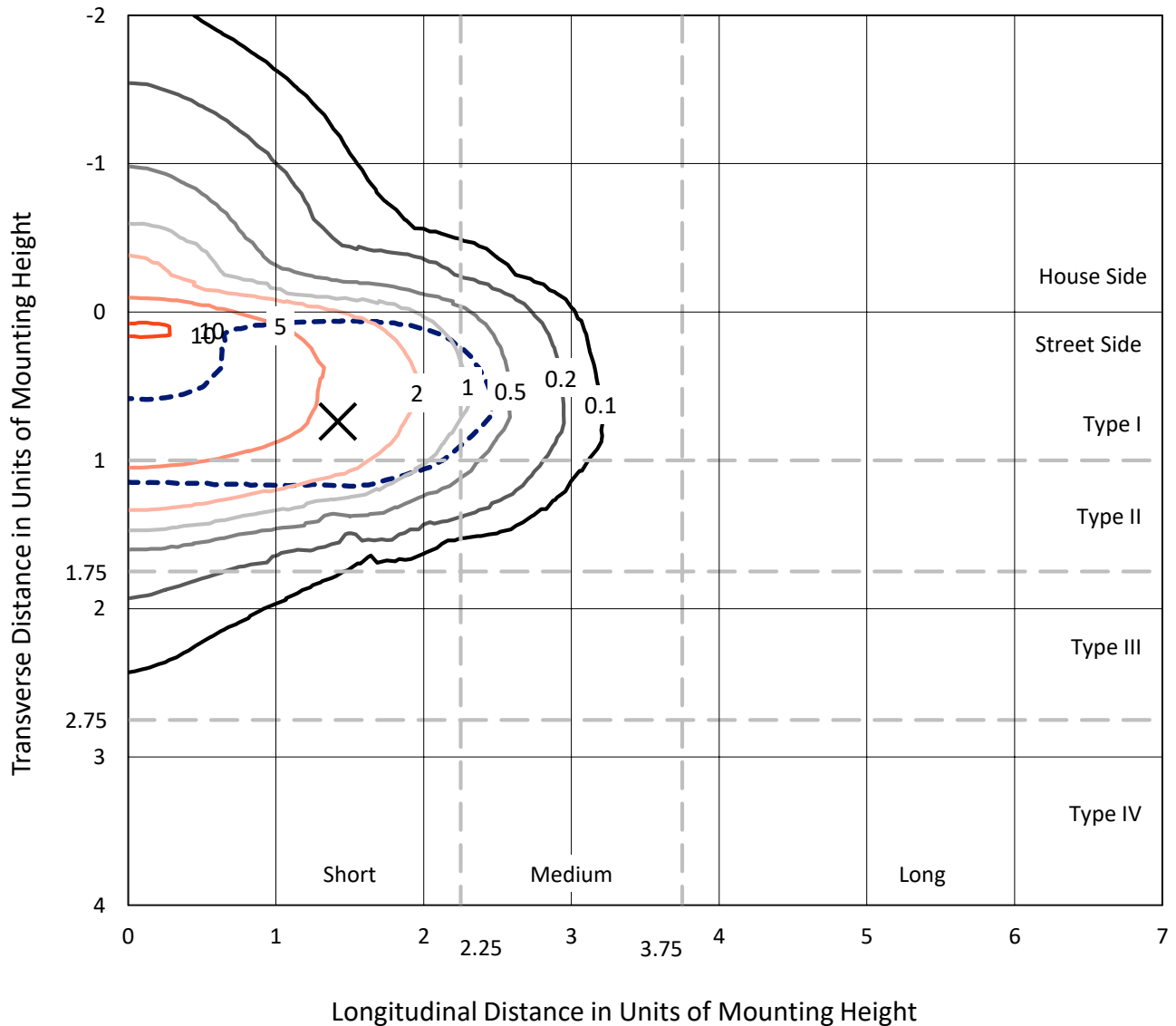
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

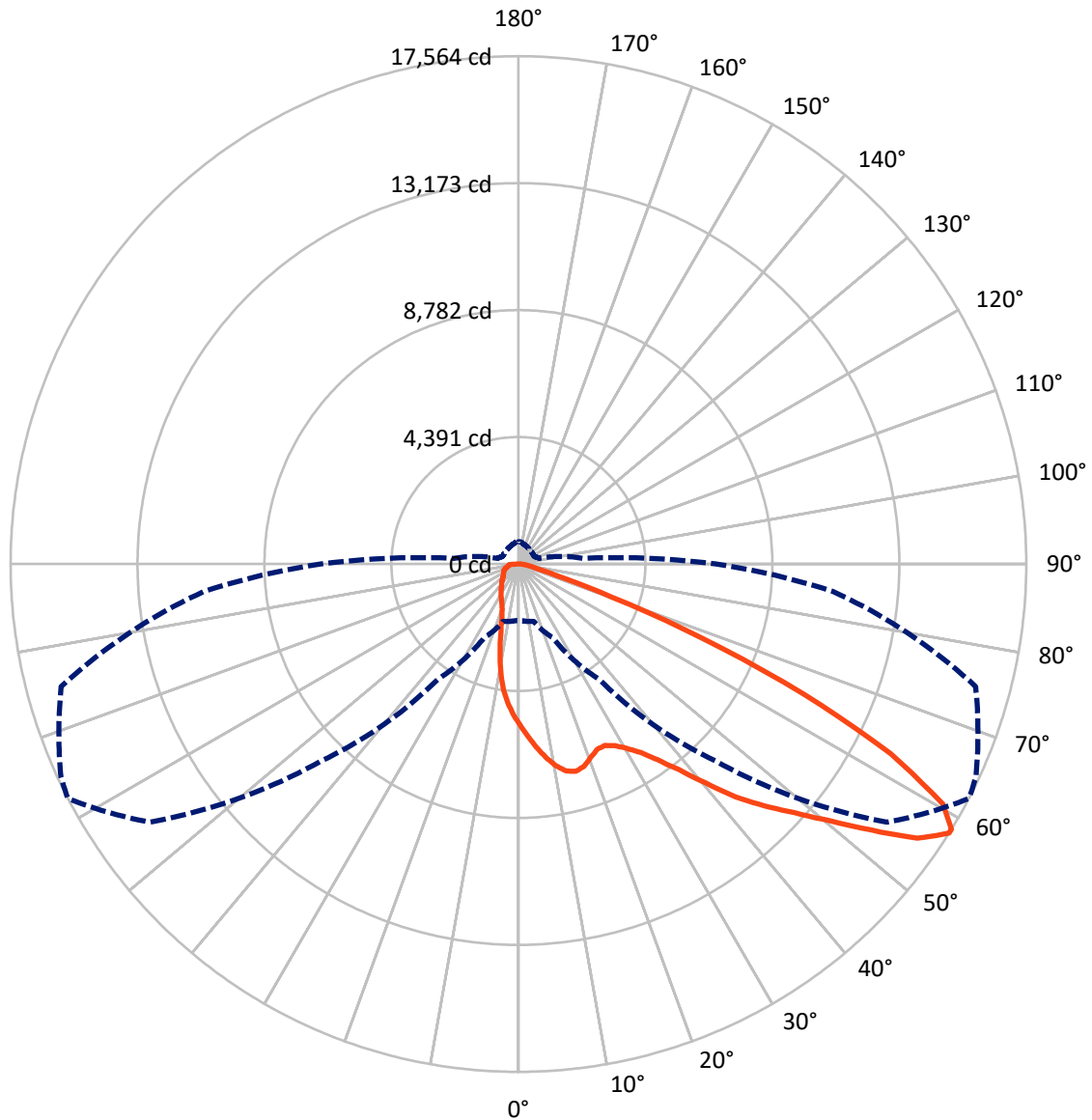
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	3188.3	0.0	3188.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17718.2	0.0	17718.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	20906.5	0.0	20906.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.7	2.4
10°-20°	1269.6	6.1
20°-30°	2052.3	9.8
30°-40°	3258.0	15.6
40°-50°	4767.1	22.8
50°-60°	4986.0	23.8
60°-70°	2945.7	14.1
70°-80°	829.8	4.0
80°-90°	301.3	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°	20906.5	100.0
0°-180°	20906.5	100.0

Coefficient of Utilization



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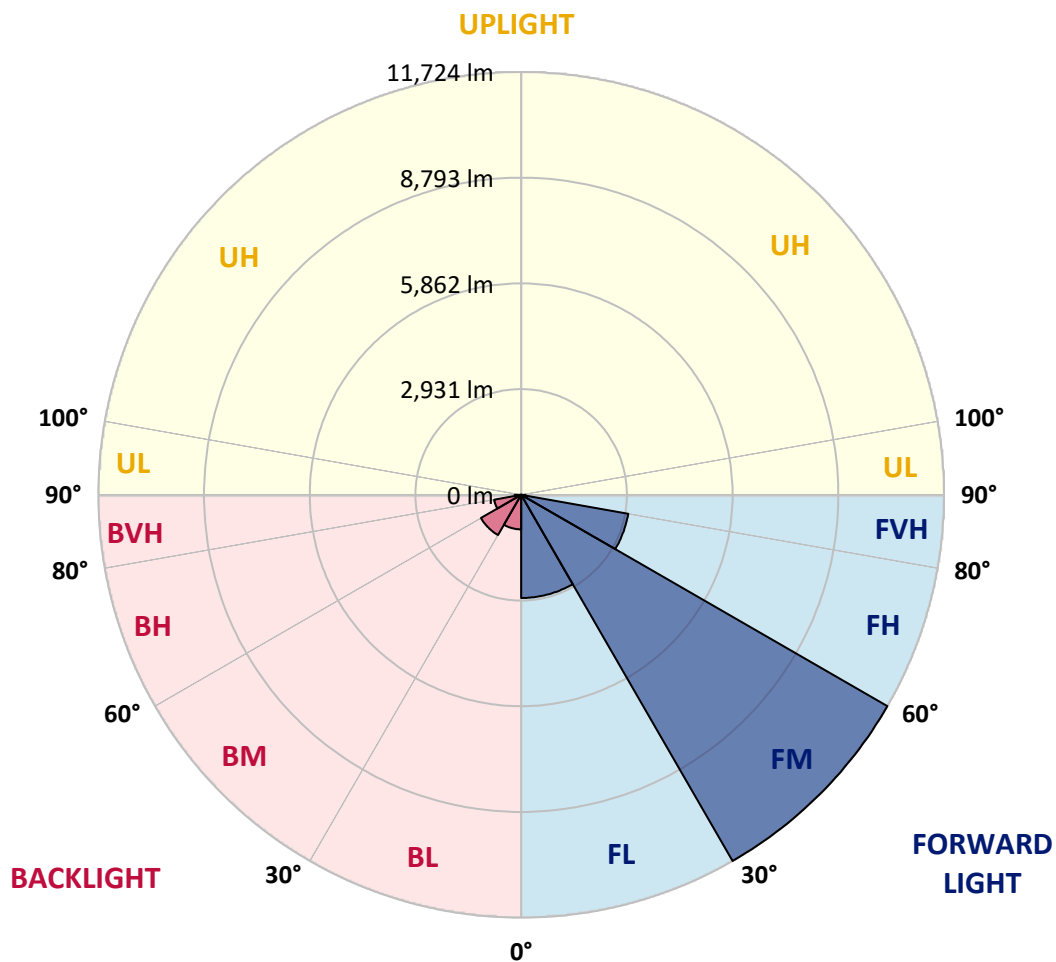
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2860.3	13.7			
FM	(30°-60°)	11724.3	56.1			
FH	(60°-80°)	3014.8	14.4			G2/5000
FVH	(80°-90°)	118.9	0.6			G2/225
BL	(0°-30°)	958.3	4.6	B2/1000		
BM	(30°-60°)	1286.9	6.2	B2/2500		
BH	(60°-80°)	760.8	3.6	B2/1000		G2/1000
BVH	(80°-90°)	182.4	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°	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4
2.5°	6345.8	6294.8	6262.3	6233.7	6196.2	6116.5	6009.2	5941.3	5906.9	5789.7	5650.9
5°	6968.2	6922.8	6889.3	6851.0	6784.0	6659.0	6485.8	6347.9	6280.0	6045.7	5767.9
7.5°	6822.4	6841.1	6899.2	7000.6	7087.2	7070.5	6916.0	6740.6	6651.1	6325.2	5903.9
10°	5944.3	5976.8	6077.2	6314.4	6698.3	7092.1	7212.2	7091.1	7000.6	6601.9	6043.6
12.5°	5767.9	5766.9	5774.9	5837.9	6066.3	6620.6	7222.1	7344.2	7289.9	6865.7	6186.4
15°	5839.9	5841.9	5836.0	5862.5	5933.5	6152.9	6920.8	7441.6	7479.9	7131.6	6334.0
17.5°	6028.9	6023.9	6001.3	6001.3	6026.9	6112.5	6566.4	7351.0	7528.2	7366.8	6464.1
20°	6345.8	6323.3	6263.3	6208.0	6180.5	6226.8	6420.7	7142.3	7444.6	7572.5	6571.3
22.5°	6729.8	6712.1	6614.7	6496.5	6401.1	6400.1	6495.6	6960.2	7299.8	7766.4	6661.9
25°	7226.1	7197.5	7052.8	6863.7	6696.3	6632.4	6659.0	6951.4	7221.0	7977.2	6742.7
27.5°	7808.8	7756.7	7585.4	7312.7	7066.5	6937.6	6899.2	7111.8	7293.0	8238.0	6854.8
30°	8515.7	8455.7	8236.1	7880.7	7533.1	7321.5	7239.8	7396.4	7531.2	8556.0	7035.0
32.5°	9319.9	9233.4	8979.4	8587.5	8130.6	7807.8	7674.8	7772.3	7879.8	8938.9	7260.6
35°	10431.5	10328.1	9960.9	9420.3	8904.4	8460.5	8247.9	8318.8	8423.1	9509.9	7586.4
37.5°	11189.5	11143.2	10899.0	10391.1	9830.0	9318.9	8990.1	9031.5	9090.6	10223.7	8003.8
40°	11182.6	11201.2	11206.3	11211.1	10829.2	10339.9	9986.5	9943.2	9931.3	11007.3	8478.3
42.5°	10622.5	10699.3	10947.4	11450.3	11682.6	11458.2	11134.3	11009.4	10947.4	11930.7	8981.3
45°	9764.9	9806.3	10271.0	11253.4	12119.8	12565.9	12320.7	11926.8	11814.6	12779.4	9398.7
47.5°	9322.9	9368.2	9660.6	10731.7	12114.9	13460.7	13602.5	12852.3	12651.4	13517.8	9759.0
50°	8270.5	8365.0	8733.2	9824.0	11672.8	13872.2	14942.2	13954.9	13539.4	14236.3	10120.3
52.5°	6338.0	6483.7	6896.2	8331.6	10551.5	13668.4	16014.4	15291.8	14705.1	14980.7	10430.5
55°	3997.9	4106.2	4452.8	5884.2	8440.8	12608.2	16420.9	16737.9	16216.3	15685.6	10699.3
57.5°	2173.7	2222.0	2351.9	3248.7	5490.4	10264.0	15828.3	17561.0	17344.4	16284.1	10902.0
58°	1945.3	1977.8	2058.6	2815.6	4869.3	9623.3	15565.4	17563.9	17455.7	16371.7	10917.8
60°	1443.2	1426.5	1354.6	1606.7	2710.2	6648.1	13976.5	16861.0	17178.9	16479.0	10840.9
62.5°	1268.0	1227.7	1080.9	1064.2	1318.3	3062.7	10694.3	14443.2	15194.3	15866.8	10374.3
65°	1191.2	1147.9	958.9	897.9	950.9	1295.5	6299.6	10832.1	11774.3	14010.0	9181.1
67.5°	1134.1	1078.0	881.1	797.4	801.4	856.4	2525.1	6822.4	7882.6	10637.2	7141.3
70°	1079.0	1017.9	815.1	718.6	696.0	677.3	1004.1	3415.1	4376.9	6719.1	4553.1
72.5°	1019.9	959.8	757.0	656.7	612.4	550.3	655.7	1397.0	1951.2	3178.8	2065.5
75°	934.2	880.1	699.1	601.5	538.5	455.8	495.1	729.6	875.2	1266.0	995.3
77.5°	829.0	784.6	634.1	556.2	477.4	370.1	381.1	506.0	561.1	724.6	591.7
80°	595.5	611.3	564.0	500.0	425.3	300.3	292.4	369.2	398.7	465.6	385.0
82.5°	418.4	427.2	466.6	408.5	351.4	236.3	215.7	259.9	277.7	306.1	207.7
85°	288.4	278.7	319.9	284.6	254.0	157.6	147.7	176.2	187.0	190.0	107.3
87.5°	173.3	173.3	185.1	152.6	136.8	81.7	79.7	100.4	107.3	102.3	59.1
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°	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4
2.5°	5568.1	5498.3	5349.5	5230.6	5079.8	4923.3	4835.8	4742.2	4678.3	4631.9	4705.9
5°	5610.5	5467.8	5160.7	4869.3	4547.3	4212.5	3958.6	3722.2	3557.8	3455.5	3552.0
7.5°	5677.5	5457.9	4968.6	4470.4	3892.5	3335.3	2837.2	2525.1	2343.0	2253.5	2309.5
10°	5754.3	5442.1	4743.2	3930.1	3103.0	2401.1	2029.0	1903.0	1861.6	1844.8	1852.8
12.5°	5818.2	5408.6	4466.6	3276.3	2330.3	1896.1	1788.7	1785.8	1794.8	1796.7	1799.7
15°	5863.4	5359.5	4055.9	2595.1	1863.7	1727.7	1721.8	1739.6	1756.2	1763.3	1767.1
17.5°	5894.0	5258.0	3592.3	2051.5	1669.7	1646.1	1659.8	1682.4	1700.2	1705.2	1709.0
20°	5891.1	5109.4	3040.0	1711.0	1564.3	1564.3	1587.9	1605.7	1606.7	1600.8	1603.7
22.5°	5860.5	4905.6	2504.5	1529.9	1470.7	1487.6	1511.2	1494.4	1425.5	1380.2	1383.2
25°	5809.3	4662.5	2045.7	1414.7	1384.2	1413.8	1406.8	1280.9	1182.3	1138.1	1138.1
27.5°	5764.1	4374.9	1693.2	1314.3	1297.5	1334.0	1211.9	1097.6	1056.3	1035.7	1028.7
30°	5731.5	4064.9	1457.9	1217.8	1215.9	1189.3	1051.5	1019.9	1013.0	996.3	990.4
32.5°	5739.5	3750.9	1307.4	1133.1	1139.9	1017.9	974.7	981.5	975.6	958.0	950.0
35°	5804.5	3452.5	1208.8	1056.3	1035.7	919.4	929.3	942.1	940.2	915.6	907.6
37.5°	5920.5	3169.9	1143.9	992.4	903.8	870.3	886.0	905.8	900.8	884.0	878.2
40°	6042.7	2904.2	1090.8	942.1	826.0	836.9	850.5	861.5	866.3	871.3	867.4
42.5°	6161.8	2626.6	1025.9	890.9	793.6	805.3	811.2	821.9	848.5	867.4	866.3
45°	6232.7	2365.6	958.9	818.0	768.0	774.8	770.8	792.6	825.1	855.5	856.4
47.5°	6311.4	2162.8	905.8	751.2	743.3	748.2	736.4	758.0	787.5	825.1	829.0
50°	6406.9	2041.8	863.5	698.1	709.8	709.8	706.8	726.5	768.0	811.2	819.1
52.5°	6515.2	2018.1	828.0	659.5	676.3	675.3	678.3	707.9	753.0	795.4	802.4
55°	6647.2	2082.1	789.5	631.1	643.8	647.8	657.6	691.1	729.6	777.8	780.6
57.5°	6800.7	2212.0	759.0	608.4	614.4	627.0	642.8	673.4	714.7	768.0	770.8
58°	6826.3	2239.7	754.0	606.4	608.4	623.2	640.9	670.5	711.7	769.8	772.8
60°	6827.3	2331.2	743.3	597.6	585.8	610.4	630.0	659.5	706.8	776.8	783.6
62.5°	6585.1	2330.3	735.4	584.7	562.1	592.6	615.2	649.7	701.9	793.6	807.2
65°	5798.5	2117.6	698.1	565.0	543.5	576.9	602.6	642.8	715.7	866.3	875.2
67.5°	4535.5	1735.6	628.0	537.5	518.9	561.1	594.6	641.8	730.5	883.0	889.0
70°	2998.7	1298.5	551.3	506.0	493.2	542.4	598.6	675.3	713.8	847.6	831.9
72.5°	1556.5	911.6	489.2	466.6	463.6	525.7	655.7	671.5	697.1	797.4	777.8
75°	817.1	633.0	435.0	423.3	428.2	521.7	773.8	653.6	675.3	763.0	800.4
77.5°	500.0	511.0	388.8	383.9	393.7	510.0	772.8	631.1	643.8	701.9	743.3
80°	334.7	414.5	353.5	354.4	361.3	466.6	694.0	595.5	605.5	663.6	705.9
82.5°	211.7	245.1	321.0	337.7	328.8	385.0	589.6	542.4	556.2	759.0	802.4
85°	107.3	153.6	278.7	324.8	296.4	269.8	478.4	475.6	482.4	547.3	572.0
87.5°	49.2	84.7	217.6	283.5	223.5	168.3	347.6	352.4	380.1	388.8	388.8
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)