

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: P268496

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268496
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-05-LED-U-AFL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21423.8 lumens
Efficiency: N/A
Efficacy: 102.0 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

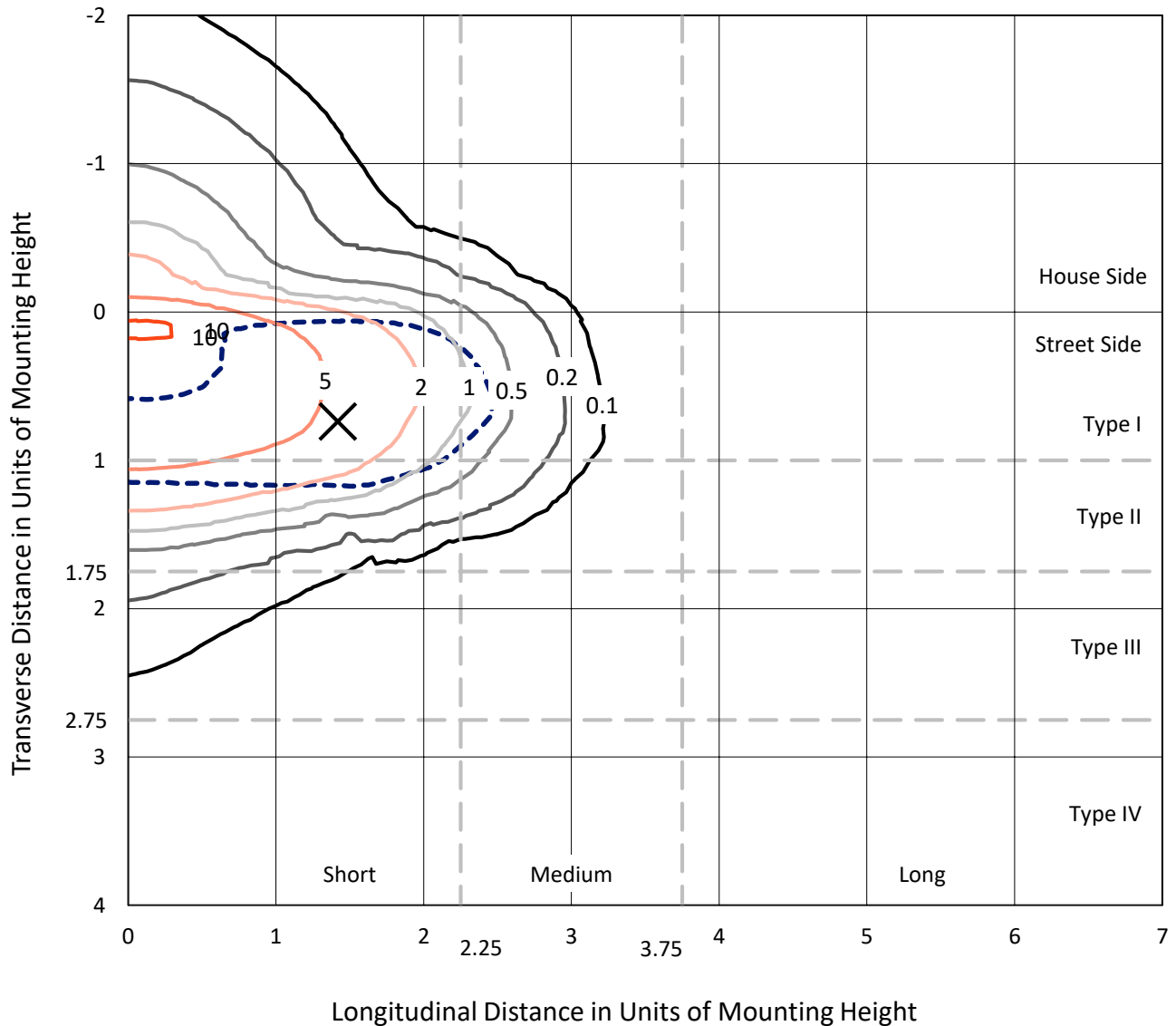
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

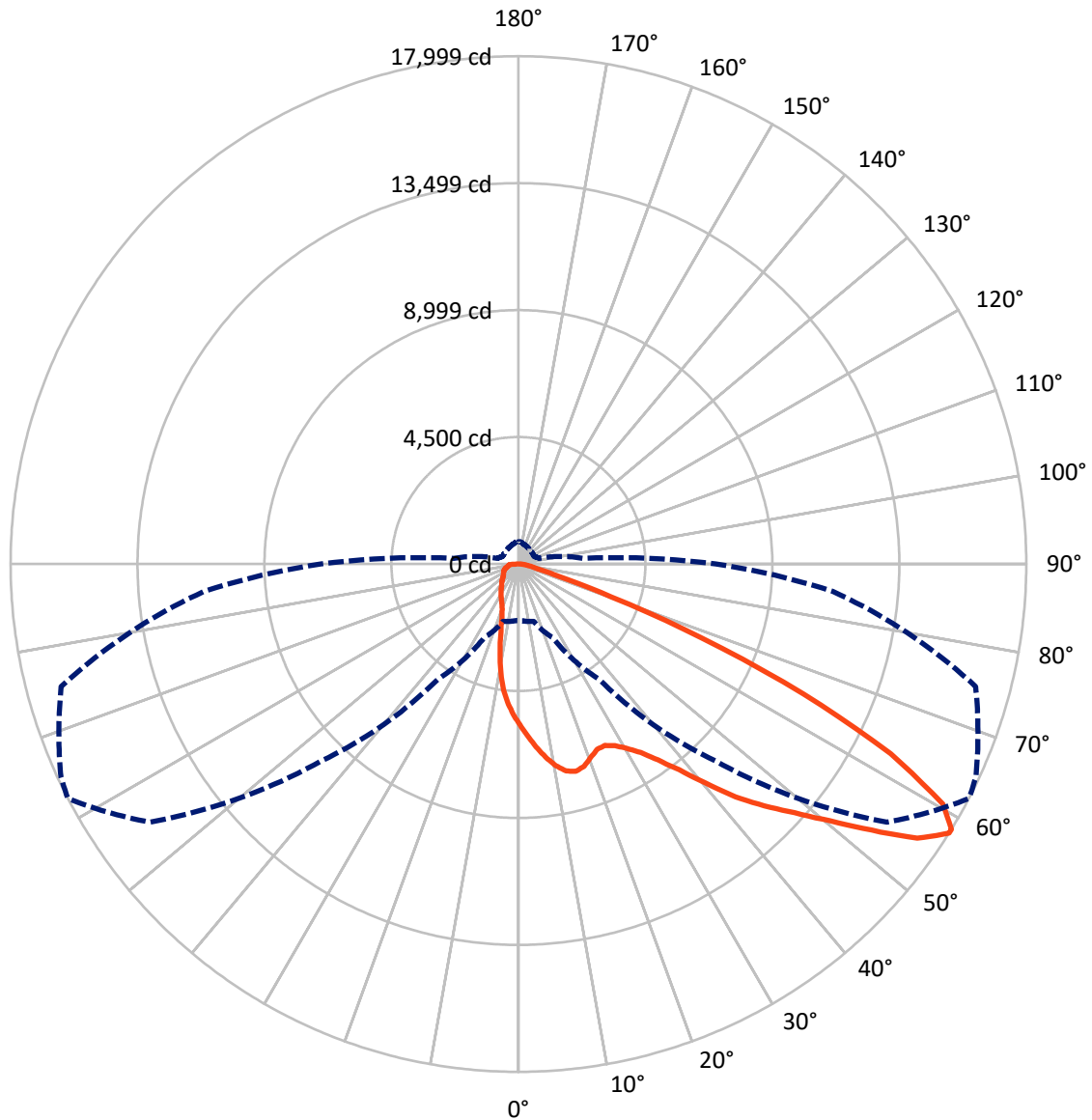
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	3267.2	0.0	3267.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	18156.6	0.0	18156.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	21423.8	0.0	21423.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.0	2.4
10°-20°	1301.0	6.1
20°-30°	2103.1	9.8
30°-40°	3338.6	15.6
40°-50°	4885.1	22.8
50°-60°	5109.4	23.8
60°-70°	3018.6	14.1
70°-80°	850.4	4.0
80°-90°	308.7	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°	21423.8	100.0
0°-180°	21423.8	100.0

Coefficient of Utilization



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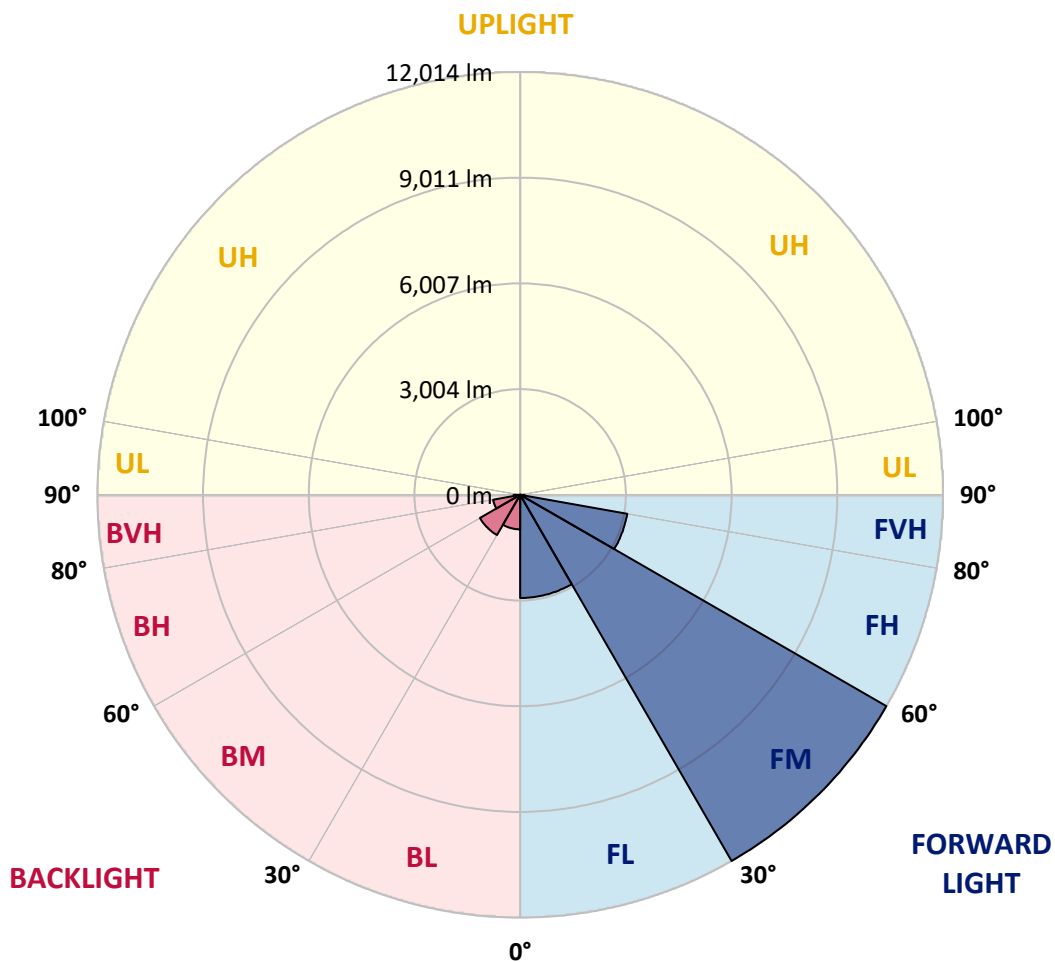
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2931.0	13.7			
FM (30°-60°)	12014.3	56.1			
FH (60°-80°)	3089.4	14.4			G2/5000
FVH (80°-90°)	121.8	0.6			G2/225
BL (0°-30°)	982.0	4.6	B2/1000		
BM (30°-60°)	1318.7	6.2	B2/2500		
BH (60°-80°)	779.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	186.9	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°	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9
2.5°	6502.9	6450.4	6417.1	6387.8	6349.6	6267.8	6157.9	6088.3	6053.0	5932.9	5790.7
5°	7140.4	7094.1	7059.8	7020.4	6951.9	6823.7	6646.1	6504.8	6435.3	6195.3	5910.7
7.5°	6991.1	7010.4	7069.8	7173.8	7262.5	7245.4	7087.0	6907.4	6815.6	6481.7	6049.9
10°	6091.2	6124.6	6227.5	6470.6	6864.0	7267.6	7390.6	7266.6	7173.8	6765.1	6193.2
12.5°	5910.7	5909.7	5917.8	5982.4	6216.5	6784.4	7400.7	7525.8	7470.3	7035.5	6339.5
15°	5984.4	5986.3	5980.3	6007.5	6080.2	6305.2	7092.1	7625.7	7665.1	7307.9	6490.9
17.5°	6178.1	6173.1	6149.7	6149.7	6176.0	6263.8	6728.8	7532.8	7714.6	7549.0	6623.9
20°	6502.9	6479.7	6418.2	6361.6	6333.4	6380.8	6579.5	7319.0	7628.8	7759.9	6734.0
22.5°	6896.4	6878.2	6778.3	6657.2	6559.5	6558.3	6656.3	7132.5	7480.5	7958.7	6826.7
25°	7404.8	7375.5	7227.3	7033.5	6862.1	6796.4	6823.7	7123.3	7399.8	8174.5	6909.5
27.5°	8002.0	7948.6	7773.0	7493.7	7241.3	7109.1	7069.8	7287.8	7473.4	8441.8	7024.4
30°	8726.3	8664.8	8439.8	8075.7	7719.6	7502.6	7418.9	7579.3	7717.5	8767.6	7209.1
32.5°	9550.6	9461.8	9201.5	8799.9	8331.9	8001.1	7864.8	7964.7	8074.7	9160.1	7440.1
35°	10689.6	10583.7	10207.4	9653.5	9124.9	8669.8	8452.0	8524.6	8631.5	9745.3	7774.0
37.5°	11466.3	11419.0	11168.6	10648.1	10073.1	9549.5	9212.6	9255.0	9315.6	10476.7	8201.7
40°	11459.3	11478.5	11483.5	11488.6	11097.1	10595.7	10233.5	10189.1	10177.1	11279.7	8688.0
42.5°	10885.2	10964.0	11218.2	11733.8	11971.7	11741.7	11409.8	11281.8	11218.2	12225.9	9203.6
45°	10006.6	10048.9	10525.1	11531.9	12419.6	12876.7	12625.5	12221.9	12106.9	13095.6	9631.3
47.5°	9553.6	9599.9	9899.6	10997.2	12414.7	13793.7	13939.0	13170.2	12964.3	13852.3	10000.6
50°	8475.1	8571.9	8949.4	10067.0	11961.7	14215.4	15312.0	14300.1	13874.4	14588.7	10370.8
52.5°	6494.8	6644.1	7066.8	8537.8	10812.5	14006.6	16410.5	15670.2	15068.9	15351.3	10688.6
55°	4096.8	4207.8	4562.9	6029.8	8649.7	12920.1	16827.2	17152.1	16617.3	16073.6	10964.0
57.5°	2227.4	2276.9	2410.2	3329.1	5626.3	10518.1	16219.8	17995.4	17773.5	16686.9	11171.7
58°	1993.5	2026.8	2109.5	2885.3	4989.6	9861.2	15950.6	17998.5	17887.5	16776.7	11187.9
60°	1478.9	1461.8	1388.2	1646.5	2777.3	6812.6	14322.2	17278.2	17604.1	16886.8	11109.2
62.5°	1299.4	1257.9	1107.7	1090.5	1350.8	3138.5	10959.0	14800.5	15570.2	16259.2	10631.0
65°	1220.6	1176.3	982.6	920.0	974.5	1327.7	6455.5	11100.1	12065.6	14356.6	9408.3
67.5°	1162.1	1104.6	902.8	817.2	821.2	877.6	2587.7	6991.1	8077.6	10900.4	7318.0
70°	1105.6	1043.1	835.3	736.4	713.3	694.1	1029.0	3499.5	4485.2	6885.2	4665.8
72.5°	1045.2	983.6	775.7	672.9	627.5	564.0	671.9	1431.4	1999.4	3257.6	2116.5
75°	957.4	901.9	716.3	616.3	551.7	467.1	507.5	747.5	896.9	1297.3	1019.9
77.5°	849.4	804.1	649.7	570.0	489.2	379.4	390.5	518.5	575.0	742.4	606.3
80°	610.4	626.5	578.1	512.6	435.8	307.7	299.7	378.2	408.5	477.2	394.4
82.5°	428.8	437.8	478.2	418.7	360.1	242.2	221.0	266.3	284.6	313.8	212.9
85°	295.6	285.5	327.9	291.6	260.2	161.4	151.4	180.6	191.7	194.8	110.0
87.5°	177.5	177.5	189.6	156.3	140.2	83.7	81.7	102.9	110.0	104.9	60.5
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°	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9	5690.9
2.5°	5705.9	5634.3	5481.9	5359.8	5205.6	5045.2	4955.4	4859.6	4794.0	4746.6	4822.2
5°	5749.3	5603.0	5288.2	4989.6	4659.8	4316.7	4056.4	3814.4	3646.0	3540.9	3639.8
7.5°	5818.0	5592.9	5091.6	4581.0	3989.0	3418.0	2907.5	2587.7	2401.0	2309.3	2366.8
10°	5896.6	5576.8	4860.5	4027.2	3179.8	2460.5	2079.1	1950.1	1907.7	1890.6	1898.6
12.5°	5962.2	5542.5	4577.0	3357.3	2387.9	1943.0	1833.0	1829.9	1839.1	1841.0	1844.1
15°	6008.6	5492.1	4156.4	2659.3	1909.6	1770.5	1764.5	1782.5	1799.8	1806.9	1810.9
17.5°	6039.8	5388.2	3681.3	2102.5	1711.0	1686.7	1700.9	1724.0	1742.3	1747.4	1751.3
20°	6036.8	5235.9	3115.2	1753.3	1603.0	1603.0	1627.2	1645.3	1646.5	1640.3	1643.4
22.5°	6005.6	5026.9	2566.5	1567.7	1507.1	1524.3	1548.6	1531.4	1460.7	1414.4	1417.3
25°	5953.1	4777.7	2096.4	1449.7	1418.5	1448.6	1441.6	1312.5	1211.6	1166.2	1166.2
27.5°	5906.6	4483.3	1735.2	1346.7	1329.6	1367.0	1241.8	1124.9	1082.5	1061.3	1054.3
30°	5873.4	4165.4	1494.2	1247.9	1245.9	1218.7	1077.4	1045.2	1038.1	1021.0	1014.8
32.5°	5881.5	3843.7	1339.7	1161.1	1168.2	1043.1	998.7	1005.8	999.8	981.6	973.6
35°	5948.0	3538.0	1238.9	1082.5	1061.3	942.2	952.4	965.5	963.4	938.2	930.1
37.5°	6067.2	3248.5	1172.3	1016.9	926.2	891.7	907.9	928.0	923.1	905.9	899.9
40°	6192.1	2976.1	1117.9	965.5	846.5	857.5	871.6	882.8	887.7	892.8	888.8
42.5°	6314.2	2691.5	1051.1	912.9	813.1	825.3	831.3	842.4	869.6	888.8	887.7
45°	6386.9	2424.2	982.6	838.4	786.8	793.9	789.9	812.1	845.3	876.7	877.6
47.5°	6467.5	2216.4	928.0	769.8	761.7	766.8	754.5	776.9	807.0	845.3	849.4
50°	6565.4	2092.3	884.7	715.3	727.4	727.4	724.4	744.5	786.8	831.3	839.3
52.5°	6676.5	2068.1	848.4	676.0	693.0	692.1	695.1	725.3	771.7	815.1	822.2
55°	6811.6	2133.7	809.1	646.7	659.7	663.8	673.9	708.3	747.5	796.9	800.0
57.5°	6969.1	2266.9	777.8	623.5	629.5	642.6	658.7	690.1	732.4	786.8	789.9
58°	6995.2	2295.1	772.7	621.4	623.5	638.5	656.8	687.1	729.3	788.9	791.9
60°	6996.2	2389.0	761.7	612.4	600.2	625.5	645.6	676.0	724.4	796.0	803.1
62.5°	6748.1	2387.9	753.6	599.2	576.1	607.3	630.5	665.9	719.4	813.1	827.2
65°	5942.0	2169.9	715.3	579.0	556.9	591.2	617.5	658.7	733.5	887.7	896.9
67.5°	4647.7	1778.6	643.6	550.8	531.6	575.0	609.3	657.7	748.6	905.0	911.1
70°	3072.9	1330.6	564.9	518.5	505.4	556.0	613.4	692.1	731.4	868.7	852.4
72.5°	1594.9	934.1	501.3	478.2	475.2	538.8	671.9	688.0	714.2	817.2	796.9
75°	837.3	648.7	445.9	433.8	438.8	534.8	792.9	669.9	692.1	781.9	820.2
77.5°	512.6	523.6	398.5	393.5	403.5	522.5	791.9	646.7	659.7	719.4	761.7
80°	343.1	424.7	362.1	363.2	370.2	478.2	711.2	610.4	620.4	679.9	723.3
82.5°	216.9	251.2	328.9	346.0	337.0	394.4	604.3	556.0	570.0	777.8	822.2
85°	110.0	157.4	285.5	332.9	303.6	276.4	490.3	487.3	494.3	560.9	586.1
87.5°	50.5	86.7	223.0	290.5	229.0	172.6	356.1	361.2	389.4	398.5	398.5
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)