

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: P268734

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268734
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-08-LED-U-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 28015.4 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 257
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

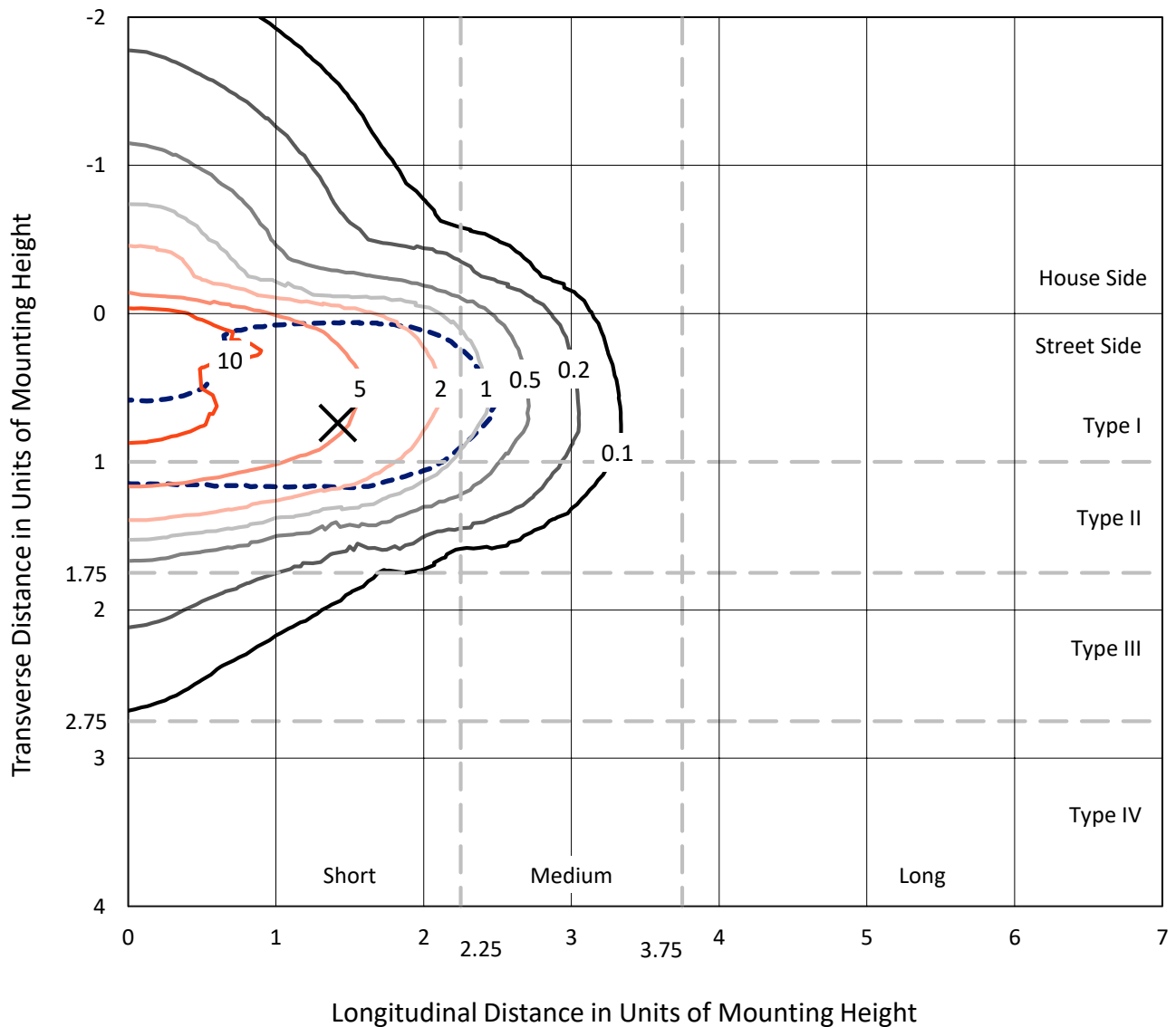


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Iso-Footcandle Lines of Horizontal Illumination

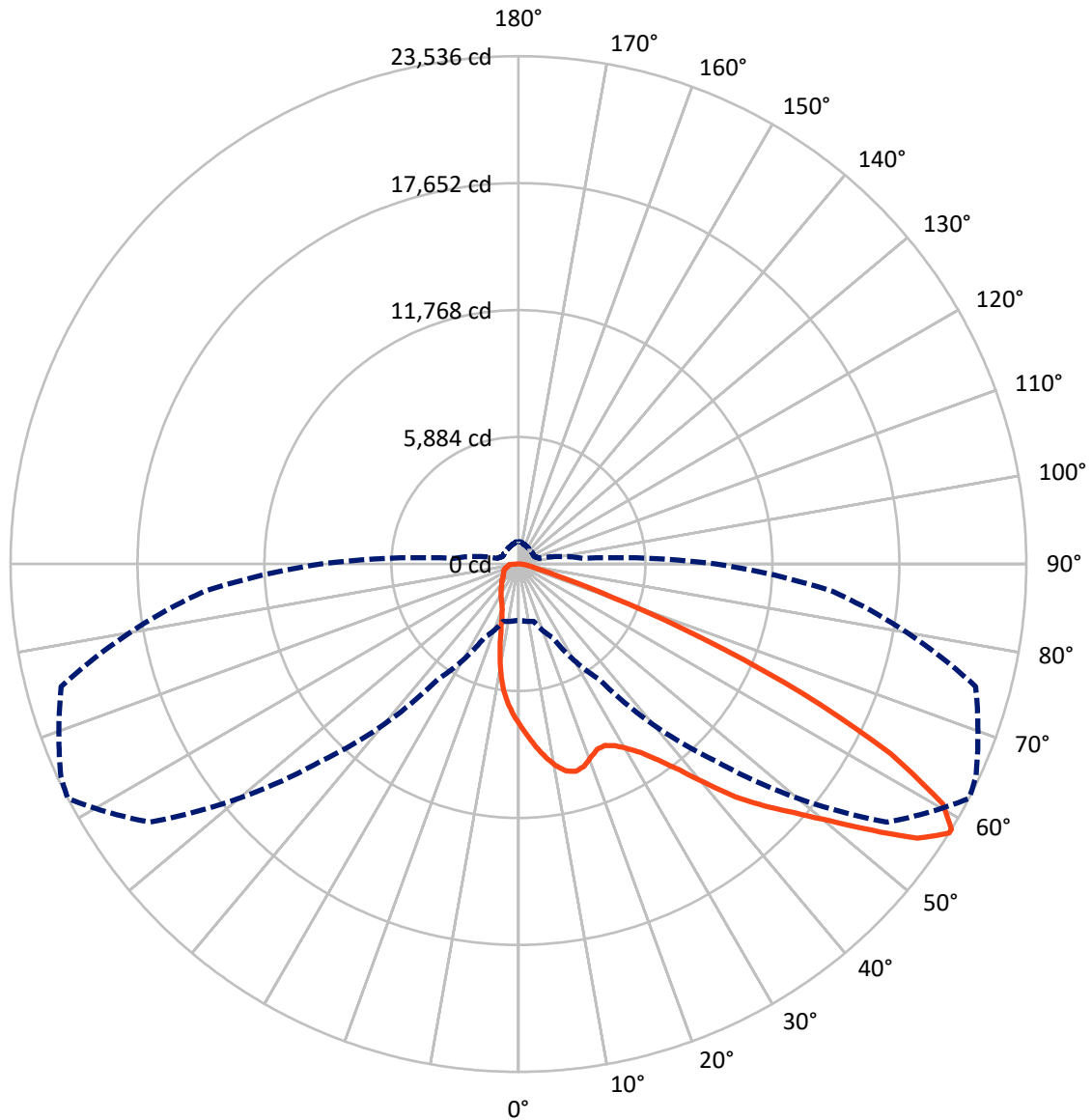
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	4272.4	0.0	4272.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23742.9	0.0	23742.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	28015.4	0.0	28015.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.6	2.4
10°-20°	1701.3	6.1
20°-30°	2750.1	9.8
30°-40°	4365.8	15.6
40°-50°	6388.1	22.8
50°-60°	6681.4	23.8
60°-70°	3947.4	14.1
70°-80°	1112.0	4.0
80°-90°	403.7	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°	28015.4	100.0
0°-180°	28015.4	100.0



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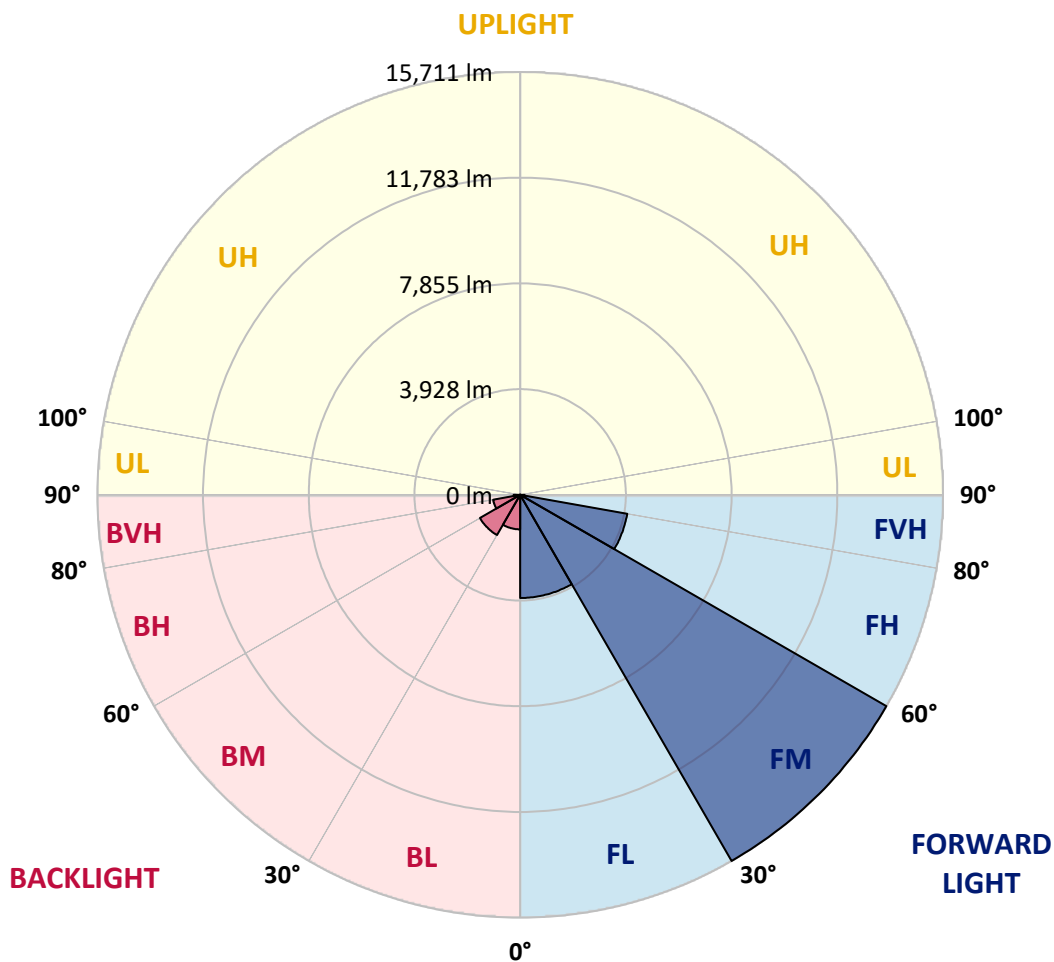
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3832.9	13.7			
FM	(30°-60°)	15710.9	56.1			
FH	(60°-80°)	4039.9	14.4			G2/5000
FVH	(80°-90°)	159.3	0.6			G2/225
BL	(0°-30°)	1284.1	4.6	B3/2500		
BM	(30°-60°)	1724.5	6.2	B2/2500		
BH	(60°-80°)	1019.4	3.6	B3/2500		G3/2500
BVH	(80°-90°)	244.4	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6
2.5°	8503.6	8435.1	8391.5	8353.2	8303.2	8196.3	8052.5	7961.5	7915.3	7758.3	7572.4
5°	9337.4	9276.7	9231.9	9180.5	9090.8	8923.3	8691.0	8506.3	8415.3	8101.4	7729.2
7.5°	9142.2	9167.3	9245.0	9381.0	9497.2	9474.7	9267.5	9032.6	8912.7	8476.0	7911.4
10°	7965.5	8009.0	8143.6	8461.5	8976.0	9503.7	9664.7	9502.4	9381.0	8846.7	8098.7
12.5°	7729.2	7727.9	7738.5	7823.0	8129.0	8871.8	9677.8	9841.4	9768.8	9200.3	8290.0
15°	7825.7	7828.3	7820.4	7855.9	7951.0	8245.2	9274.1	9971.9	10023.5	9556.3	8487.8
17.5°	8078.8	8072.3	8041.9	8041.9	8076.2	8191.0	8799.2	9850.6	10088.1	9871.7	8661.9
20°	8503.6	8473.4	8392.9	8319.1	8282.1	8344.0	8604.0	9570.9	9975.9	10147.4	8805.7
22.5°	9018.2	8994.5	8863.8	8705.6	8577.6	8576.3	8704.1	9326.9	9782.1	10407.4	8927.1
25°	9683.1	9644.8	9450.9	9197.6	8973.3	8887.7	8923.3	9315.1	9676.5	10689.7	9035.3
27.5°	10464.0	10394.2	10164.6	9799.3	9469.4	9296.6	9245.0	9530.1	9772.8	11039.2	9185.7
30°	11411.3	11330.9	11036.5	10560.4	10094.7	9811.1	9701.5	9911.3	10092.1	11465.3	9427.2
32.5°	12489.0	12373.0	12032.5	11507.6	10895.5	10462.6	10284.6	10415.3	10559.0	11978.4	9729.3
35°	13978.4	13839.9	13347.8	12623.6	11932.4	11337.4	11052.4	11147.3	11287.3	12743.6	10165.8
37.5°	14994.2	14932.3	14605.2	13924.4	13172.4	12487.8	12047.1	12102.5	12181.6	13700.1	10725.3
40°	14985.0	15010.0	15016.6	15023.3	14511.4	13855.7	13382.2	13324.1	13308.3	14750.2	11361.1
42.5°	14234.5	14337.3	14669.7	15343.9	15655.2	15354.4	14920.4	14752.9	14669.7	15987.7	12035.2
45°	13085.3	13140.8	13763.4	15079.9	16240.9	16838.5	16510.0	15982.4	15832.0	17124.7	12594.5
47.5°	12493.0	12553.8	12945.6	14380.8	16234.3	18037.6	18227.7	17222.5	16953.4	18114.2	13077.4
50°	11082.7	11209.4	11702.8	13164.5	15641.9	18589.2	20023.1	18699.9	18143.2	19077.2	13561.6
52.5°	8493.1	8688.3	9241.1	11164.6	14139.4	18316.0	21459.8	20491.4	19705.2	20074.6	13977.2
55°	5357.3	5502.5	5966.8	7885.1	11311.0	16895.2	22004.6	22429.4	21730.2	21019.1	14337.3
57.5°	2912.8	2977.5	3151.7	4353.5	7357.3	13754.2	21210.4	23532.3	23242.0	21821.2	14609.0
58°	2606.8	2650.3	2758.4	3773.1	6524.8	12895.3	20858.1	23536.2	23391.1	21938.6	14630.2
60°	1934.1	1911.6	1815.2	2153.0	3631.8	8908.8	18728.9	22594.3	23020.3	22082.5	14527.3
62.5°	1699.1	1645.1	1448.4	1426.1	1766.4	4104.0	14330.8	19354.3	20360.9	21261.9	13901.9
65°	1596.3	1538.2	1284.9	1203.1	1274.3	1736.2	8441.7	14515.4	15777.9	18773.8	12303.0
67.5°	1519.8	1444.6	1180.7	1068.5	1073.8	1147.8	3383.7	9142.2	10563.0	14254.1	9569.6
70°	1445.8	1364.0	1092.2	963.1	932.7	907.6	1345.7	4576.3	5865.3	9003.7	6101.4
72.5°	1366.7	1286.3	1014.5	879.9	820.5	737.5	878.6	1872.0	2614.6	4259.8	2767.7
75°	1252.0	1179.4	936.7	806.0	721.6	610.8	663.6	977.5	1172.7	1696.4	1333.8
77.5°	1110.8	1051.5	849.5	745.4	639.9	496.0	510.5	678.1	751.9	971.0	792.8
80°	798.1	819.3	756.0	670.1	570.0	402.4	391.8	494.6	534.3	624.1	515.7
82.5°	560.6	572.5	625.3	547.4	470.9	316.7	289.0	348.3	372.0	410.3	278.4
85°	386.5	373.3	428.8	381.2	340.4	211.1	197.8	236.2	250.6	254.6	143.8
87.5°	232.2	232.2	248.0	204.5	183.3	109.6	106.9	134.6	143.8	137.3	79.1
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°	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6	7441.6
2.5°	7461.5	7367.9	7168.7	7009.0	6807.1	6597.4	6480.1	6354.7	6268.9	6206.8	6305.9
5°	7518.3	7326.9	6915.3	6524.8	6093.6	5644.9	5304.6	4988.0	4767.7	4630.5	4759.8
7.5°	7607.9	7313.8	6658.1	5990.5	5216.2	4469.4	3801.9	3383.7	3139.8	3019.7	3094.9
10°	7710.8	7292.6	6356.0	5266.4	4158.2	3217.5	2718.9	2550.1	2494.7	2472.2	2482.7
12.5°	7796.6	7247.7	5985.2	4390.3	3122.6	2540.9	2397.0	2393.1	2404.9	2407.5	2411.5
15°	7857.3	7181.8	5435.1	3477.5	2497.3	2315.2	2307.3	2331.0	2353.5	2362.7	2368.0
17.5°	7898.2	7045.9	4813.8	2749.3	2237.4	2205.8	2224.3	2254.6	2278.3	2284.8	2290.1
20°	7894.2	6846.7	4073.8	2292.8	2096.3	2096.3	2127.9	2151.6	2153.0	2145.1	2149.0
22.5°	7853.3	6573.6	3356.1	2050.0	1970.9	1993.3	2025.0	2002.6	1910.2	1849.5	1853.6
25°	7784.7	6247.8	2741.4	1895.8	1854.8	1894.3	1885.2	1716.3	1584.4	1525.1	1525.1
27.5°	7724.0	5862.6	2269.1	1761.1	1738.7	1787.5	1624.0	1471.0	1415.5	1387.8	1378.5
30°	7680.5	5447.1	1953.8	1632.0	1629.3	1593.7	1408.9	1366.7	1357.5	1335.1	1327.2
32.5°	7691.1	5026.2	1752.0	1518.5	1527.7	1364.0	1306.0	1315.3	1307.4	1283.6	1273.1
35°	7778.2	4626.5	1620.1	1415.5	1387.8	1232.1	1245.3	1262.5	1259.9	1226.8	1216.3
37.5°	7933.8	4247.8	1533.0	1329.9	1211.0	1166.2	1187.3	1213.7	1207.1	1184.7	1176.7
40°	8097.4	3891.6	1461.7	1262.5	1106.8	1121.4	1139.8	1154.3	1160.9	1167.4	1162.2
42.5°	8257.0	3519.6	1374.6	1193.8	1063.4	1079.1	1086.9	1101.5	1137.2	1162.2	1160.9
45°	8352.0	3170.1	1284.9	1096.3	1029.0	1038.3	1033.0	1061.9	1105.5	1146.3	1147.8
47.5°	8457.5	2898.3	1213.7	1006.6	996.0	1002.6	986.8	1015.9	1055.4	1105.5	1110.8
50°	8585.6	2736.1	1156.9	935.3	951.1	951.1	947.3	973.7	1029.0	1086.9	1097.5
52.5°	8730.5	2704.3	1109.4	883.9	906.3	905.0	908.9	948.5	1009.2	1065.8	1075.2
55°	8907.4	2790.1	1058.1	845.7	862.7	868.0	881.2	926.2	977.5	1042.2	1046.2
57.5°	9113.1	2964.2	1017.2	815.3	823.1	840.4	861.5	902.3	957.8	1029.0	1033.0
58°	9147.5	3001.2	1010.6	812.6	815.3	835.1	858.8	898.3	953.8	1031.7	1035.6
60°	9148.8	3123.9	996.0	800.7	784.8	817.8	844.2	883.9	947.3	1040.9	1050.1
62.5°	8824.3	3122.6	985.5	783.6	753.3	794.2	824.6	870.6	940.6	1063.4	1081.7
65°	7770.2	2837.7	935.3	757.2	728.2	773.0	807.3	861.5	959.1	1160.9	1172.7
67.5°	6077.7	2325.8	841.6	720.4	695.2	751.9	796.7	860.1	978.9	1183.3	1191.2
70°	4018.4	1740.0	738.8	678.1	661.0	726.9	802.0	905.0	956.4	1135.8	1114.7
72.5°	2085.7	1221.5	655.7	625.3	621.4	704.5	878.6	899.7	934.0	1068.5	1042.2
75°	1094.9	848.3	583.1	567.3	573.8	699.2	1037.0	875.9	905.0	1022.5	1072.5
77.5°	670.1	684.7	521.0	514.5	527.7	683.3	1035.6	845.7	862.7	940.6	996.0
80°	448.6	555.4	473.5	474.9	484.1	625.3	930.0	798.1	811.3	889.1	945.8
82.5°	283.7	328.5	430.1	452.4	440.6	515.7	790.1	726.9	745.4	1017.2	1075.2
85°	143.8	205.8	373.3	435.4	397.1	361.5	641.1	637.2	646.4	733.5	766.4
87.5°	65.9	113.5	291.5	380.0	299.4	225.6	465.7	472.2	509.2	521.0	521.0
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)