

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: P268814

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268814
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-09-LED-U-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 31250.4 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

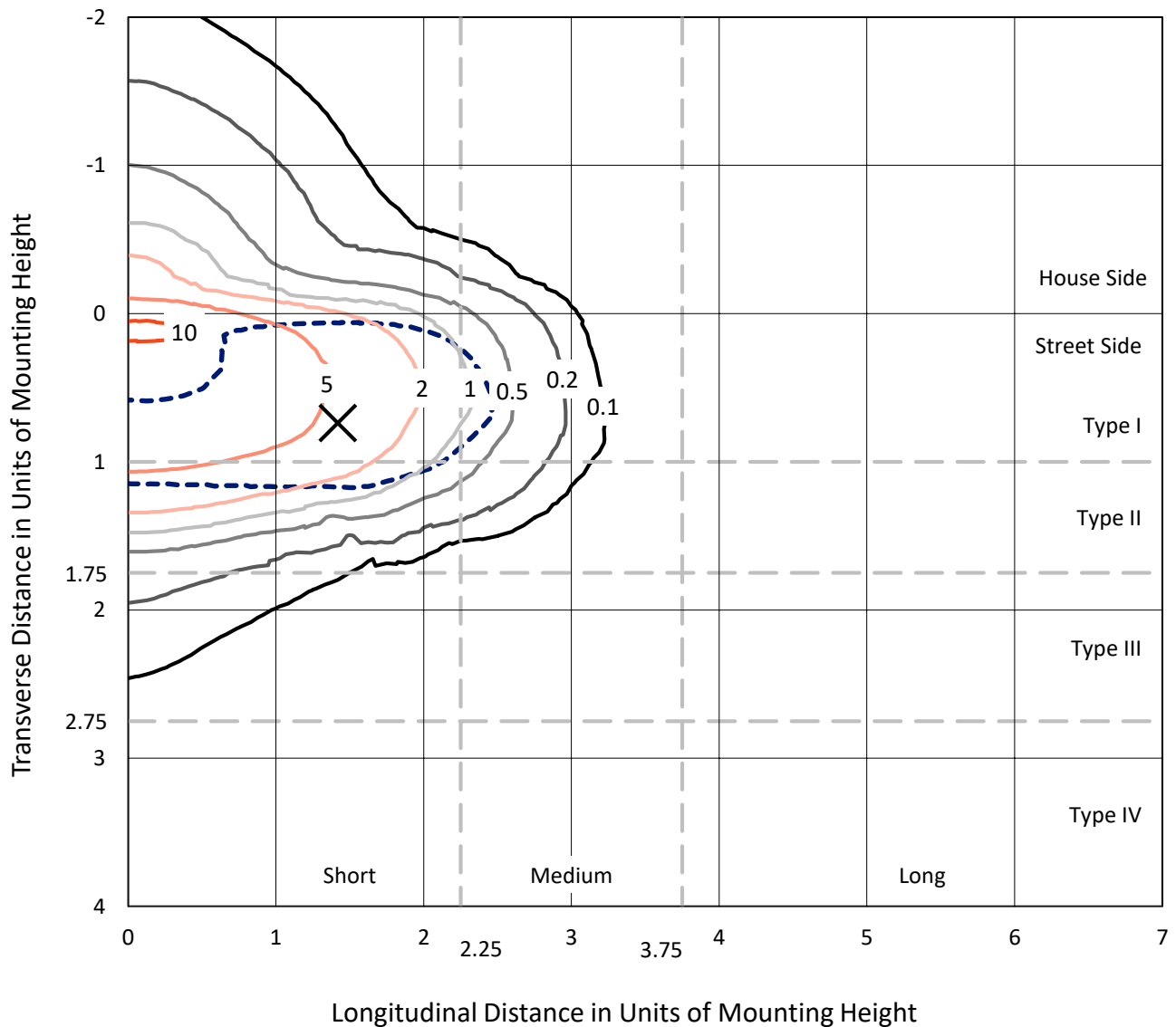
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

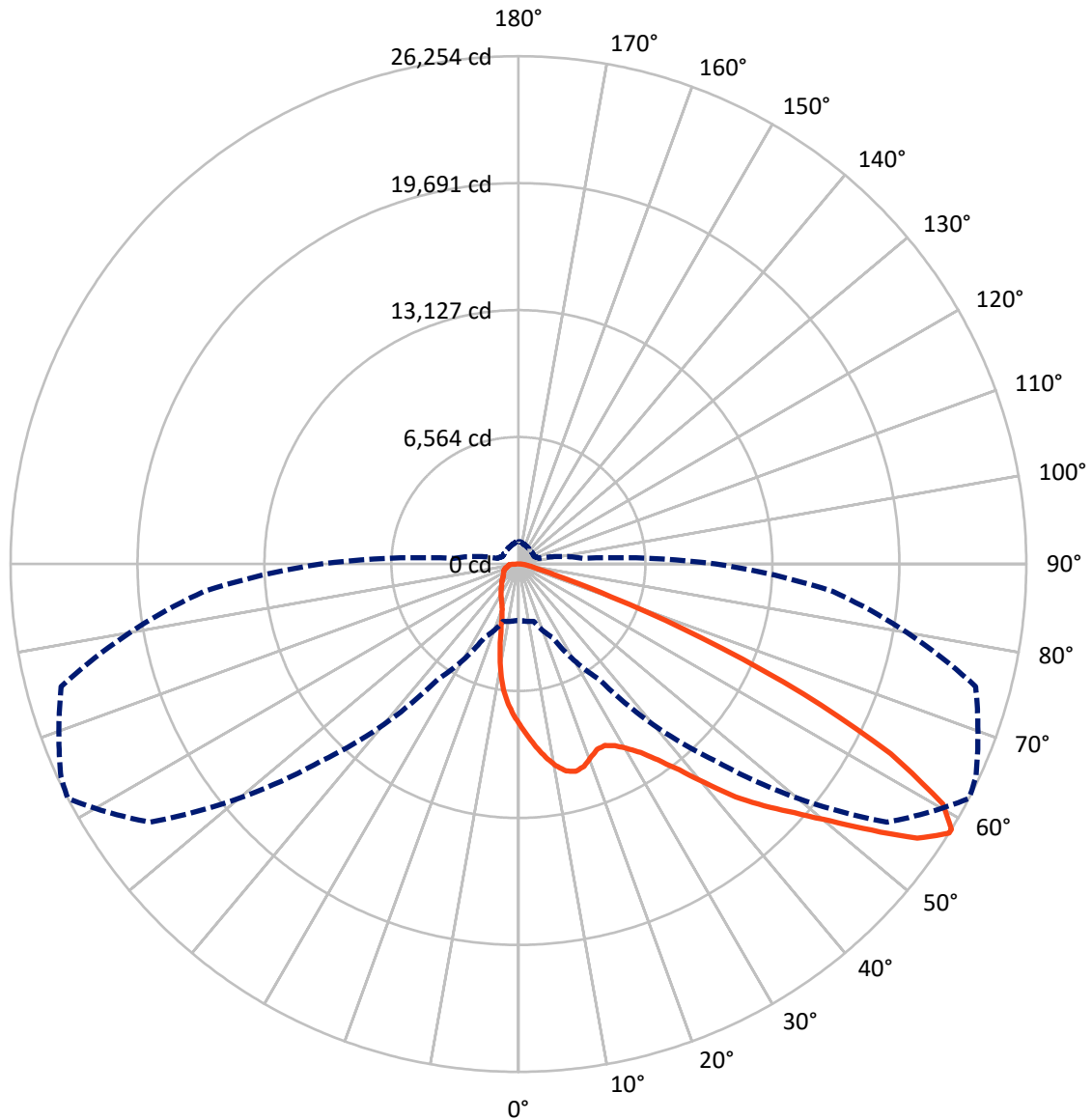
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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	4765.8	0.0	4765.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	26484.6	0.0	26484.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	31250.4	0.0	31250.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.4	2.4
10°-20°	1897.7	6.1
20°-30°	3067.7	9.8
30°-40°	4869.9	15.6
40°-50°	7125.7	22.8
50°-60°	7452.9	23.8
60°-70°	4403.2	14.1
70°-80°	1240.4	4.0
80°-90°	450.3	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°	31250.4	100.0
0°-180°	31250.4	100.0

Coefficient of Utilization



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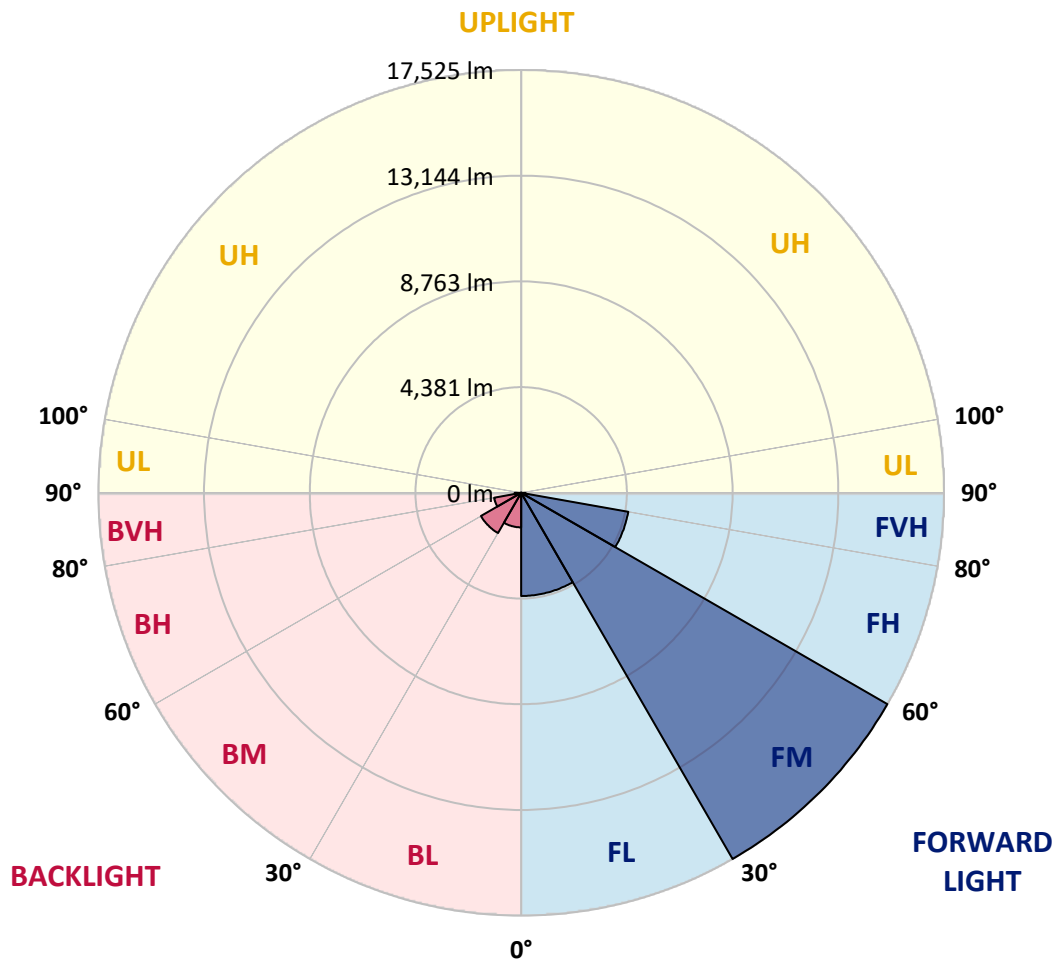
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4275.4	13.7			
FM	(30°-60°)	17525.0	56.1			
FH	(60°-80°)	4506.4	14.4			G2/5000
FVH	(80°-90°)	177.7	0.6			G2/225
BL	(0°-30°)	1432.4	4.6	B3/2500		
BM	(30°-60°)	1923.6	6.2	B2/2500		
BH	(60°-80°)	1137.2	3.6	B3/2500		G3/2500
BVH	(80°-90°)	272.7	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°	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0
2.5°	9485.7	9409.0	9360.6	9317.8	9262.0	9142.8	8982.3	8880.9	8829.4	8654.2	8446.8
5°	10415.7	10347.9	10297.9	10240.5	10140.4	9953.6	9694.6	9488.5	9387.0	9036.8	8621.8
7.5°	10197.9	10225.9	10312.6	10464.1	10593.7	10568.6	10337.6	10075.7	9941.8	9454.8	8824.9
10°	8885.2	8933.9	9083.9	9438.5	10012.5	10601.1	10780.6	10599.6	10464.1	9868.2	9033.9
12.5°	8621.8	8620.3	8632.2	8726.3	9067.8	9896.2	10795.3	10977.7	10896.8	10262.5	9247.2
15°	8729.2	8732.2	8723.4	8763.1	8869.1	9197.1	10345.1	11123.4	11180.8	10659.9	9468.0
17.5°	9011.7	9004.4	8970.6	8970.6	9008.8	9136.9	9815.2	10988.1	11253.0	11011.7	9662.2
20°	9485.7	9451.7	9362.0	9279.6	9238.3	9307.6	9597.4	10676.0	11127.8	11319.2	9822.5
22.5°	10059.5	10033.0	9887.4	9710.8	9568.0	9566.6	9709.3	10403.9	10911.5	11609.1	9958.0
25°	10801.2	10758.6	10542.1	10259.6	10009.5	9913.9	9953.6	10390.6	10793.9	11924.0	10078.7
27.5°	11672.3	11594.3	11338.2	10930.7	10562.8	10370.0	10312.6	10630.5	10901.2	12314.0	10246.3
30°	12729.0	12639.2	12311.0	11779.7	11260.3	10944.0	10821.8	11055.8	11257.4	12789.3	10515.6
32.5°	13931.2	13801.6	13422.0	12836.3	12153.6	11670.9	11472.3	11617.9	11778.2	13361.7	10852.8
35°	15592.6	15438.0	14889.1	14081.3	13310.1	12646.5	12328.7	12434.6	12590.6	14215.1	11339.8
37.5°	16725.6	16656.6	16291.5	15532.2	14693.4	13929.7	13438.3	13500.0	13588.3	15282.1	11963.6
40°	16715.3	16743.2	16750.7	16758.1	16187.1	15455.7	14927.5	14862.6	14845.0	16453.4	12673.0
42.5°	15878.0	15992.9	16363.6	17115.6	17463.0	17127.4	16643.3	16456.4	16363.6	17833.7	13425.0
45°	14596.3	14658.2	15352.8	16821.3	18116.3	18782.9	18416.5	17827.9	17660.0	19102.2	14049.0
47.5°	13935.5	14003.3	14440.3	16041.5	18108.9	20120.5	20332.4	19211.2	18910.8	20205.8	14587.4
50°	12362.6	12503.8	13054.1	14684.7	17448.1	20735.7	22335.2	20859.3	20238.3	21280.0	15127.5
52.5°	9473.9	9691.6	10308.2	12453.7	15772.1	20431.1	23937.8	22857.6	21980.5	22392.6	15591.2
55°	5976.0	6137.8	6655.8	8795.5	12617.1	18846.3	24545.5	25019.4	24239.4	23446.2	15992.9
57.5°	3249.2	3321.4	3515.5	4856.1	8206.8	15342.4	23659.6	26249.6	25925.9	24341.0	16296.0
58°	2907.9	2956.3	3077.1	4208.6	7278.2	14384.4	23266.7	26254.0	26092.1	24471.8	16319.5
60°	2157.3	2132.2	2024.9	2401.6	4051.1	9937.4	20891.6	25203.2	25678.6	24632.3	16204.7
62.5°	1895.3	1835.0	1615.8	1590.8	1970.4	4578.0	15985.5	21589.1	22711.9	23717.1	15507.3
65°	1780.6	1715.9	1433.2	1342.1	1421.5	1936.6	9416.5	16191.5	17599.8	20941.6	13723.6
67.5°	1695.2	1611.4	1317.0	1192.0	1197.8	1280.3	3774.5	10197.9	11782.7	15900.1	10674.6
70°	1612.8	1521.5	1218.5	1074.3	1040.3	1012.4	1501.0	5104.8	6542.5	10043.3	6805.9
72.5°	1524.6	1434.8	1131.7	981.5	915.4	822.6	980.1	2088.1	2916.5	4751.7	3087.4
75°	1396.5	1315.6	1044.8	899.2	804.9	681.4	740.3	1090.5	1308.2	1892.4	1487.8
77.5°	1239.0	1172.8	947.7	831.4	713.8	553.3	569.4	756.4	838.7	1083.0	884.4
80°	890.3	913.8	843.1	747.6	635.7	448.9	437.0	551.7	595.9	696.0	575.4
82.5°	625.4	638.6	697.5	610.7	525.4	353.2	322.3	388.4	414.9	457.6	310.5
85°	431.1	416.5	478.3	425.3	379.7	235.4	220.8	263.5	279.6	284.0	160.3
87.5°	259.0	259.0	276.7	228.1	204.5	122.1	119.1	150.0	160.3	153.0	88.4
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°	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0	8301.0
2.5°	8323.1	8218.7	7996.4	7818.4	7593.3	7359.3	7228.2	7088.4	6992.9	6923.6	7034.0
5°	8386.3	8173.0	7713.8	7278.2	6797.0	6296.8	5917.1	5563.9	5318.1	5165.2	5309.3
7.5°	8486.5	8158.2	7426.9	6682.3	5818.5	4985.7	4241.0	3774.5	3502.3	3368.4	3452.2
10°	8601.2	8134.7	7090.0	5874.5	4638.3	3589.1	3032.9	2844.6	2782.7	2757.6	2769.5
12.5°	8696.9	8084.7	6676.5	4897.3	3483.2	2834.2	2673.8	2669.5	2682.7	2685.7	2690.1
15°	8764.6	8011.2	6062.8	3879.1	2785.6	2582.5	2573.7	2600.2	2625.2	2635.5	2641.5
17.5°	8810.1	7859.6	5369.7	3066.8	2495.8	2460.5	2480.9	2514.8	2541.3	2548.8	2554.6
20°	8805.7	7637.4	4544.2	2557.6	2338.3	2338.3	2373.6	2400.1	2401.6	2392.7	2397.1
22.5°	8760.1	7332.8	3743.6	2286.7	2198.5	2223.6	2258.9	2233.8	2130.8	2063.0	2067.4
25°	8683.6	6969.3	3057.9	2114.6	2068.9	2113.2	2102.8	1914.5	1767.3	1701.1	1701.1
27.5°	8616.0	6539.7	2531.1	1964.6	1939.5	1994.0	1811.5	1640.8	1579.0	1548.0	1537.8
30°	8567.3	6076.0	2179.4	1820.3	1817.5	1777.7	1571.7	1524.6	1514.3	1489.2	1480.3
32.5°	8579.2	5606.6	1954.3	1693.8	1704.1	1521.5	1456.8	1467.1	1458.3	1431.8	1420.0
35°	8676.3	5160.8	1807.1	1579.0	1548.0	1374.4	1389.1	1408.3	1405.3	1368.6	1356.8
37.5°	8849.9	4738.4	1710.0	1483.3	1351.0	1300.8	1324.5	1353.8	1346.5	1321.4	1312.7
40°	9032.4	4341.1	1630.5	1408.3	1234.6	1250.8	1271.5	1287.6	1294.9	1302.4	1296.4
42.5°	9210.4	3926.1	1533.3	1331.7	1186.0	1203.6	1212.5	1228.7	1268.4	1296.4	1294.9
45°	9316.4	3536.2	1433.2	1222.9	1147.9	1158.2	1152.3	1184.7	1233.2	1278.7	1280.3
47.5°	9434.1	3233.0	1353.8	1122.8	1111.1	1118.4	1100.8	1133.1	1177.3	1233.2	1239.0
50°	9576.9	3052.0	1290.5	1043.3	1061.0	1061.0	1056.5	1086.1	1147.9	1212.5	1224.3
52.5°	9738.7	3016.7	1237.5	985.9	1011.0	1009.4	1013.8	1058.1	1125.8	1188.9	1199.2
55°	9936.0	3112.4	1180.3	943.3	962.4	968.4	982.9	1033.1	1090.5	1162.5	1167.0
57.5°	10165.5	3306.7	1134.6	909.4	918.2	937.4	960.9	1006.6	1068.4	1147.9	1152.3
58°	10203.8	3347.8	1127.3	906.5	909.4	931.5	958.0	1002.1	1064.0	1150.8	1155.2
60°	10205.3	3484.6	1111.1	893.3	875.6	912.4	941.9	985.9	1056.5	1161.1	1171.4
62.5°	9843.2	3483.2	1099.3	874.1	840.3	885.9	919.8	971.2	1049.2	1186.0	1206.7
65°	8667.4	3165.3	1043.3	844.6	812.2	862.4	900.6	960.9	1069.8	1294.9	1308.2
67.5°	6779.5	2594.3	938.9	803.4	775.4	838.7	888.9	959.5	1091.9	1320.0	1328.9
70°	4482.4	1941.0	824.0	756.4	737.2	810.8	894.7	1009.4	1066.8	1267.0	1243.4
72.5°	2326.5	1362.6	731.4	697.5	693.1	785.7	980.1	1003.5	1041.9	1192.0	1162.5
75°	1221.3	946.3	650.5	632.8	640.1	779.9	1156.7	977.0	1009.4	1140.5	1196.4
77.5°	747.6	763.6	581.3	573.8	588.6	762.2	1155.2	943.3	962.4	1049.2	1111.1
80°	500.4	619.6	528.4	529.8	540.1	697.5	1037.5	890.3	905.0	991.8	1055.1
82.5°	316.5	366.4	479.8	504.8	491.6	575.4	881.4	810.8	831.4	1134.6	1199.2
85°	160.3	229.5	416.5	485.7	443.0	403.2	715.2	710.7	721.1	818.1	854.9
87.5°	73.7	126.5	325.1	423.8	334.0	251.6	519.5	526.9	568.0	581.3	581.3
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)