

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: P268894

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268894
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-10-LED-U-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 34599.2 lumens
Efficiency: N/A
Efficacy: 107.1 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): 323
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

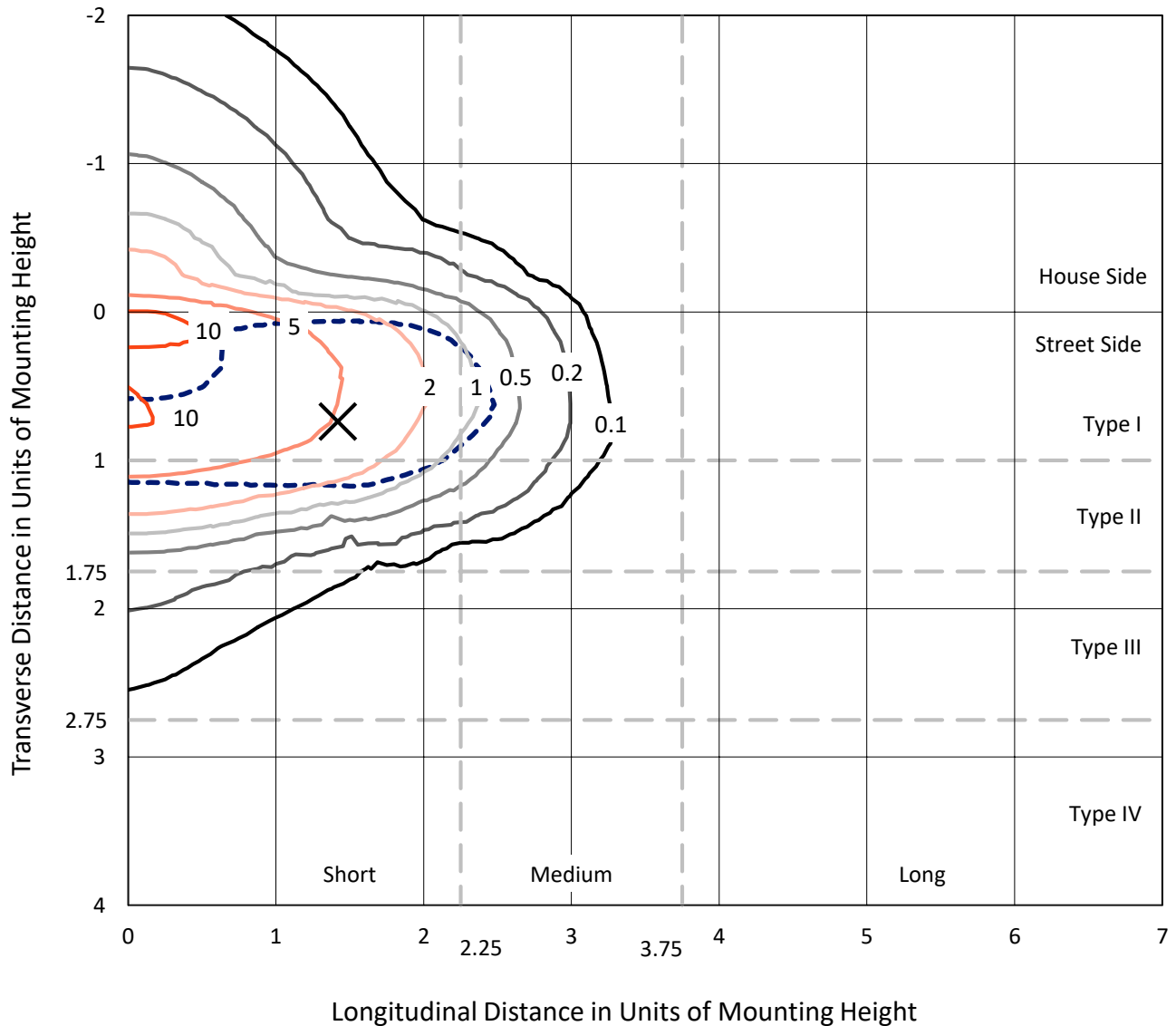


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Iso-Footcandle Lines of Horizontal Illumination

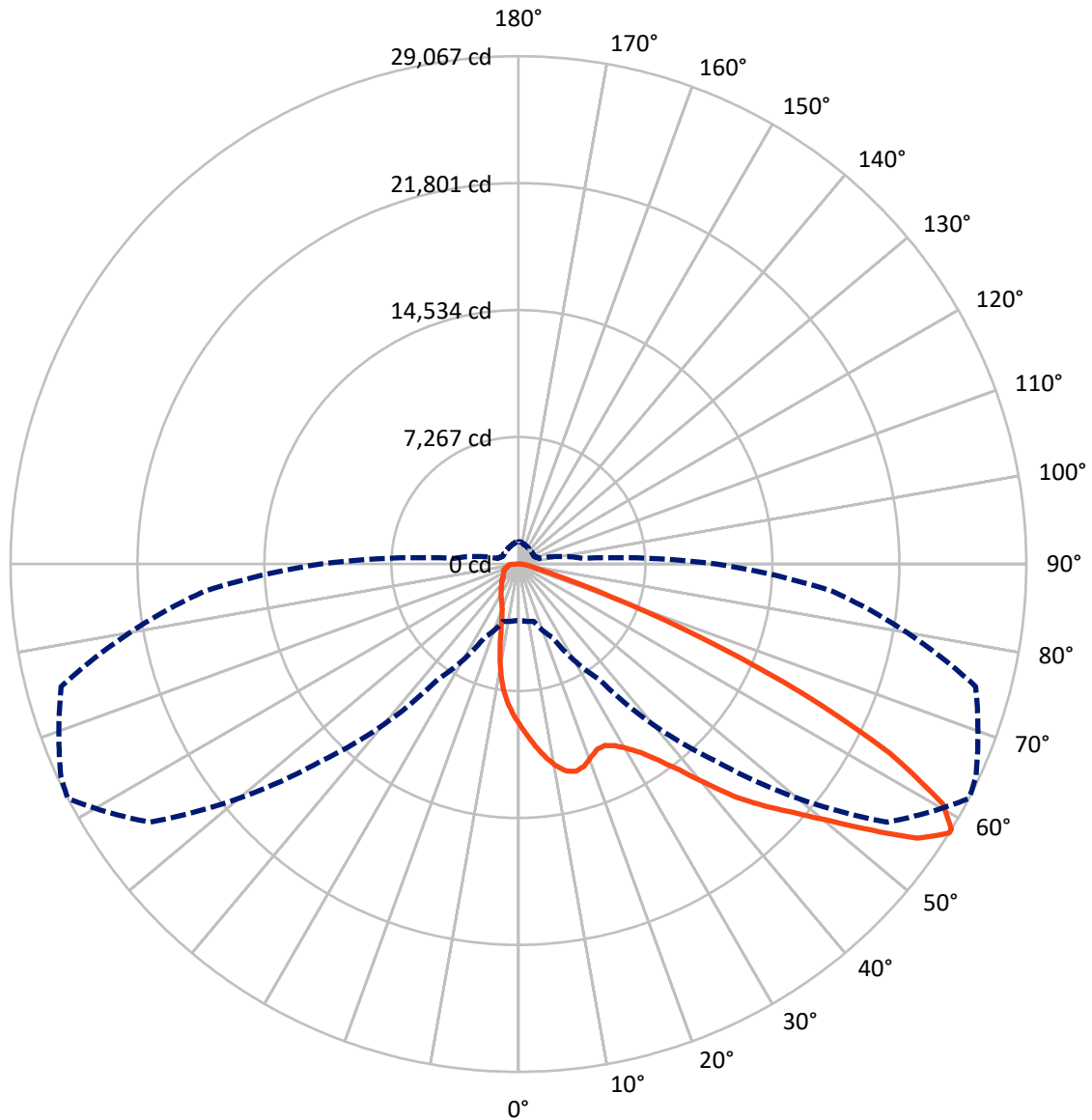
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 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	5276.5	0.0	5276.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29322.7	0.0	29322.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	34599.2	0.0	34599.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.0	2.4
10°-20°	2101.1	6.1
20°-30°	3396.4	9.8
30°-40°	5391.8	15.6
40°-50°	7889.3	22.8
50°-60°	8251.6	23.8
60°-70°	4875.0	14.1
70°-80°	1373.3	4.0
80°-90°	498.6	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°	34599.2	100.0
0°-180°	34599.2	100.0



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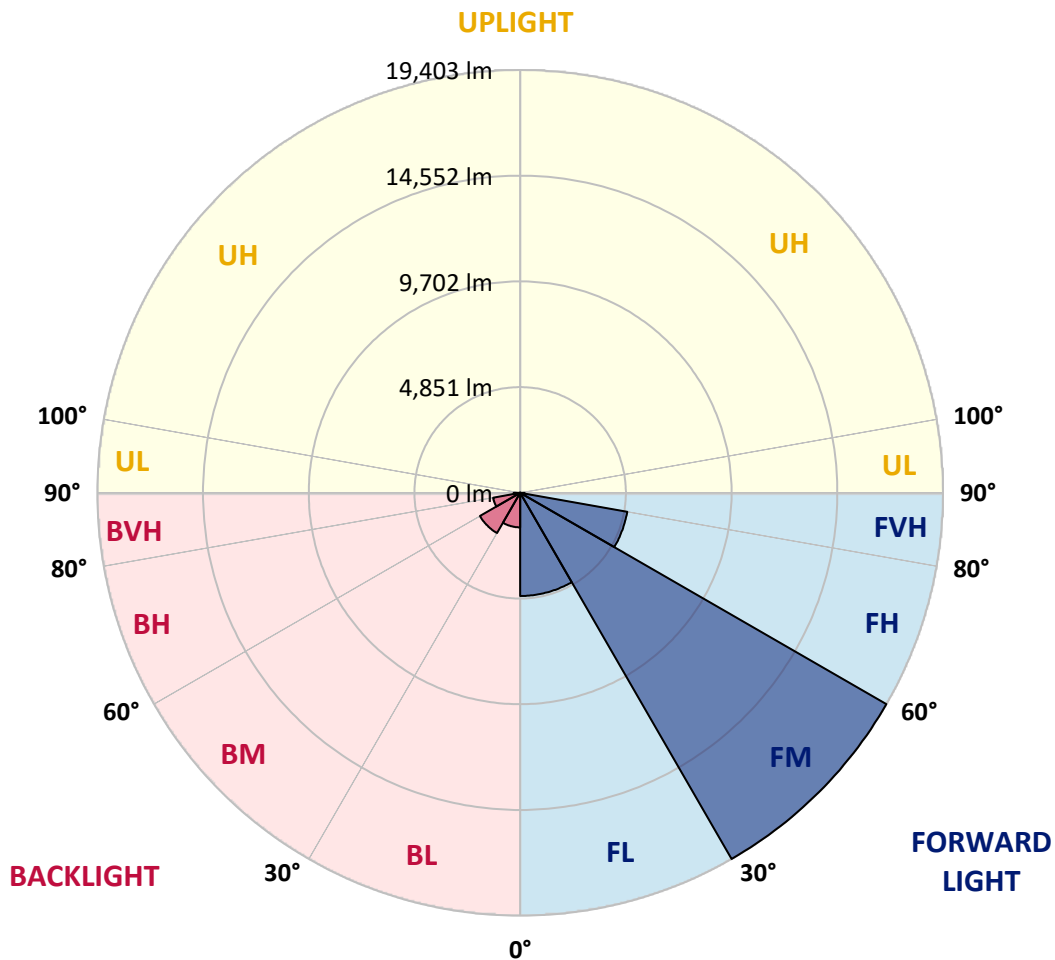
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4733.6	13.7			
FM	(30°-60°)	19403.0	56.1			
FH	(60°-80°)	4989.3	14.4			G2/5000
FVH	(80°-90°)	196.7	0.6			G2/225
BL	(0°-30°)	1585.9	4.6	B3/2500		
BM	(30°-60°)	2129.7	6.2	B2/2500		
BH	(60°-80°)	1259.0	3.6	B3/2500		G3/2500
BVH	(80°-90°)	301.9	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°	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6
2.5°	10502.2	10417.4	10363.7	10316.3	10254.4	10122.6	9944.9	9832.5	9775.4	9581.6	9351.9
5°	11531.8	11456.9	11401.5	11337.9	11227.1	11020.1	10733.5	10505.4	10392.9	10005.2	9545.7
7.5°	11290.6	11321.6	11417.7	11585.6	11728.9	11701.2	11445.5	11155.4	11007.2	10467.9	9770.5
10°	9837.3	9891.1	10057.3	10450.0	11085.4	11737.1	11935.9	11735.5	11585.6	10925.7	10001.9
12.5°	9545.7	9544.1	9557.2	9661.5	10039.4	10956.6	11952.2	12154.2	12064.5	11362.3	10238.2
15°	9664.7	9668.0	9658.1	9702.1	9819.5	10182.7	11453.6	12315.5	12379.1	11802.2	10482.5
17.5°	9977.5	9969.3	9931.9	9931.9	9974.2	10116.0	10867.1	12165.6	12458.9	12191.6	10697.6
20°	10502.2	10464.6	10365.3	10274.0	10228.5	10304.9	10626.0	11820.2	12320.3	12532.2	10875.2
22.5°	11137.5	11108.3	10946.8	10751.4	10593.4	10591.7	10749.7	11518.7	12080.9	12853.0	11025.1
25°	11958.6	11911.4	11671.9	11359.1	11082.1	10976.2	11020.1	11504.1	11950.5	13201.9	11158.7
27.5°	12923.1	12836.8	12553.4	12102.1	11694.8	11481.2	11417.7	11769.7	12069.4	13633.5	11344.4
30°	14093.0	13993.5	13630.3	13042.1	12466.9	12116.7	11981.5	12240.6	12463.8	14159.8	11642.7
32.5°	15424.1	15280.7	14860.3	14211.8	13455.9	12921.5	12701.6	12862.9	13040.4	14793.6	12015.6
35°	17263.4	17092.4	16484.6	15590.3	14736.5	14001.7	13649.8	13767.2	13939.8	15738.6	12554.9
37.5°	18518.0	18441.5	18037.3	17196.7	16268.0	15422.5	14878.3	14946.7	15044.5	16919.7	13245.8
40°	18506.6	18537.6	18545.7	18553.9	17921.6	17112.0	16527.0	16455.3	16435.7	18216.5	14031.0
42.5°	17579.6	17706.6	18117.1	18949.7	19334.2	18962.9	18426.8	18219.9	18117.1	19744.8	14863.5
45°	16160.5	16228.9	16997.9	18623.9	20057.6	20795.7	20390.0	19738.3	19552.6	21149.2	15554.4
47.5°	15429.0	15503.8	15987.8	17760.4	20049.5	22276.7	22511.3	21269.8	20937.4	22371.2	16150.6
50°	13687.2	13843.7	14453.0	16258.2	19318.0	22957.7	24728.7	23094.5	22407.1	23560.4	16748.5
52.5°	10489.1	10730.3	11412.8	13788.4	17462.2	22620.4	26503.0	25307.1	24336.1	24792.2	17261.8
55°	6616.3	6795.6	7369.1	9737.9	13969.2	20865.7	27175.9	27700.5	26837.0	25958.7	17706.6
57.5°	3597.4	3677.2	3892.3	5376.5	9086.3	16986.5	26194.9	29062.4	28704.0	26949.3	18042.3
58°	3219.3	3273.2	3406.7	4659.7	8058.2	15926.0	25759.9	29067.4	28888.1	27094.4	18068.2
60°	2388.5	2360.7	2241.8	2659.0	4485.2	11002.4	23130.4	27904.1	28430.3	27272.0	17941.3
62.5°	2098.5	2031.6	1789.0	1761.1	2181.5	5068.5	17698.4	23902.6	25145.7	26258.5	17168.9
65°	1971.4	1899.6	1586.9	1485.8	1573.8	2144.1	10425.5	17926.5	19485.8	23185.8	15194.3
67.5°	1876.9	1784.0	1458.2	1319.7	1326.2	1417.4	4179.1	11290.6	13045.4	17603.9	11818.6
70°	1785.7	1684.6	1349.1	1189.4	1151.8	1120.9	1661.9	5651.9	7243.7	11119.6	7535.3
72.5°	1687.8	1588.6	1252.9	1086.7	1013.4	910.7	1085.2	2311.9	3229.1	5260.8	3418.1
75°	1546.2	1456.5	1156.7	995.5	891.2	754.3	819.6	1207.2	1448.3	2095.1	1647.1
77.5°	1371.8	1298.5	1049.2	920.6	790.1	612.6	630.5	837.4	928.7	1199.1	979.2
80°	985.7	1011.9	933.6	827.7	703.8	496.9	483.8	610.9	659.9	770.7	637.1
82.5°	692.5	707.1	772.3	676.2	581.7	391.0	356.7	430.1	459.5	506.7	343.8
85°	477.4	461.1	529.6	470.8	420.3	260.7	244.3	291.6	309.6	314.4	177.5
87.5°	286.7	286.7	306.3	252.6	226.5	135.3	132.1	166.1	177.5	169.4	97.7
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°	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6	9190.6
2.5°	9215.1	9099.3	8853.3	8656.2	8406.9	8147.8	8002.8	7848.0	7742.1	7665.5	7787.8
5°	9285.2	9048.8	8540.5	8058.2	7525.6	6971.6	6551.2	6160.1	5888.1	5718.6	5878.2
7.5°	9395.8	9032.5	8222.7	7398.4	6442.0	5519.8	4695.5	4179.1	3877.7	3729.4	3822.2
10°	9522.9	9006.4	7849.7	6504.0	5135.4	3973.7	3357.9	3149.4	3080.8	3053.2	3066.3
12.5°	9628.8	8951.2	7392.0	5422.1	3856.5	3137.9	2960.4	2955.5	2970.2	2973.4	2978.3
15°	9703.9	8869.7	6712.5	4294.6	3084.2	2859.3	2849.6	2878.9	2906.6	2918.0	2924.5
17.5°	9754.2	8701.8	5945.2	3395.4	2763.1	2724.1	2746.8	2784.3	2813.8	2821.8	2828.4
20°	9749.5	8455.7	5031.0	2831.6	2588.8	2588.8	2628.0	2657.2	2659.0	2649.1	2654.0
22.5°	9698.9	8118.5	4144.8	2531.9	2434.0	2461.7	2500.9	2473.3	2359.2	2284.2	2289.2
25°	9614.2	7716.1	3385.5	2341.3	2290.7	2339.5	2328.1	2119.6	1956.7	1883.3	1883.3
27.5°	9539.2	7240.3	2802.4	2175.1	2147.4	2207.7	2005.6	1816.6	1748.2	1714.0	1702.6
30°	9485.5	6727.1	2412.8	2015.3	2012.2	1968.1	1740.0	1687.8	1676.4	1648.7	1639.0
32.5°	9498.5	6207.4	2163.7	1875.2	1886.7	1684.6	1612.9	1624.3	1614.6	1585.2	1572.3
35°	9606.0	5713.8	2000.7	1748.2	1714.0	1521.6	1538.0	1559.2	1556.0	1515.3	1502.1
37.5°	9798.4	5246.2	1893.2	1642.3	1495.7	1440.3	1466.4	1498.9	1490.7	1463.1	1453.3
40°	10000.3	4806.3	1805.2	1559.2	1367.0	1384.8	1407.6	1425.6	1433.8	1441.9	1435.3
42.5°	10197.4	4346.8	1697.6	1474.5	1313.1	1332.7	1342.4	1360.5	1404.4	1435.3	1433.8
45°	10314.8	3915.1	1586.9	1353.8	1270.8	1282.2	1275.8	1311.5	1365.3	1415.8	1417.4
47.5°	10445.1	3579.4	1498.9	1243.2	1230.0	1238.3	1218.7	1254.6	1303.4	1365.3	1371.8
50°	10603.1	3379.1	1428.8	1155.1	1174.7	1174.7	1169.9	1202.4	1270.8	1342.4	1355.5
52.5°	10782.4	3340.0	1370.2	1091.6	1119.3	1117.6	1122.5	1171.4	1246.4	1316.5	1327.9
55°	11000.6	3445.9	1306.7	1044.4	1065.5	1072.0	1088.3	1143.7	1207.2	1287.1	1292.0
57.5°	11254.9	3661.0	1256.1	1006.9	1016.6	1037.8	1064.0	1114.3	1182.8	1270.8	1275.8
58°	11297.2	3706.5	1247.9	1003.6	1006.9	1031.3	1060.7	1109.4	1177.9	1274.1	1278.9
60°	11298.8	3858.0	1230.0	988.9	969.5	1010.1	1042.8	1091.6	1169.9	1285.5	1296.9
62.5°	10898.0	3856.5	1217.1	967.7	930.4	980.8	1018.3	1075.4	1161.7	1313.1	1336.0
65°	9596.2	3504.5	1155.1	935.1	899.4	954.8	997.1	1064.0	1184.4	1433.8	1448.3
67.5°	7506.0	2872.4	1039.5	889.6	858.6	928.7	984.1	1062.2	1208.8	1461.5	1471.2
70°	4962.6	2148.9	912.4	837.4	816.3	897.8	990.7	1117.6	1181.2	1402.8	1376.7
72.5°	2575.8	1508.7	809.7	772.3	767.4	870.0	1085.2	1111.2	1153.6	1319.7	1287.1
75°	1352.3	1047.7	720.1	700.6	708.8	863.5	1280.5	1081.7	1117.6	1262.7	1324.6
77.5°	827.7	845.6	643.5	635.5	651.7	844.0	1278.9	1044.4	1065.5	1161.7	1230.0
80°	554.0	685.9	584.8	586.6	597.9	772.3	1148.7	985.7	1002.0	1098.1	1168.2
82.5°	350.2	405.7	531.2	558.8	544.2	637.1	975.9	897.8	920.6	1256.1	1327.9
85°	177.5	254.2	461.1	537.6	490.5	446.4	791.9	786.9	798.4	905.9	946.6
87.5°	81.4	140.1	360.1	469.3	369.8	278.7	575.2	583.3	629.0	643.5	643.5
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)