

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: P191381

Luminaire Tested: **GAN-AF-03-LED-U-T2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20011 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

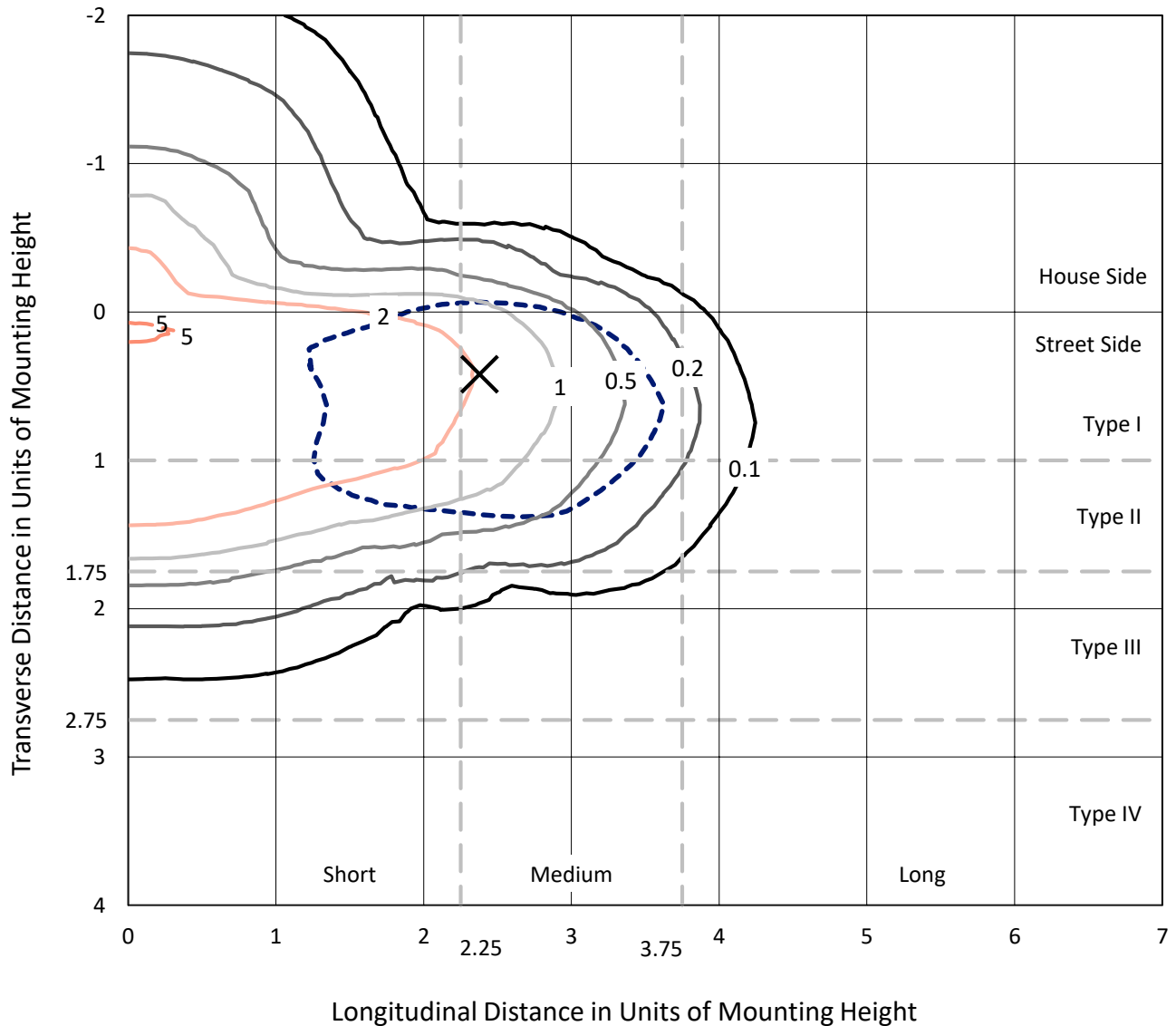
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

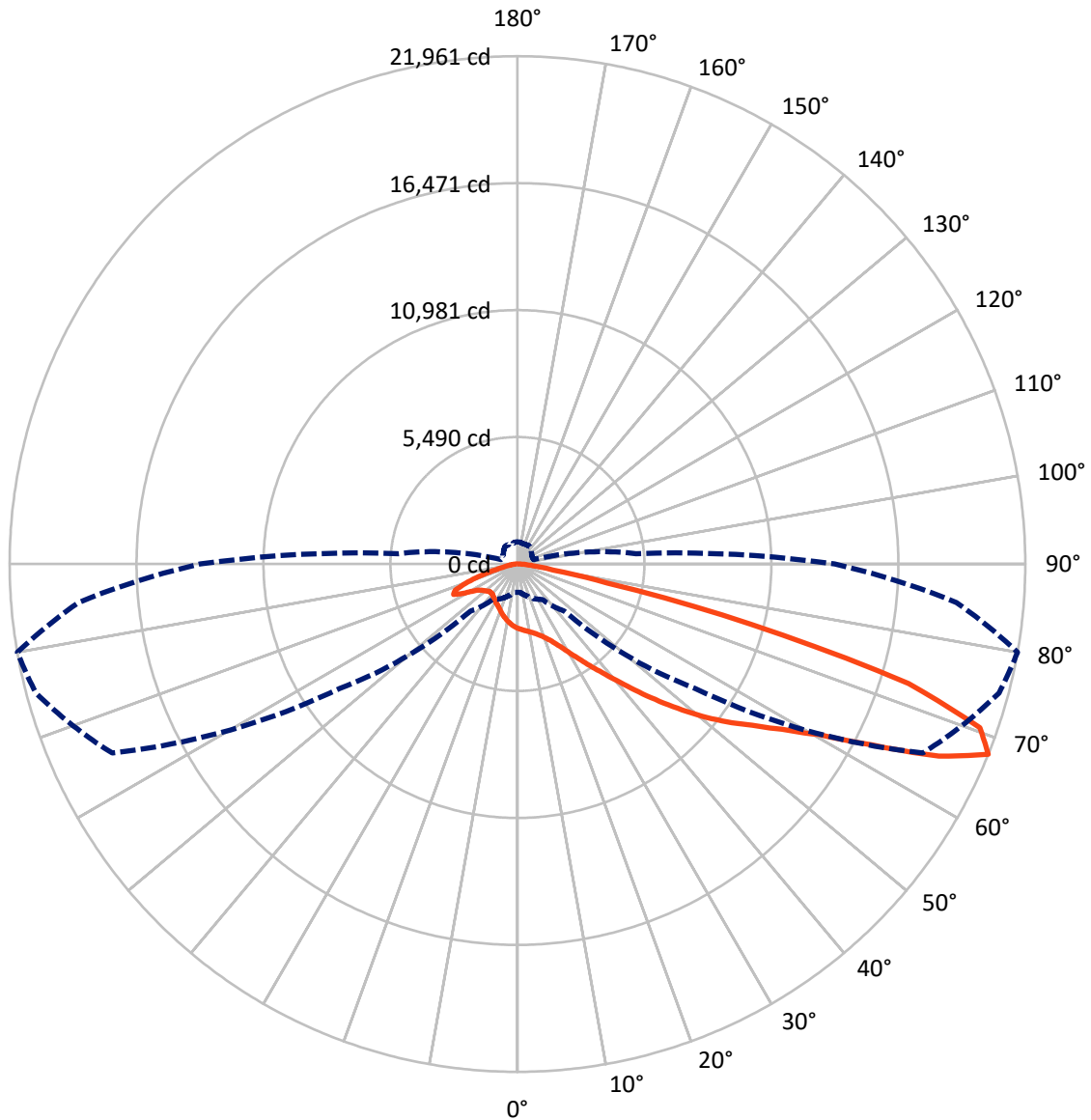
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3685.3	0.0	3685.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	16325.7	0.0	16325.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	20011.0	0.0	20011.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	1.3
10°-20°	738.8	3.7
20°-30°	1222.8	6.1
30°-40°	2000.2	10.0
40°-50°	3229.5	16.1
50°-60°	4662.5	23.3
60°-70°	5145.4	25.7
70°-80°	2371.7	11.9
80°-90°	383.6	1.9
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°	20011.0	100.0
0°-180°	20011.0	100.0



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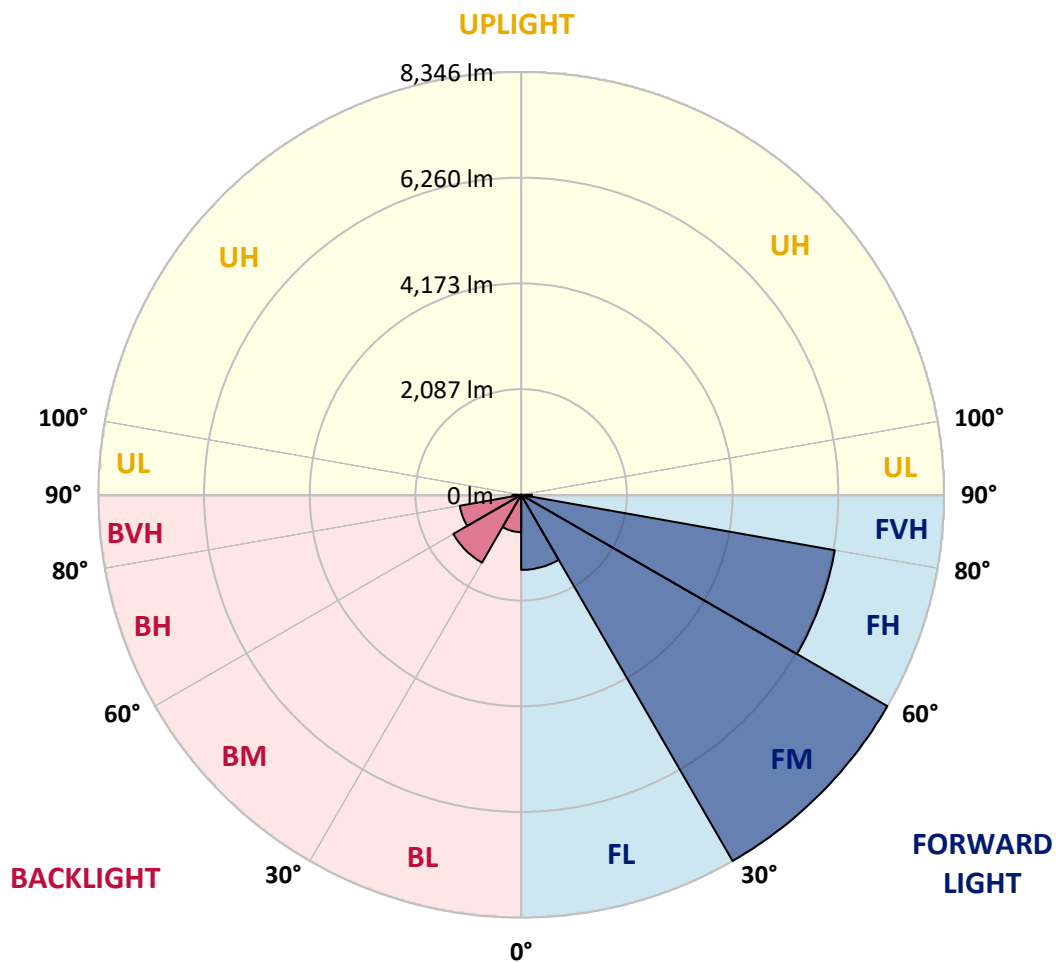
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.8	7.4			
FM (30°-60°)	8346.1	41.7			
FH (60°-80°)	6286.0	31.4			G3/7500
FVH (80°-90°)	210.9	1.1			G2/225
BL (0°-30°)	735.3	3.7	B2/1000		
BM (30°-60°)	1546.2	7.7	B2/2500		
BH (60°-80°)	1231.1	6.2	B3/2500		G3/2500
BVH (80°-90°)	172.7	0.9			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1
2.5°	3041.1	3023.4	3026.4	3021.5	3006.7	2981.1	2953.5	2903.2	2851.1	2823.4	2801.8
5°	3295.3	3290.4	3283.5	3267.7	3230.3	3177.1	3111.1	3022.4	2926.9	2876.6	2828.4
7.5°	3485.5	3482.5	3473.6	3463.8	3427.4	3363.4	3263.8	3137.7	2998.8	2929.8	2855.0
10°	3501.3	3506.2	3513.0	3539.6	3544.6	3510.2	3408.7	3256.0	3073.7	2985.0	2889.4
12.5°	3367.2	3378.1	3404.7	3472.7	3544.6	3587.0	3534.7	3380.0	3161.3	3054.0	2932.8
15°	3190.0	3195.8	3228.3	3321.9	3451.0	3582.1	3631.3	3517.0	3274.7	3142.6	2997.9
17.5°	3114.1	3117.0	3139.6	3201.7	3321.9	3509.1	3685.5	3665.7	3413.6	3253.0	3077.6
20°	3075.6	3082.6	3115.1	3176.2	3252.0	3415.5	3693.4	3826.3	3579.1	3390.9	3178.1
22.5°	3185.0	3182.1	3193.9	3224.4	3288.5	3387.0	3687.4	3991.9	3789.9	3568.3	3309.1
25°	3440.2	3451.0	3430.3	3395.8	3416.6	3485.5	3718.9	4171.2	4054.0	3795.8	3480.6
27.5°	3803.6	3792.8	3762.3	3681.5	3639.1	3668.7	3823.4	4364.2	4382.0	4095.3	3707.2
30°	4166.2	4157.4	4127.8	4029.3	3942.6	3918.0	4026.3	4585.9	4773.1	4454.8	3984.9
32.5°	4542.5	4532.7	4505.1	4406.6	4302.1	4245.0	4315.0	4842.0	5234.1	4884.4	4312.0
35°	5006.5	4987.8	4929.7	4792.7	4690.3	4645.9	4678.5	5164.2	5766.1	5392.7	4709.1
37.5°	5443.0	5471.6	5412.4	5223.3	5090.3	5074.6	5111.0	5557.3	6339.4	5961.1	5165.2
40°	5881.4	5886.3	5833.1	5678.4	5541.5	5515.9	5607.5	6034.1	7016.3	6640.9	5719.8
42.5°	6334.5	6344.4	6254.7	6111.9	6011.4	6016.4	6120.7	6592.6	7792.5	7441.9	6358.2
45°	6871.5	6886.2	6787.7	6600.5	6508.9	6693.2	6649.8	7219.2	8643.7	8352.1	7091.1
47.5°	7433.0	7455.7	7380.8	7205.5	7091.1	7344.3	7178.9	7913.8	9559.9	9328.4	7896.1
50°	7739.3	7771.9	7844.8	7832.0	7807.4	7765.0	7768.9	8658.6	10504.7	10345.1	8723.5
52.5°	7574.8	7573.8	7839.9	8162.9	8507.8	8533.5	8488.0	9443.7	11387.4	11339.1	9502.8
55°	6822.2	6873.4	7276.4	7901.9	8843.7	9431.9	9565.8	10343.2	12254.3	12310.5	10293.9
57.5°	5569.0	5611.4	6155.2	7027.1	8390.5	9965.8	11098.7	11650.4	13223.7	13485.8	11347.0
60°	3777.0	3828.3	4404.6	5451.8	7171.0	9668.3	12557.7	13983.3	14384.2	14980.3	12824.7
62.5°	2219.6	2265.8	2735.8	3439.2	5048.9	8286.1	13198.1	17302.3	16227.5	17235.3	15078.8
65°	1528.0	1559.5	1788.0	2140.7	2901.3	5580.9	12404.1	19593.7	19063.7	20029.2	17692.3
67.5°	1229.5	1225.5	1406.8	1647.2	1867.8	2877.7	9379.6	19334.6	21558.2	21961.0	19049.0
70°	1012.7	1008.8	1131.9	1331.0	1492.5	1620.6	5109.0	16316.2	21049.8	21213.3	17799.8
72.5°	847.2	851.2	930.0	1077.8	1224.6	1220.6	2245.2	11478.0	16559.4	17690.4	14189.1
75°	715.2	717.2	769.4	873.8	994.0	983.2	1217.6	6218.3	9626.0	10413.1	7865.5
77.5°	608.9	610.8	644.3	702.5	788.1	784.2	888.6	2686.5	4015.5	3966.2	2690.5
80°	542.8	542.8	558.6	569.4	616.7	598.9	659.1	1290.6	1697.4	1567.4	1073.8
82.5°	425.5	427.6	524.1	520.2	485.7	463.0	463.0	760.6	899.5	831.5	628.5
85°	239.4	238.4	337.9	407.9	427.6	326.1	323.2	425.5	489.6	431.5	304.4
87.5°	102.5	104.4	156.6	181.3	242.3	203.0	200.0	219.7	249.3	215.7	140.9
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°	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1	2780.1
2.5°	2781.1	2755.5	2699.4	2629.4	2566.3	2524.9	2487.5	2433.3	2436.3	2398.8	2371.3
5°	2779.2	2726.0	2595.8	2441.2	2292.4	2185.0	2104.3	2031.4	2013.7	1979.2	1958.4
7.5°	2781.1	2694.4	2475.6	2228.4	2044.2	1908.2	1839.3	1800.9	1792.0	1780.1	1781.2
10°	2788.0	2665.8	2343.7	2029.4	1836.3	1746.7	1729.9	1741.8	1755.6	1759.5	1760.5
12.5°	2803.7	2640.2	2198.8	1852.1	1706.3	1678.7	1707.3	1747.7	1774.3	1787.1	1786.1
15°	2839.2	2620.5	2059.9	1713.1	1634.4	1649.1	1702.4	1759.5	1797.9	1815.6	1816.7
17.5°	2877.7	2592.0	1917.1	1606.7	1581.2	1618.6	1684.6	1751.6	1798.9	1818.6	1822.5
20°	2927.9	2556.5	1767.4	1527.0	1530.9	1573.3	1635.4	1702.4	1754.6	1771.3	1779.2
22.5°	2993.9	2518.1	1636.3	1462.0	1473.8	1506.3	1554.6	1612.7	1658.0	1665.9	1672.8
25°	3082.6	2476.7	1531.9	1402.9	1407.8	1426.5	1459.0	1493.5	1525.0	1516.1	1523.1
27.5°	3201.7	2441.2	1454.1	1348.7	1339.8	1343.7	1360.5	1371.4	1388.0	1363.5	1366.5
30°	3341.7	2402.8	1394.0	1301.4	1276.7	1269.9	1273.8	1279.7	1292.5	1259.0	1254.1
32.5°	3504.2	2356.5	1337.8	1260.0	1225.5	1211.8	1213.7	1229.5	1278.7	1258.0	1247.2
35°	3693.4	2304.3	1278.7	1214.7	1191.0	1171.4	1169.3	1218.6	1365.4	1352.6	1342.7
37.5°	3915.0	2252.0	1219.7	1163.5	1165.4	1143.8	1136.9	1193.1	1382.2	1331.9	1325.0
40°	4196.8	2224.5	1169.3	1109.3	1133.9	1131.0	1117.2	1145.7	1271.8	1180.2	1168.4
42.5°	4545.5	2228.4	1131.9	1051.2	1096.5	1128.0	1106.3	1107.3	1152.7	1083.7	1072.9
45°	4976.0	2274.7	1105.3	1004.8	1054.2	1125.0	1102.4	1086.6	1090.6	1054.2	1048.2
47.5°	5478.4	2370.3	1086.6	966.5	1013.7	1114.2	1101.4	1080.7	1071.8	1052.1	1047.2
50°	6037.0	2509.2	1072.9	930.0	977.2	1096.5	1102.4	1074.8	1065.0	1057.1	1054.2
52.5°	6585.8	2667.8	1052.1	898.5	948.7	1074.8	1105.3	1068.9	1058.0	1052.1	1049.1
55°	7197.6	2865.8	1020.6	871.9	925.1	1047.2	1105.3	1060.0	1048.2	1049.1	1048.2
57.5°	8024.1	3186.0	983.2	849.3	896.5	1013.7	1086.6	1050.2	1035.4	1036.4	1037.4
60°	9315.6	3750.4	937.8	826.5	861.0	974.4	1061.0	1028.5	1013.7	1017.6	1018.7
62.5°	11215.0	4579.0	878.7	793.1	823.6	931.9	1025.5	1001.0	986.1	995.9	995.9
65°	13189.2	5309.9	805.9	750.6	784.2	885.7	981.2	966.5	951.7	974.4	973.3
67.5°	13720.2	5146.5	732.9	704.4	744.8	834.4	928.0	920.1	912.3	951.7	949.7
70°	12188.4	4131.7	665.9	657.1	701.4	779.3	870.8	870.8	865.9	895.5	888.6
72.5°	9286.0	2929.8	601.9	606.8	652.1	719.1	808.8	815.7	807.8	822.6	816.7
75°	4971.1	1676.7	537.9	551.7	591.1	658.1	739.9	746.8	741.8	740.8	743.8
77.5°	1652.1	819.7	470.9	492.6	527.0	595.1	667.9	678.7	667.0	665.0	664.0
80°	735.9	515.3	397.0	425.5	456.1	523.1	592.1	601.0	588.1	605.9	583.2
82.5°	472.9	338.9	318.2	349.7	379.3	451.2	516.2	518.2	506.4	588.1	501.5
85°	229.6	209.8	239.4	267.9	293.6	354.7	427.6	428.5	399.0	363.6	350.7
87.5°	114.3	122.1	159.6	185.3	198.0	243.4	311.3	305.4	292.6	266.0	245.3
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)