

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: P193498

Luminaire Tested: **GAN-AF-10-LED-U-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193498
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32496 lumens
Efficiency: N/A
Efficacy: 100.6 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

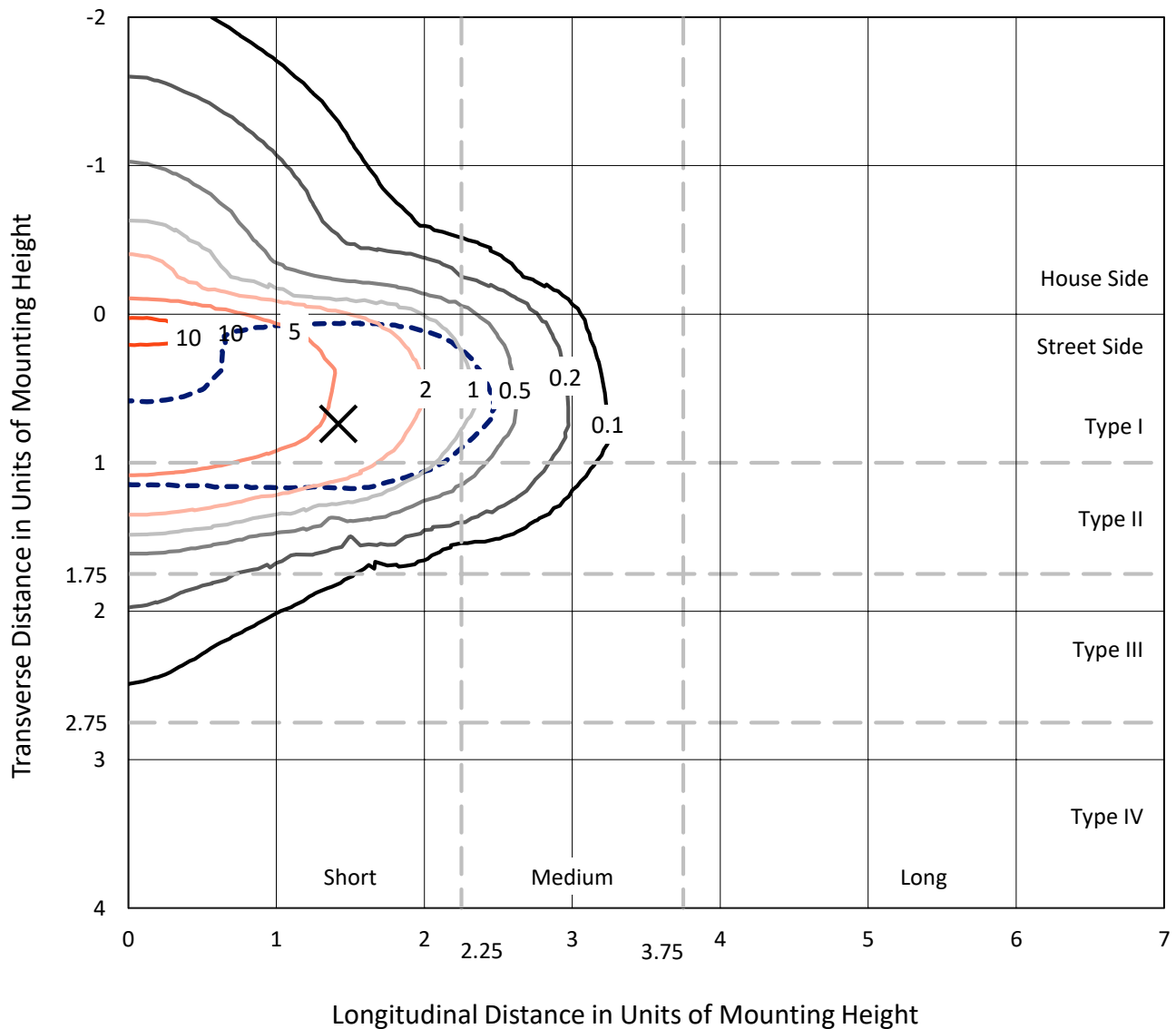


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

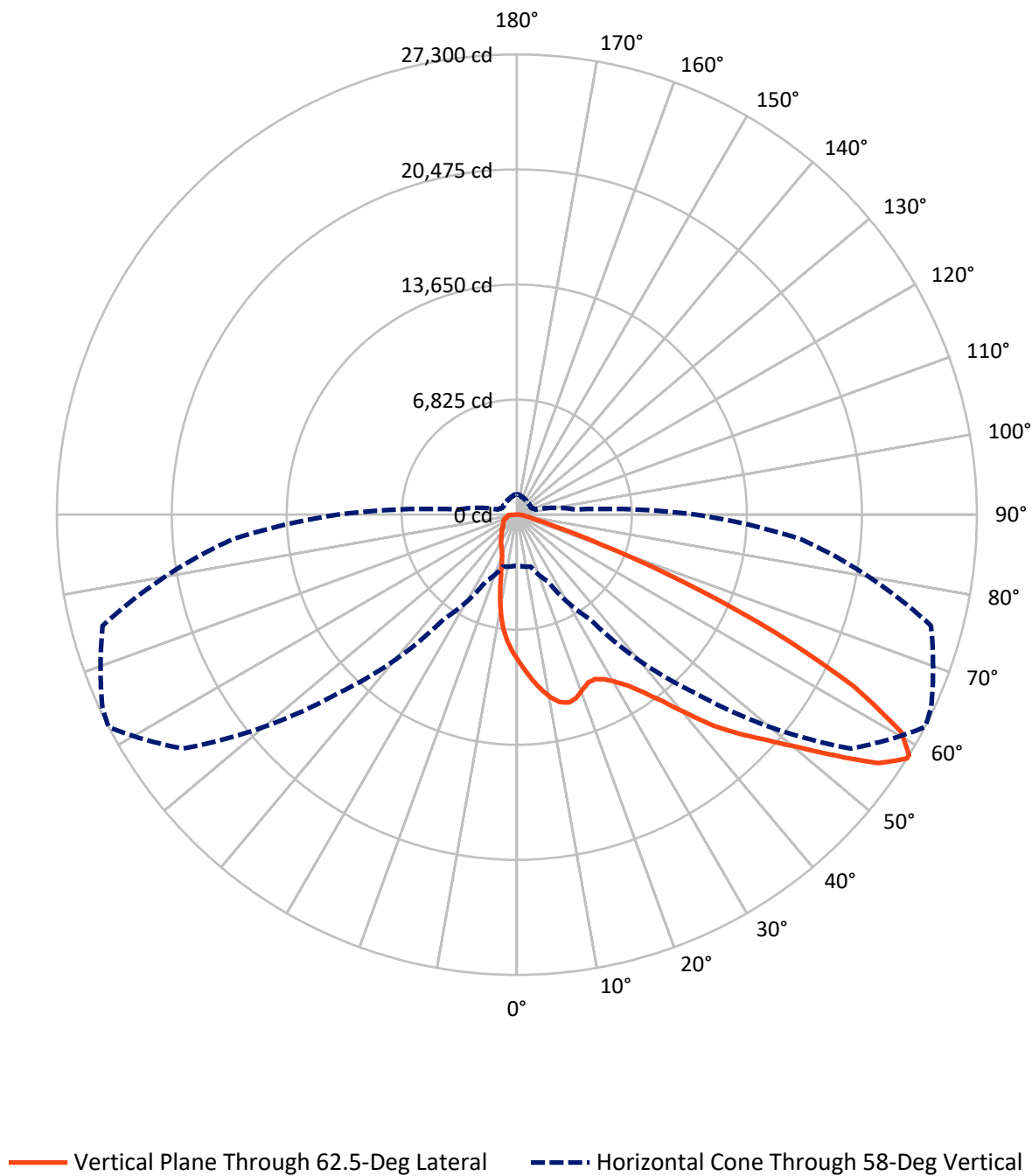


Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4955.8	0.0	4955.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27540.2	0.0	27540.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	32496.0	0.0	32496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.0	2.4
10°-20°	1973.3	6.1
20°-30°	3190.0	9.8
30°-40°	5064.1	15.6
40°-50°	7409.8	22.8
50°-60°	7750.0	23.8
60°-70°	4578.7	14.1
70°-80°	1289.8	4.0
80°-90°	468.3	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°	32496.0	100.0
0°-180°	32496.0	100.0

Coefficient of Utilization



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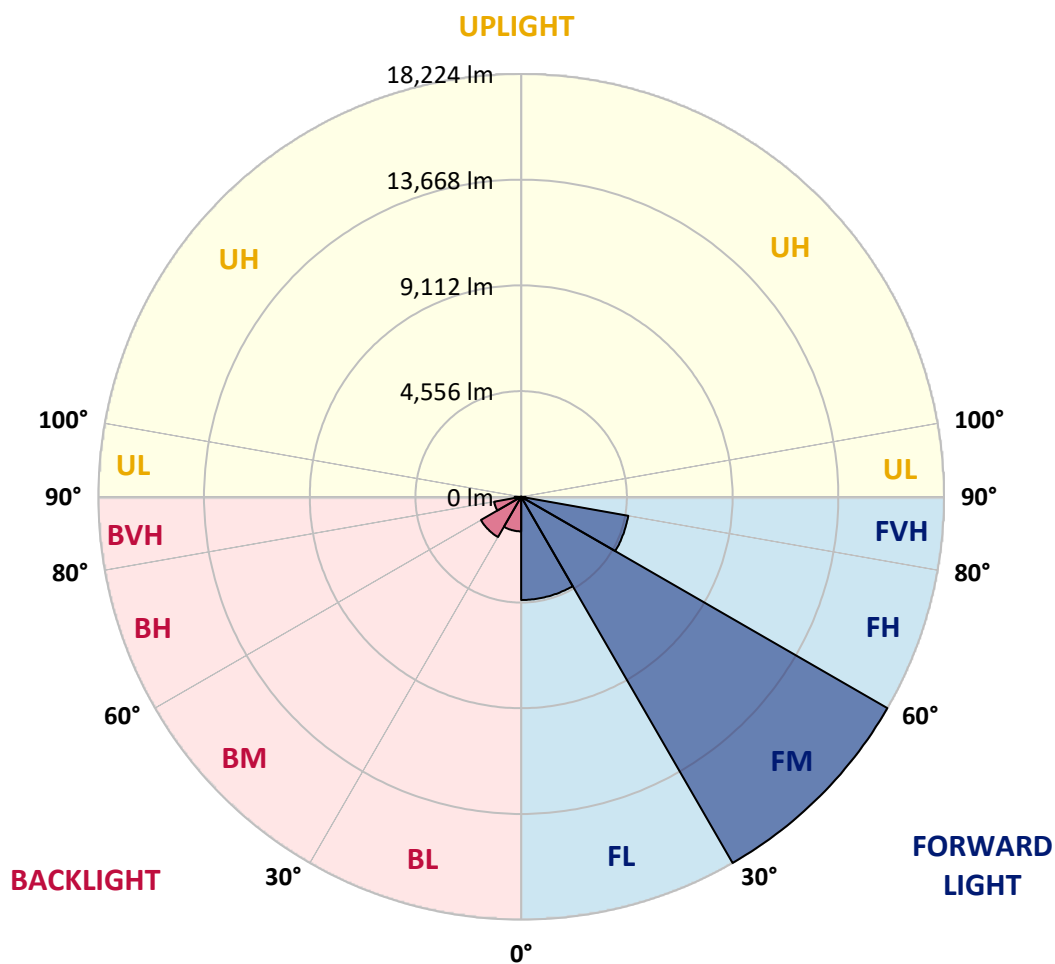
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4445.9	13.7			
FM	(30°-60°)	18223.6	56.1			
FH	(60°-80°)	4686.1	14.4			G2/5000
FVH	(80°-90°)	184.7	0.6			G2/225
BL	(0°-30°)	1489.5	4.6	B3/2500		
BM	(30°-60°)	2000.3	6.2	B2/2500		
BH	(60°-80°)	1182.5	3.6	B3/2500		G3/2500
BVH	(80°-90°)	283.5	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°	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9
2.5°	9863.7	9784.1	9733.7	9689.3	9631.1	9507.2	9340.4	9234.8	9181.2	8999.2	8783.4
5°	10830.8	10760.4	10708.4	10648.7	10544.7	10350.3	10081.0	9866.8	9761.2	9397.0	8965.5
7.5°	10604.3	10633.4	10723.7	10881.3	11016.0	10990.0	10749.7	10477.3	10338.1	9831.6	9176.7
10°	9239.4	9289.9	9446.0	9814.8	10411.5	11023.6	11210.3	11022.1	10881.3	10261.6	9393.9
12.5°	8965.5	8964.0	8976.2	9074.1	9429.1	10290.6	11225.6	11415.3	11331.2	10671.7	9615.8
15°	9077.2	9080.3	9071.1	9112.4	9222.6	9563.8	10757.4	11566.8	11626.5	11084.8	9845.4
17.5°	9371.0	9363.3	9328.1	9328.1	9367.9	9501.1	10206.5	11426.1	11701.5	11450.5	10047.3
20°	9863.7	9828.5	9735.2	9649.5	9606.6	9678.6	9980.0	11101.7	11571.4	11770.4	10214.1
22.5°	10460.5	10433.0	10281.5	10097.8	9949.4	9947.9	10096.3	10818.6	11346.5	12071.8	10354.9
25°	11231.7	11187.3	10962.4	10668.6	10408.5	10309.0	10350.3	10804.8	11224.1	12399.3	10480.4
27.5°	12137.6	12056.5	11790.2	11366.4	10983.8	10783.4	10723.7	11054.2	11335.8	12804.8	10654.8
30°	13236.3	13143.0	12801.7	12249.3	11709.1	11380.2	11253.1	11496.4	11706.1	13299.0	10934.9
32.5°	14486.5	14351.8	13957.0	13348.0	12638.0	12136.1	11929.5	12081.0	12247.8	13894.3	11285.3
35°	16214.1	16053.4	15482.6	14642.6	13840.7	13150.6	12820.1	12930.3	13092.5	14781.8	11791.8
37.5°	17392.3	17320.4	16940.9	16151.3	15279.1	14484.9	13973.9	14038.1	14129.9	15891.2	12440.6
40°	17381.6	17410.7	17418.4	17426.0	16832.3	16071.8	15522.4	15455.1	15436.7	17109.3	13178.1
42.5°	16510.9	16630.3	17015.9	17797.8	18159.0	17810.1	17306.6	17112.3	17015.9	18544.6	13960.1
45°	15178.1	15242.4	15964.7	17491.8	18838.4	19531.6	19150.5	18538.5	18364.0	19863.6	14608.9
47.5°	14491.1	14561.5	15015.9	16680.8	18830.7	20922.5	21142.9	19976.9	19664.7	21011.3	15168.9
50°	12855.3	13002.2	13574.5	15269.9	18143.7	21562.2	23225.5	21690.7	21044.9	22128.3	15730.5
52.5°	9851.5	10077.9	10719.1	12950.1	16400.8	21245.4	24891.9	23768.7	22856.7	23285.2	16212.5
55°	6214.2	6382.5	6921.1	9146.1	13120.0	19597.4	25523.9	26016.6	25205.6	24380.8	16630.3
57.5°	3378.7	3453.7	3655.7	5049.7	8534.0	15953.9	24602.7	27295.8	26959.2	25311.2	16945.5
58°	3023.7	3074.2	3199.7	4376.4	7568.4	14957.8	24194.1	27300.4	27132.1	25447.4	16970.0
60°	2243.3	2217.3	2105.6	2497.3	4212.7	10333.5	21724.4	26207.9	26702.1	25614.1	16850.6
62.5°	1970.9	1908.2	1680.2	1654.2	2048.9	4760.5	16622.6	22449.7	23617.2	24662.4	16125.3
65°	1851.6	1784.2	1490.4	1395.5	1478.2	2013.8	9791.8	16836.9	18301.3	21776.4	14270.7
67.5°	1762.8	1675.6	1369.5	1239.5	1245.6	1331.3	3925.0	10604.3	12252.4	16533.9	11100.1
70°	1677.1	1582.2	1267.0	1117.1	1081.9	1052.8	1560.8	5308.3	6803.3	10443.7	7077.2
72.5°	1585.3	1492.0	1176.7	1020.6	951.8	855.4	1019.1	2171.4	3032.9	4941.0	3210.4
75°	1452.2	1368.0	1086.4	935.0	837.0	708.5	769.7	1133.9	1360.4	1967.8	1547.0
77.5°	1288.4	1219.6	985.5	864.6	742.2	575.4	592.2	786.5	872.2	1126.2	919.7
80°	925.8	950.3	876.8	777.3	661.0	466.7	454.5	573.8	619.7	723.8	598.3
82.5°	650.3	664.1	725.3	635.0	546.3	367.2	335.1	404.0	431.5	475.9	322.9
85°	448.4	433.0	497.3	442.2	394.8	244.8	229.5	273.9	290.7	295.3	166.8
87.5°	269.3	269.3	287.7	237.2	212.7	127.0	123.9	156.1	166.8	159.1	91.8
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°	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9
2.5°	8654.9	8546.2	8315.1	8130.0	7895.9	7652.6	7516.4	7371.0	7271.5	7199.6	7314.4
5°	8720.7	8498.8	8021.3	7568.4	7068.0	6547.8	6153.0	5785.7	5530.2	5371.0	5521.0
7.5°	8824.7	8483.5	7723.0	6948.7	6050.4	5184.3	4410.1	3925.0	3641.9	3502.6	3589.9
10°	8944.1	8459.0	7372.5	6108.6	4823.2	3732.2	3153.8	2957.9	2893.6	2867.6	2879.9
12.5°	9043.5	8407.0	6942.6	5092.5	3622.0	2947.2	2780.4	2775.8	2789.6	2792.6	2797.2
15°	9113.9	8330.4	6304.5	4033.6	2896.7	2685.5	2676.3	2703.9	2729.9	2740.6	2746.7
17.5°	9161.4	8172.8	5583.7	3189.0	2595.2	2558.5	2579.9	2615.1	2642.7	2650.3	2656.4
20°	9156.8	7941.8	4725.3	2659.5	2431.5	2431.5	2468.2	2495.8	2497.3	2488.1	2492.7
22.5°	9109.3	7625.0	3892.8	2377.9	2286.1	2312.1	2348.9	2322.9	2215.7	2145.4	2149.9
25°	9029.8	7247.1	3179.8	2198.9	2151.5	2197.4	2186.7	1990.8	1837.8	1768.9	1768.9
27.5°	8959.4	6800.2	2632.0	2042.8	2016.8	2073.4	1883.7	1706.2	1641.9	1609.8	1599.1
30°	8908.9	6318.2	2266.2	1892.9	1889.8	1848.5	1634.3	1585.3	1574.6	1548.6	1539.4
32.5°	8921.1	5830.1	2032.1	1761.3	1772.0	1582.2	1514.9	1525.6	1516.4	1488.9	1476.7
35°	9022.1	5366.4	1879.1	1641.9	1609.8	1429.2	1444.5	1464.4	1461.3	1423.1	1410.9
37.5°	9202.7	4927.3	1778.1	1542.4	1404.7	1352.7	1377.2	1407.8	1400.1	1374.1	1364.9
40°	9392.4	4514.1	1695.5	1464.4	1283.8	1300.7	1322.1	1338.9	1346.6	1354.2	1348.1
42.5°	9577.6	4082.6	1594.5	1384.8	1233.3	1251.7	1260.9	1277.7	1319.0	1348.1	1346.6
45°	9687.7	3677.1	1490.4	1271.6	1193.6	1204.3	1198.2	1231.8	1282.3	1329.8	1331.3
47.5°	9810.2	3361.9	1407.8	1167.5	1155.3	1163.0	1144.6	1178.3	1224.2	1282.3	1288.4
50°	9958.6	3173.7	1342.0	1084.9	1103.3	1103.3	1098.7	1129.3	1193.6	1260.9	1273.1
52.5°	10126.9	3136.9	1286.9	1025.2	1051.3	1049.7	1054.3	1100.2	1170.6	1236.4	1247.1
55°	10332.0	3236.4	1227.2	980.9	1000.8	1006.9	1022.2	1074.2	1133.9	1208.9	1213.5
57.5°	10570.7	3438.4	1179.8	945.7	954.8	974.7	999.2	1046.7	1110.9	1193.6	1198.2
58°	10610.5	3481.2	1172.1	942.6	945.7	968.6	996.2	1042.1	1106.3	1196.6	1201.2
60°	10612.0	3623.5	1155.3	928.8	910.5	948.7	979.3	1025.2	1098.7	1207.3	1218.0
62.5°	10235.6	3622.0	1143.1	908.9	873.7	921.2	956.4	1009.9	1091.0	1233.3	1254.8
65°	9012.9	3291.5	1084.9	878.3	844.7	896.7	936.5	999.2	1112.5	1346.6	1360.4
67.5°	7049.7	2697.8	976.3	835.5	806.4	872.2	924.2	997.7	1135.4	1372.6	1381.8
70°	4661.0	2018.3	856.9	786.5	766.6	843.1	930.4	1049.7	1109.4	1317.5	1293.0
72.5°	2419.3	1417.0	760.5	725.3	720.7	817.1	1019.1	1043.6	1083.4	1239.5	1208.9
75°	1270.1	983.9	676.4	658.0	665.6	811.0	1202.7	1016.1	1049.7	1185.9	1244.1
77.5°	777.3	794.2	604.4	596.8	612.1	792.6	1201.2	980.9	1000.8	1091.0	1155.3
80°	520.3	644.2	549.3	550.9	561.6	725.3	1078.8	925.8	941.1	1031.4	1097.2
82.5°	329.0	381.0	498.8	524.9	511.1	598.3	916.6	843.1	864.6	1179.8	1247.1
85°	166.8	238.7	433.0	505.0	460.6	419.3	743.7	739.1	749.8	850.8	889.1
87.5°	76.5	131.6	338.2	440.7	347.4	261.7	540.2	547.8	590.7	604.4	604.4
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)