

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: P317406

Luminaire Tested: **GAN-SA2C-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13730 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

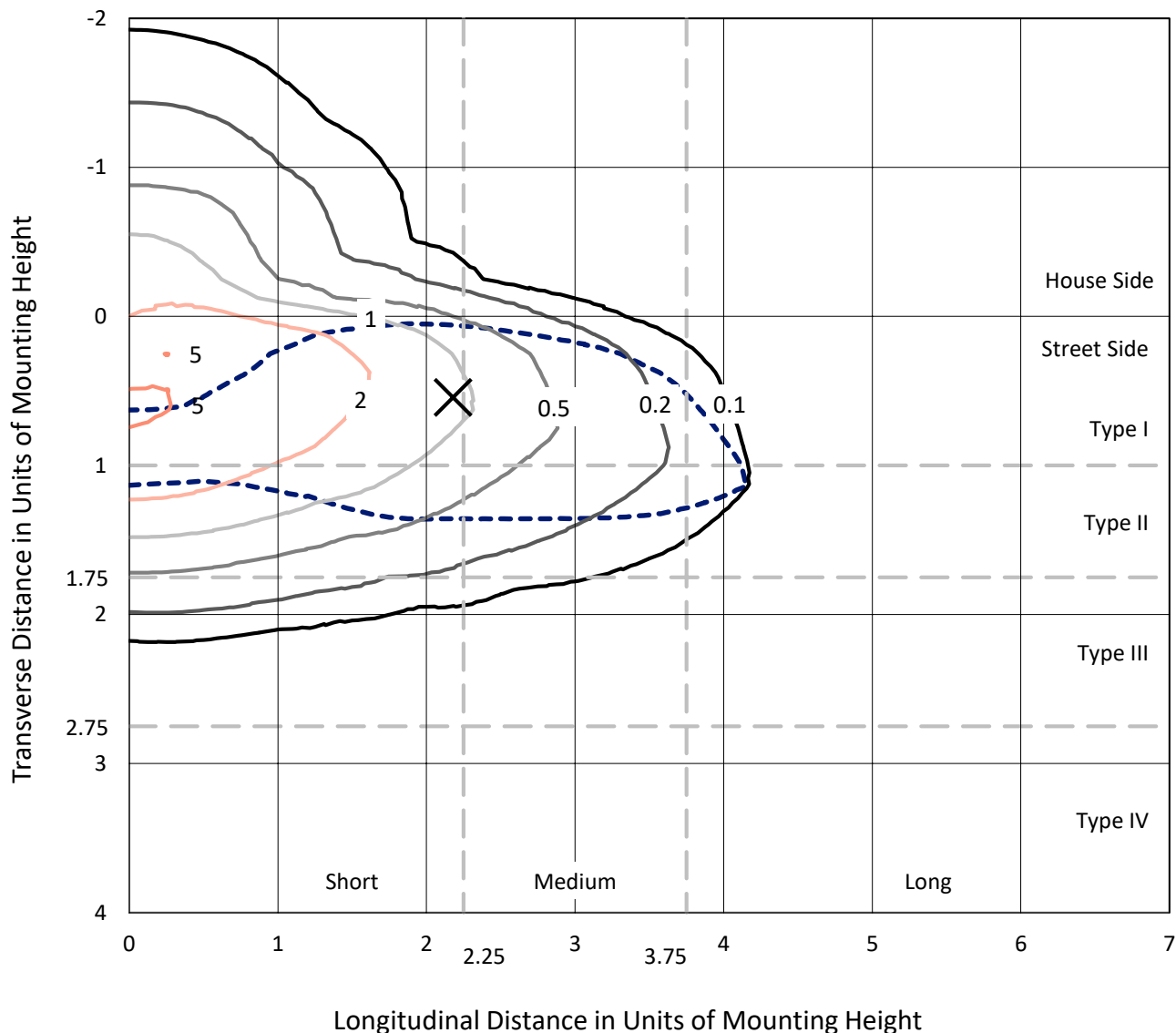
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

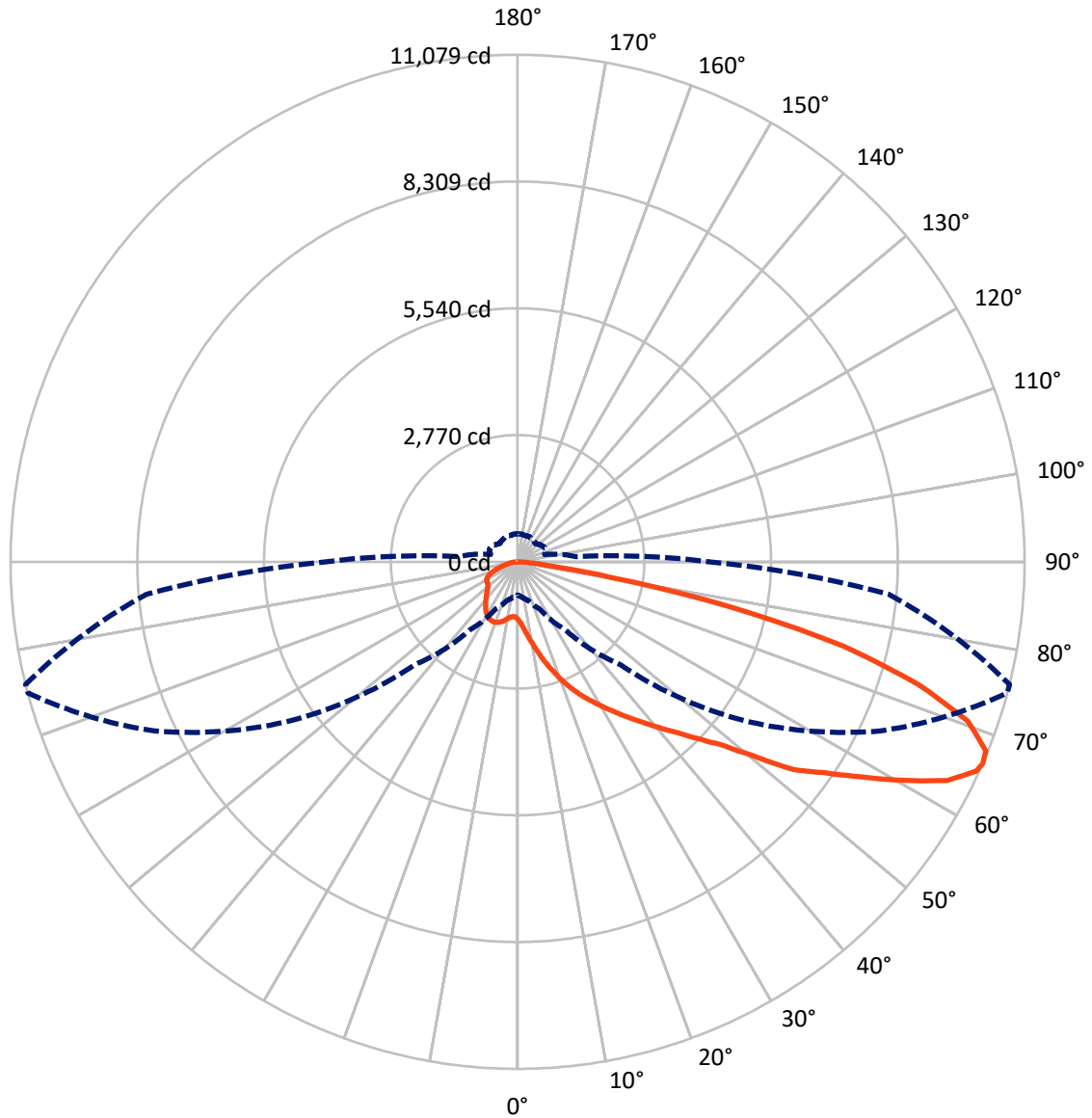
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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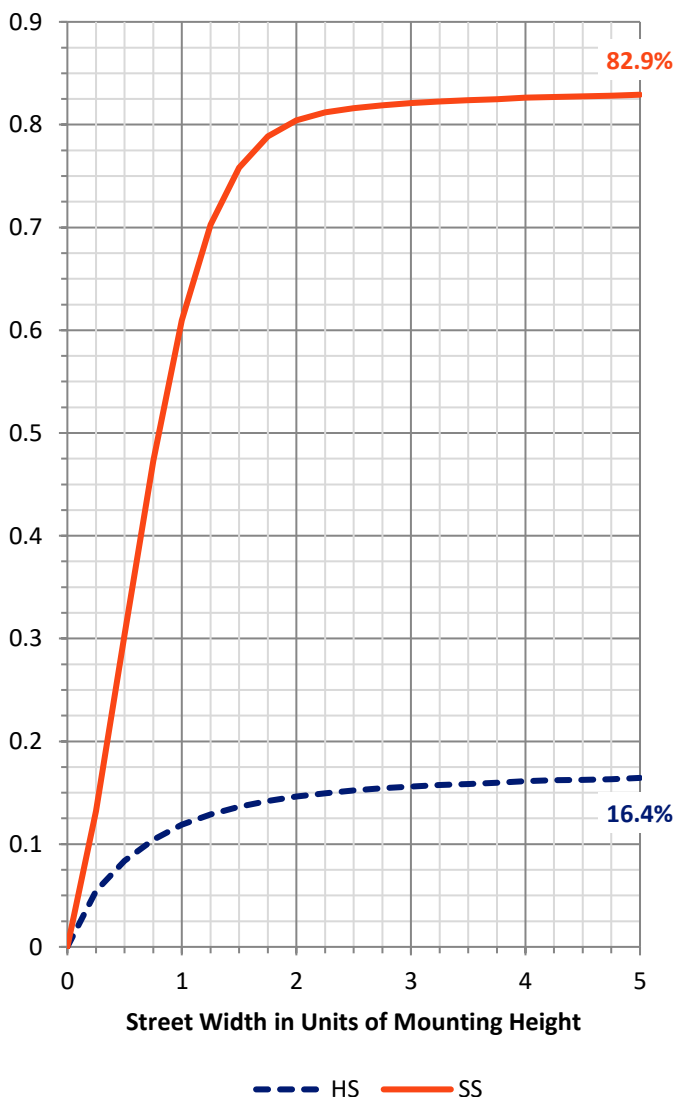
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2310.3	0.0	2310.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11419.7	0.0	11419.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	13730.0	0.0	13730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	1.1
10°-20°	598.8	4.4
20°-30°	1163.5	8.5
30°-40°	1899.1	13.8
40°-50°	2594.7	18.9
50°-60°	3022.3	22.0
60°-70°	2709.5	19.7
70°-80°	1369.3	10.0
80°-90°	221.1	1.6
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°	13730.0	100.0
0°-180°	13730.0	100.0

Coefficient of Utilization

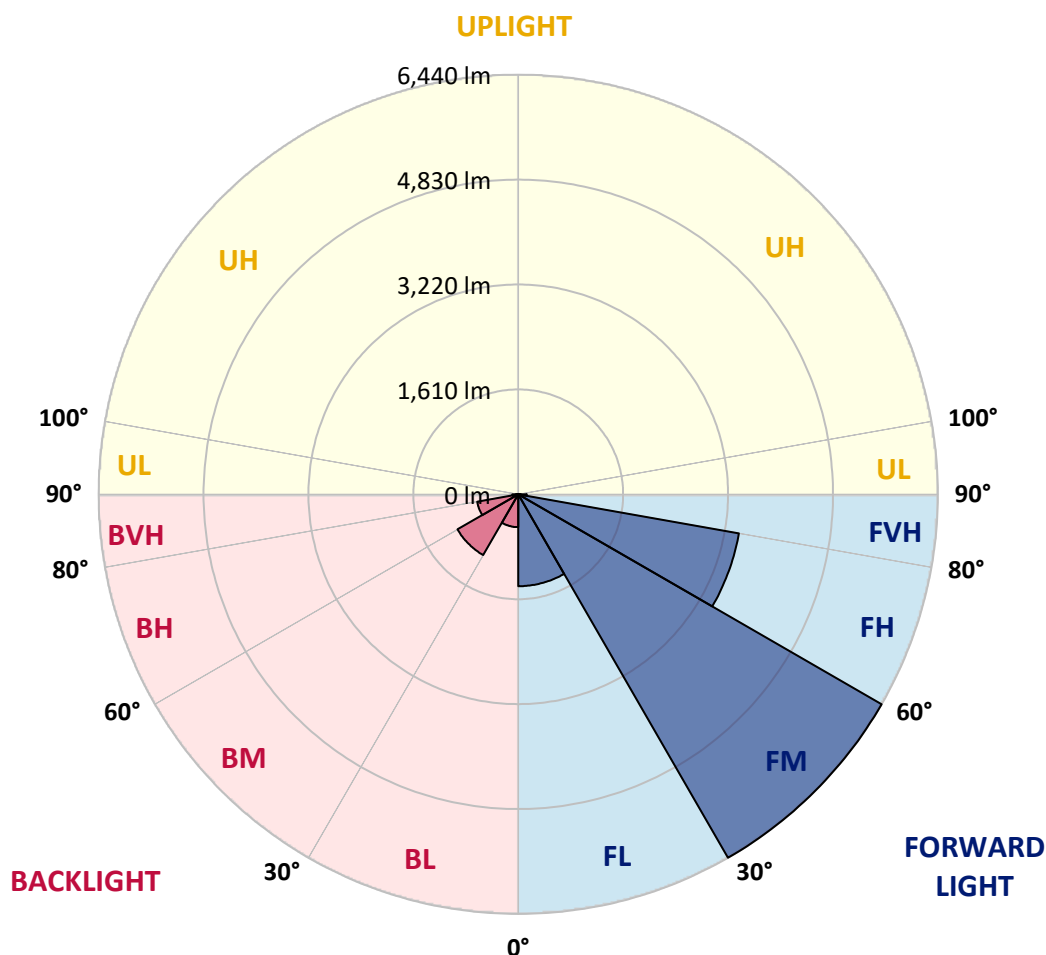


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.0	10.3			
FM (30°-60°)	6440.3	46.9			
FH (60°-80°)	3438.8	25.0			G2/5000
FVH (80°-90°)	130.6	1.0			G2/225
BL (0°-30°)	503.9	3.7	B2/1000		
BM (30°-60°)	1075.8	7.8	B2/2500		
BH (60°-80°)	640.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	90.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9
2.5°	1664.5	1639.3	1637.0	1600.2	1591.8	1521.4	1469.7	1415.6	1354.1	1342.0	1293.5
5°	2138.1	2135.8	2103.6	2043.5	1996.4	1876.1	1757.3	1631.4	1493.4	1471.1	1362.0
7.5°	2564.1	2560.4	2535.7	2470.9	2402.8	2255.1	2085.4	1892.4	1668.7	1635.6	1454.8
10°	2887.6	2886.2	2877.8	2830.3	2772.5	2630.8	2443.4	2180.0	1872.4	1827.2	1570.8
12.5°	3137.4	3140.2	3145.8	3129.1	3101.6	2980.8	2788.8	2484.9	2089.6	2044.9	1699.9
15°	3306.6	3315.0	3343.9	3367.7	3382.2	3308.0	3122.1	2796.7	2332.9	2279.3	1843.0
17.5°	3391.9	3401.3	3451.1	3522.9	3589.1	3581.7	3433.9	3094.1	2566.4	2514.7	1996.9
20°	3465.6	3472.6	3528.5	3614.7	3731.7	3783.5	3700.5	3380.3	2822.3	2760.8	2160.0
22.5°	3679.1	3687.9	3704.7	3753.7	3857.1	3952.2	3912.1	3651.1	3056.8	2999.5	2314.7
25°	4091.1	4101.8	4065.5	4024.0	4043.6	4109.8	4117.2	3898.1	3294.5	3229.7	2481.1
27.5°	4587.5	4602.9	4540.9	4434.2	4341.0	4315.3	4306.5	4100.4	3521.5	3446.5	2645.7
30°	5073.7	5100.3	5019.6	4881.2	4710.1	4589.9	4500.8	4298.5	3745.3	3673.5	2800.9
32.5°	5548.7	5538.0	5421.0	5285.8	5085.4	4934.8	4719.4	4511.1	3997.0	3914.5	2955.2
35°	5874.0	5877.8	5769.1	5608.8	5417.7	5302.1	5012.2	4740.4	4253.8	4177.8	3130.5
37.5°	6150.9	6133.7	6010.6	5861.0	5696.4	5647.0	5354.8	4993.1	4532.1	4449.1	3316.9
40°	6243.2	6223.1	6142.5	6034.8	5902.9	5898.7	5732.8	5279.3	4846.7	4764.7	3527.1
42.5°	6187.3	6161.6	6128.5	6099.2	6058.6	6077.3	6088.0	5614.9	5192.6	5100.7	3770.4
45°	5980.8	5942.1	5965.4	6029.2	6117.3	6222.7	6408.7	5986.4	5579.9	5503.0	4056.2
47.5°	5663.3	5628.4	5701.1	5837.7	6077.3	6343.9	6712.1	6396.5	6042.3	5965.9	4463.1
50°	5216.8	5227.1	5331.0	5579.4	5941.6	6399.8	7085.9	6939.6	6714.4	6643.1	5018.2
52.5°	4484.1	4485.9	4778.6	5186.5	5701.1	6370.9	7293.4	7633.6	7632.2	7546.0	5546.8
55°	3803.5	3845.0	4076.7	4618.8	5311.4	6255.3	7438.3	7971.1	8234.9	8133.8	6039.5
57.5°	3138.8	3163.1	3382.6	3927.0	4755.3	5947.2	7587.0	8376.1	8929.4	8865.6	6652.0
60°	2382.8	2420.1	2647.1	3150.0	4044.0	5400.4	7601.0	8798.9	9759.6	9695.3	7335.8
62.5°	1546.6	1610.9	1823.5	2294.7	3183.6	4614.1	7276.6	9075.3	10546.4	10523.6	7942.7
65°	888.9	937.4	1085.1	1448.7	2196.4	3626.9	6505.1	8969.1	11030.7	11017.6	8169.7
66°	726.2	756.5	869.8	1132.2	1812.3	3185.0	6056.7	8744.8	11078.7	11079.2	8143.6
67.5°	580.8	594.3	645.1	810.6	1337.3	2524.5	5255.5	8250.3	11019.0	11035.4	7975.3
70°	480.6	487.6	503.4	543.5	729.9	1522.3	3730.3	6965.2	10420.1	10432.7	7318.5
72.5°	431.2	435.4	441.4	447.0	515.1	850.7	2278.4	5572.0	9135.9	9152.2	6317.8
75°	390.6	392.9	392.0	392.5	432.1	542.1	1177.4	4160.1	7387.0	7354.4	4839.7
77.5°	343.1	345.4	340.7	341.7	382.2	416.7	585.9	2912.3	4985.1	4754.9	2726.8
80°	289.9	291.8	289.9	293.2	332.8	314.6	340.7	1638.4	2204.3	2084.9	969.5
82.5°	219.1	227.0	232.6	245.6	274.1	223.7	227.9	638.1	671.2	639.0	297.4
85°	96.0	117.0	175.3	187.8	206.0	134.2	149.6	260.1	273.1	264.8	108.1
87.5°	25.2	27.5	86.7	109.1	114.2	60.6	77.8	118.4	124.9	118.4	35.9
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°	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9
2.5°	1267.8	1245.0	1204.0	1167.6	1140.1	1121.5	1102.8	1093.5	1087.9	1082.3	1083.3
5°	1308.4	1262.2	1191.9	1142.0	1114.0	1096.3	1087.0	1083.3	1080.9	1075.3	1075.3
7.5°	1369.5	1304.2	1207.2	1156.0	1134.1	1120.5	1115.0	1113.1	1110.3	1103.8	1104.7
10°	1446.4	1355.0	1239.4	1189.5	1169.5	1154.6	1146.7	1143.9	1138.7	1131.3	1132.2
12.5°	1536.8	1417.9	1281.8	1229.6	1205.4	1185.3	1172.3	1164.4	1155.5	1145.7	1146.2
15°	1635.6	1486.5	1327.5	1265.5	1232.4	1204.5	1183.5	1170.0	1156.0	1143.9	1143.4
17.5°	1735.8	1552.6	1362.5	1285.1	1240.3	1203.5	1175.1	1154.1	1136.9	1121.9	1120.5
20°	1844.0	1612.3	1382.0	1283.2	1225.4	1181.6	1143.9	1117.8	1098.6	1083.7	1081.4
22.5°	1954.0	1668.2	1385.3	1264.1	1192.3	1138.7	1099.1	1070.2	1050.6	1035.2	1029.7
25°	2054.7	1711.6	1371.8	1227.3	1146.2	1088.4	1049.7	1020.3	1004.5	986.3	980.7
27.5°	2146.5	1741.9	1344.8	1180.2	1094.4	1037.6	1001.2	976.1	958.8	944.8	940.2
30°	2229.0	1758.2	1300.5	1124.3	1041.3	989.6	958.8	941.6	926.6	908.9	905.7
32.5°	2307.3	1758.2	1243.6	1063.2	988.6	947.2	929.0	918.3	901.5	884.2	879.6
35°	2385.6	1747.5	1176.5	999.4	940.2	916.9	915.9	903.3	877.7	854.4	848.3
37.5°	2468.1	1725.6	1101.0	939.7	900.5	903.3	911.3	883.3	846.9	813.8	805.0
40°	2561.3	1695.3	1022.7	888.0	867.4	897.3	898.7	854.4	783.5	753.2	745.3
42.5°	2670.9	1665.0	949.9	842.3	841.3	879.1	874.9	791.9	749.5	734.1	729.9
45°	2814.9	1647.7	881.0	798.9	820.8	849.7	834.4	757.4	739.7	730.9	727.1
47.5°	3041.9	1656.6	817.6	764.4	800.3	820.4	758.8	743.5	730.9	720.2	716.4
50°	3326.2	1651.5	766.3	740.7	777.0	789.6	724.8	725.3	718.8	706.6	701.0
52.5°	3540.2	1611.4	733.2	727.1	756.5	735.1	703.4	707.6	704.3	686.6	680.5
55°	3746.7	1576.9	716.4	722.0	741.6	667.0	678.2	688.5	685.2	667.9	665.2
57.5°	4003.5	1570.4	706.2	723.4	729.0	633.0	654.0	667.5	665.2	657.7	656.3
60°	4318.1	1572.2	696.8	725.7	715.0	607.8	631.1	648.4	649.8	648.4	647.4
62.5°	4491.1	1521.4	673.5	719.2	690.3	585.9	607.4	632.5	633.0	635.8	635.3
65°	4344.2	1369.5	630.2	696.4	648.8	567.7	586.8	614.3	607.4	619.9	619.9
66°	4201.6	1281.8	608.8	681.5	631.1	560.7	580.3	605.0	596.2	613.4	613.4
67.5°	3910.3	1134.1	570.1	649.8	606.0	551.0	572.9	589.6	577.5	603.2	601.3
70°	3378.0	877.2	492.2	578.0	564.5	536.5	562.6	558.9	541.2	580.3	572.9
72.5°	2848.0	666.5	395.3	483.8	501.5	518.3	548.2	519.7	497.3	524.8	508.5
75°	2209.9	501.1	312.3	376.2	423.7	489.9	530.9	474.5	442.3	439.5	430.7
77.5°	1194.7	344.0	247.5	287.1	336.5	454.5	519.3	426.0	377.6	366.4	359.4
80°	473.1	223.7	179.9	217.7	235.4	403.2	491.3	369.6	311.4	300.2	289.5
82.5°	195.3	132.4	116.1	145.9	153.4	344.9	440.9	303.0	240.5	332.8	353.3
85°	83.9	72.7	69.0	75.5	86.7	241.9	351.0	231.2	259.6	231.7	184.1
87.5°	25.2	30.8	29.4	28.9	31.7	57.8	186.9	128.6	190.6	72.2	54.1
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)