

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: P320967

Luminaire Tested: **GAN-SA3C-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22154 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

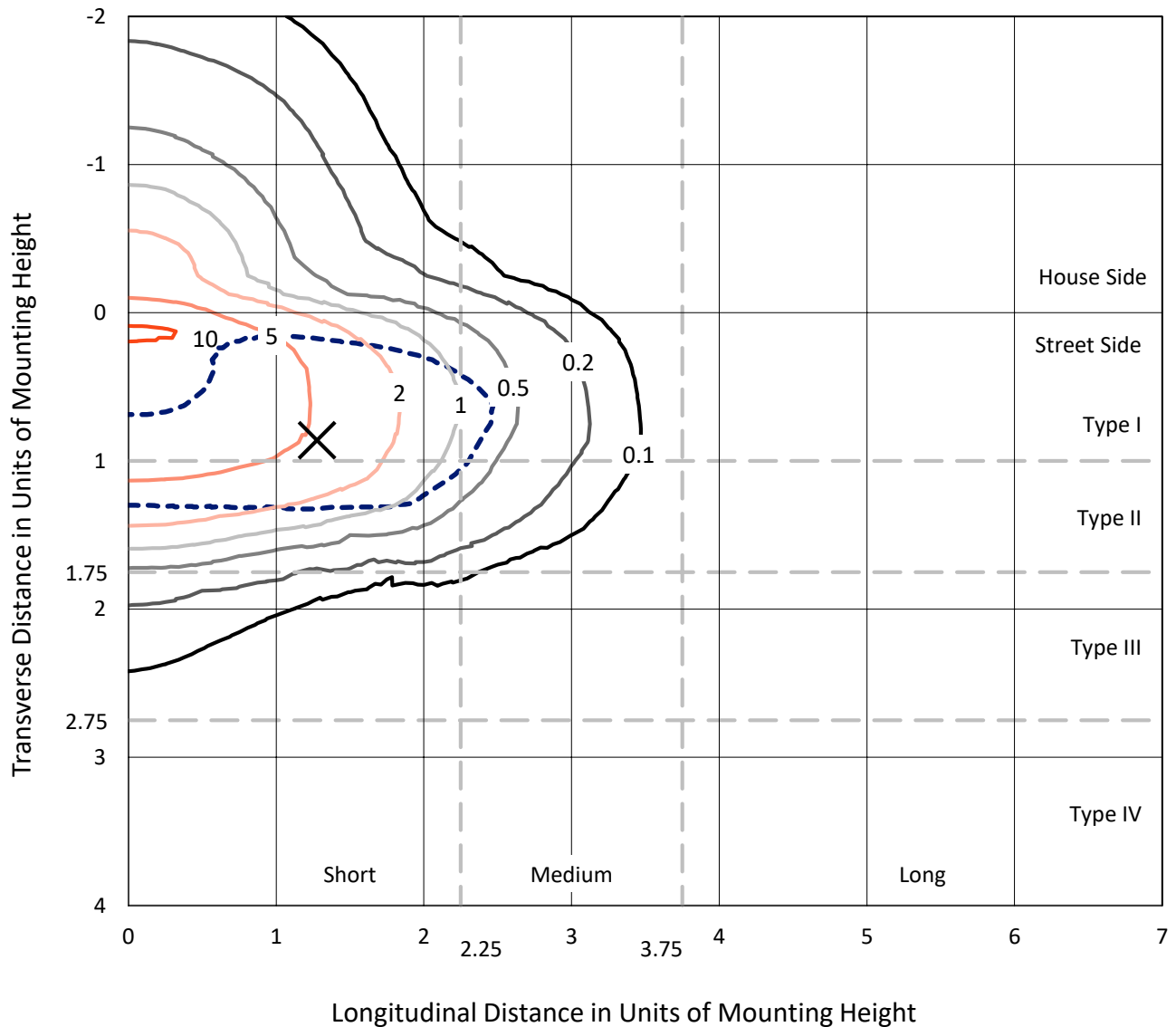
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

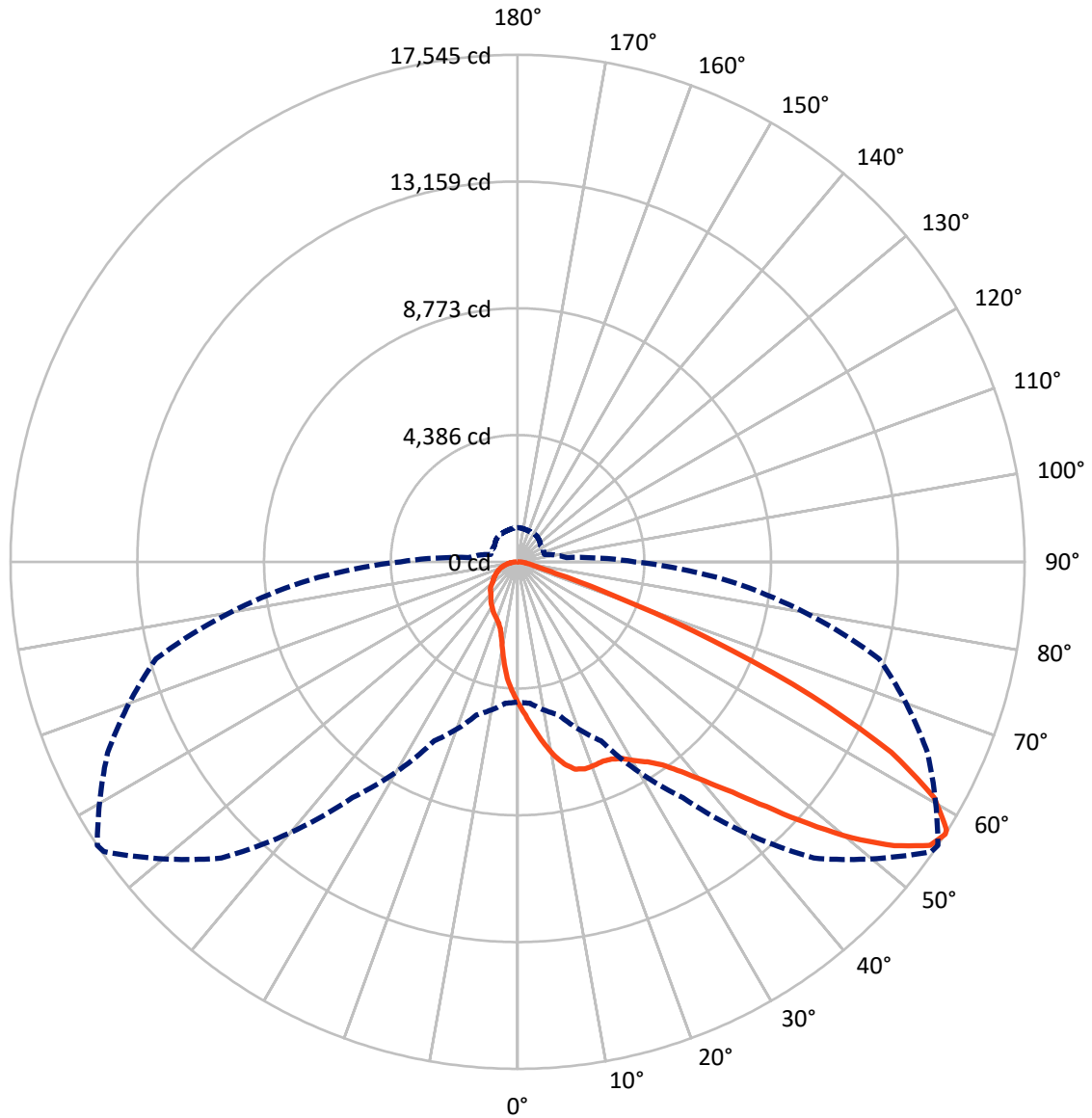
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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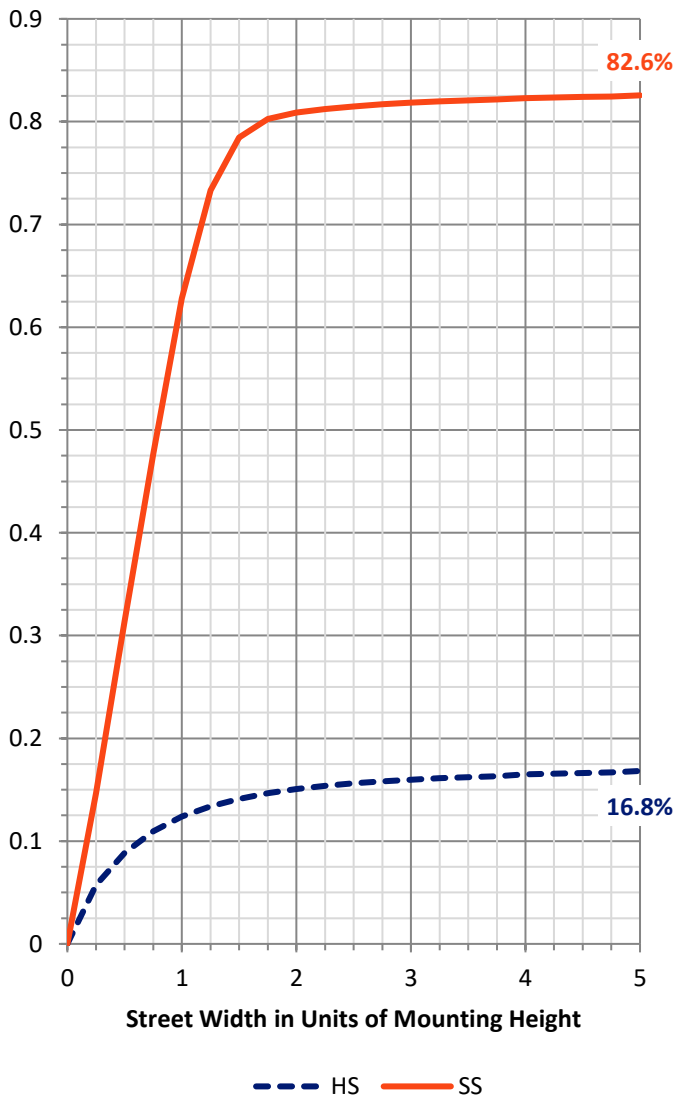
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3818.9	0.0	3818.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	18335.1	0.0	18335.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	22154.0	0.0	22154.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.4	2.1
10°-20°	1327.1	6.0
20°-30°	2161.5	9.8
30°-40°	3231.3	14.6
40°-50°	4901.1	22.1
50°-60°	5493.3	24.8
60°-70°	3244.6	14.6
70°-80°	1063.0	4.8
80°-90°	262.6	1.2
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°	22154.0	100.0
0°-180°	22154.0	100.0

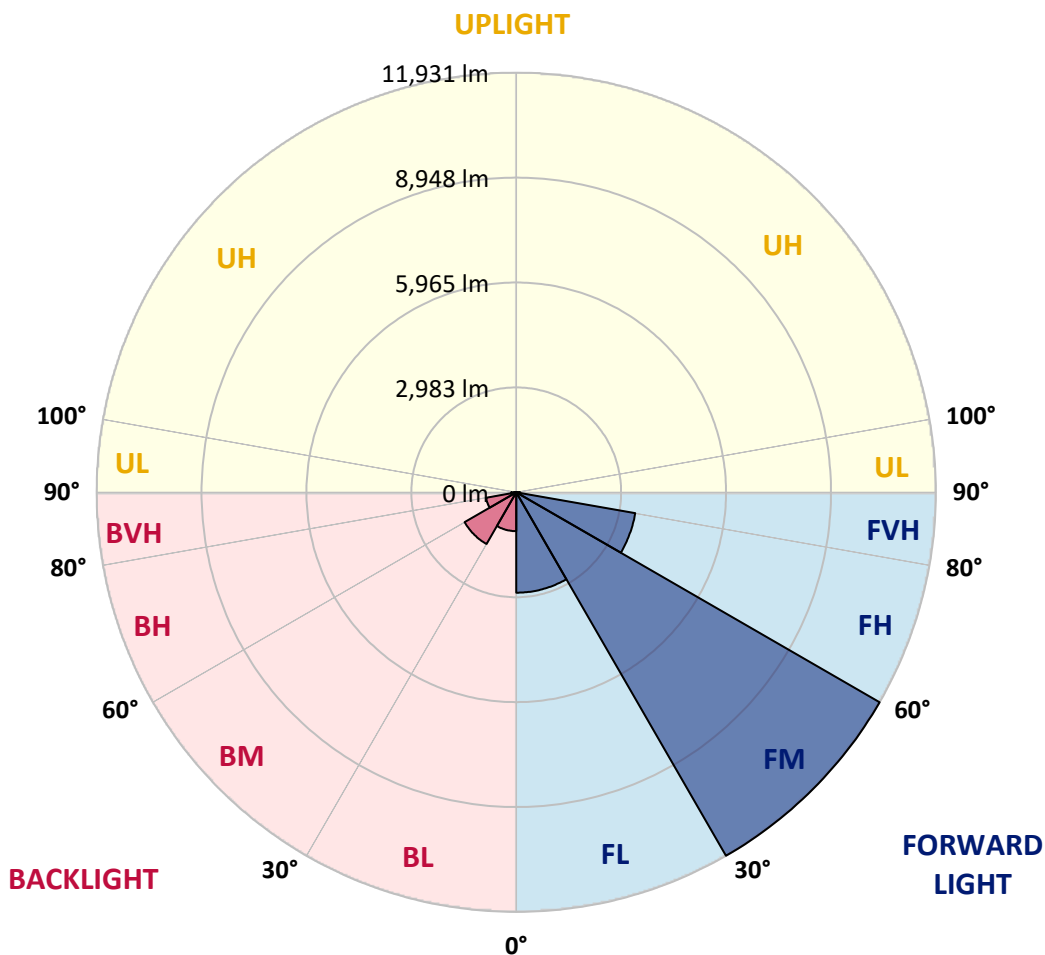


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2853.8	12.9			
FM (30°-60°)	11930.7	53.9			
FH (60°-80°)	3435.0	15.5			G2/5000
FVH (80°-90°)	115.6	0.5			G2/225
BL (0°-30°)	1104.2	5.0	B3/2500		
BM (30°-60°)	1695.1	7.7	B2/2500		
BH (60°-80°)	872.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	147.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8
2.5°	5642.4	5694.2	5671.3	5592.1	5531.2	5445.2	5349.3	5320.3	5219.1	5105.6	4969.4
5°	6535.5	6509.6	6472.3	6348.9	6218.7	6067.2	5826.6	5788.6	5563.2	5306.6	5035.6
7.5°	7044.0	7041.8	7019.7	6947.4	6828.6	6630.6	6340.6	6295.6	5955.3	5542.7	5122.4
10°	6970.2	6964.9	7001.4	7076.8	7112.6	7071.5	6827.1	6782.1	6364.2	5803.8	5222.9
12.5°	6550.7	6553.7	6612.4	6770.7	6986.2	7245.0	7205.5	7183.4	6788.2	6099.2	5344.7
15°	6224.1	6230.9	6277.4	6415.2	6669.5	7139.2	7435.4	7443.0	7198.6	6425.1	5487.1
17.5°	6080.9	6095.4	6116.7	6213.4	6446.4	6928.3	7490.2	7531.3	7558.0	6763.1	5624.1
20°	6126.6	6140.3	6146.4	6208.1	6399.2	6800.4	7452.1	7526.0	7833.6	7081.4	5761.2
22.5°	6331.4	6339.8	6343.6	6359.6	6508.1	6837.0	7427.0	7504.7	8033.0	7366.9	5864.7
25°	6671.0	6664.9	6640.5	6620.0	6719.7	6981.6	7484.9	7558.7	8195.2	7625.7	5932.5
27.5°	7077.5	7069.9	7022.7	6966.4	7023.5	7207.0	7651.6	7710.2	8340.6	7867.8	5966.7
30°	7565.6	7545.8	7456.7	7389.7	7411.8	7545.0	7926.5	7979.7	8565.2	8142.7	6000.2
32.5°	8129.7	8108.4	7979.7	7868.6	7868.6	7979.7	8209.7	8253.8	8755.6	8453.3	6054.3
35°	8836.3	8809.6	8642.1	8455.6	8403.1	8459.4	8595.7	8626.9	9098.2	8844.6	6152.5
37.5°	9669.2	9633.4	9416.4	9166.7	9051.7	9048.7	9146.9	9210.9	9645.6	9358.6	6319.2
40°	10504.4	10479.3	10289.7	10093.3	9867.9	9795.6	9947.1	9966.9	10361.3	9996.6	6532.4
42.5°	11150.0	11145.5	11110.4	11136.3	10905.6	10759.5	10878.2	10894.2	11235.3	10687.1	6759.3
45°	11491.1	11498.7	11668.5	12044.6	12129.9	12023.3	12081.9	12086.5	12234.2	11383.8	6967.1
47.5°	11217.8	11257.4	11686.8	12528.1	13226.2	13580.3	13482.8	13539.2	13202.6	11982.2	7130.1
50°	10152.7	10201.4	10932.3	12312.6	13737.9	15087.0	15036.0	15023.0	13983.8	12420.7	7218.4
52.5°	8833.2	8871.3	9474.3	11192.7	13362.5	15919.9	16388.1	16321.1	14678.1	12748.9	7235.1
55°	6824.0	6883.4	7461.3	8957.3	11844.4	15601.7	17382.5	17322.3	15310.8	12920.9	7215.3
57°	4851.3	4913.8	5487.8	6836.2	9963.8	14500.0	17481.4	17545.4	15652.7	12949.9	7237.4
57.5°	4329.1	4393.0	4961.7	6271.3	9377.6	14101.8	17396.2	17502.8	15714.3	12945.3	7249.6
60°	2179.8	2204.1	2566.5	3500.7	5927.9	11400.5	16283.8	16558.7	15769.9	12721.5	7302.1
62.5°	1355.2	1337.7	1326.3	1612.5	2884.0	7560.2	13988.4	14517.5	14706.3	12179.4	7175.0
65°	1191.5	1158.8	1033.2	1010.3	1273.7	3672.0	10534.1	11192.7	12433.7	11325.1	6872.0
67.5°	1119.2	1087.2	945.6	860.3	861.1	1455.7	6540.0	7281.6	9685.9	9880.8	6157.1
70°	1044.6	1015.6	883.2	782.7	733.2	806.3	3008.9	3571.5	6313.9	7766.6	5146.0
72.5°	948.6	928.9	803.2	699.7	647.2	603.8	1151.9	1360.5	3655.3	5216.0	3573.8
75°	848.1	829.9	722.5	623.5	559.6	475.1	648.7	698.9	1856.9	2668.5	1759.5
77.5°	737.8	727.1	642.6	551.2	500.2	393.6	459.1	483.5	796.4	1144.3	882.4
80°	587.0	607.6	561.9	491.1	443.9	315.2	325.1	341.1	463.7	558.8	501.0
82.5°	382.2	418.0	440.1	398.9	365.4	248.2	233.7	240.6	302.3	341.1	217.7
85°	159.1	178.9	289.3	261.1	242.9	181.2	156.8	159.9	187.3	194.1	89.1
87.5°	70.8	75.4	127.1	119.5	102.8	62.4	67.0	73.1	99.7	94.4	34.3
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°	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8
2.5°	4918.3	4854.4	4744.8	4623.7	4524.7	4445.5	4365.6	4310.8	4246.8	4212.6	4195.1
5°	4922.2	4796.5	4565.8	4329.1	4117.4	3924.0	3739.8	3598.2	3465.7	3394.1	3374.3
7.5°	4938.1	4749.3	4376.3	3986.4	3610.3	3267.0	3002.0	2836.0	2716.5	2663.2	2648.0
10°	4951.1	4693.7	4141.8	3564.7	3053.0	2705.1	2499.5	2406.6	2365.5	2358.7	2351.8
12.5°	4981.5	4636.6	3895.1	3124.6	2619.8	2379.2	2307.7	2301.6	2313.0	2329.7	2329.7
15°	5029.5	4580.3	3613.4	2747.0	2344.2	2259.7	2274.2	2307.7	2338.9	2364.8	2368.6
17.5°	5064.5	4511.0	3310.4	2444.7	2197.3	2220.1	2271.9	2319.1	2351.1	2376.2	2378.5
20°	5089.7	4403.7	2986.8	2214.0	2112.8	2183.6	2248.3	2290.2	2312.2	2337.4	2341.2
22.5°	5076.7	4259.8	2699.8	2048.8	2044.2	2130.3	2191.9	2242.2	2225.4	2201.1	2217.1
25°	5014.3	4061.8	2404.4	1925.5	1971.9	2058.7	2134.8	2101.3	2045.0	2034.3	2040.4
27.5°	4903.1	3809.1	2131.0	1811.3	1888.2	1992.5	1987.9	1954.4	1934.6	1920.9	1929.3
30°	4783.6	3535.0	1892.0	1711.5	1795.3	1881.3	1863.8	1863.0	1843.2	1821.2	1831.8
32.5°	4665.6	3259.4	1702.4	1629.3	1725.2	1736.6	1774.7	1786.1	1747.3	1700.9	1697.8
35°	4562.8	2999.0	1558.5	1554.7	1640.7	1642.2	1697.8	1681.8	1585.1	1537.2	1537.2
37.5°	4485.9	2739.4	1448.9	1487.7	1529.6	1569.2	1597.3	1531.1	1515.1	1488.4	1487.7
40°	4452.4	2510.9	1380.3	1436.7	1451.1	1501.4	1429.1	1454.9	1462.6	1448.9	1448.9
42.5°	4417.4	2312.2	1320.9	1397.8	1395.6	1388.7	1352.2	1385.7	1416.1	1416.9	1414.6
45°	4382.4	2140.9	1268.4	1314.9	1346.8	1273.0	1279.8	1315.6	1358.3	1373.5	1373.5
47.5°	4343.5	2005.4	1220.5	1227.3	1276.8	1227.3	1222.0	1249.4	1299.6	1324.0	1329.3
50°	4258.3	1883.6	1165.6	1150.4	1164.1	1180.9	1185.4	1198.4	1253.9	1292.8	1301.9
52.5°	4140.2	1774.7	1095.6	1079.6	1079.6	1142.8	1164.1	1167.9	1215.1	1261.6	1270.7
55°	4042.0	1705.4	1023.3	1020.2	1017.2	1102.4	1139.0	1145.1	1177.8	1214.4	1218.9
57°	4048.9	1700.1	967.7	970.7	970.0	1061.3	1115.4	1128.3	1145.1	1176.3	1181.6
57.5°	4052.7	1703.9	955.5	957.0	956.3	1049.9	1108.5	1123.0	1135.9	1168.7	1174.0
60°	4109.8	1713.8	906.0	889.3	893.1	989.0	1069.7	1088.0	1096.3	1139.7	1146.6
62.5°	4025.3	1669.6	866.4	826.1	826.1	925.0	1015.6	1044.6	1057.5	1116.1	1127.6
65°	3780.1	1545.5	820.0	754.5	762.1	861.1	950.9	998.1	1017.9	1091.0	1103.2
67.5°	3401.7	1401.7	770.5	690.5	698.2	794.1	883.9	934.9	966.2	1063.6	1073.5
70°	2909.1	1225.8	703.5	622.8	631.9	721.0	804.8	862.6	909.1	1037.7	1040.8
72.5°	2144.7	1005.0	609.8	548.2	558.1	635.7	724.8	791.8	854.2	973.0	971.5
75°	1275.3	785.7	506.3	472.8	479.7	552.0	652.5	733.9	827.6	947.9	962.4
77.5°	773.5	591.6	412.7	395.9	404.3	478.1	600.7	687.5	816.2	893.8	889.3
80°	467.5	422.6	329.7	319.0	327.4	408.8	555.8	652.5	713.4	763.6	763.6
82.5°	244.4	258.1	242.1	233.7	245.2	332.0	505.5	569.5	630.4	541.3	505.5
85°	99.7	134.8	146.9	146.2	153.0	229.9	436.3	487.3	406.6	386.0	395.1
87.5°	33.5	57.1	71.6	61.7	64.7	144.7	302.3	235.3	279.4	194.9	185.0
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)