

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: P320937

Luminaire Tested: **GAN-SA3D-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320937
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-SA3D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22132 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

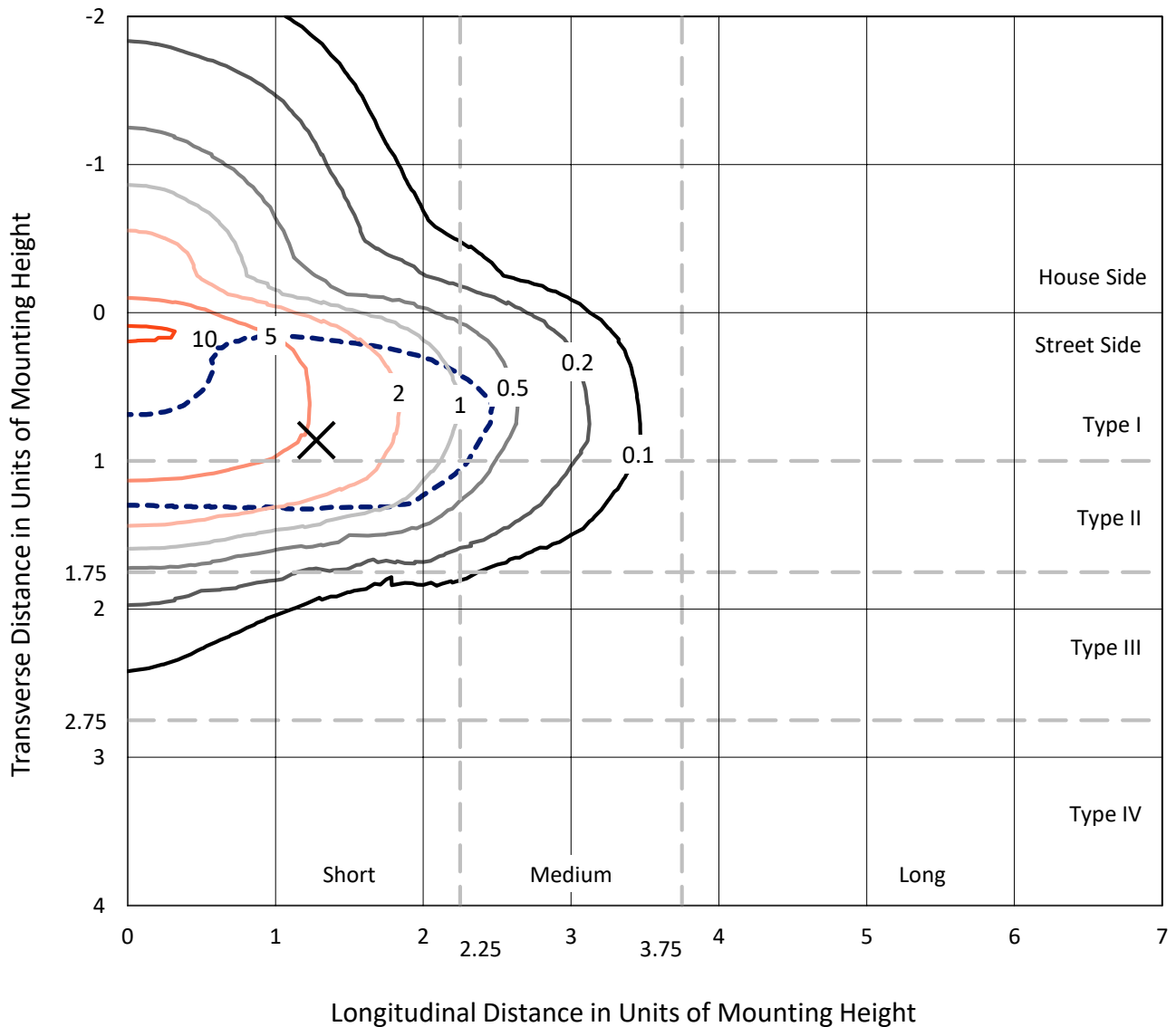
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

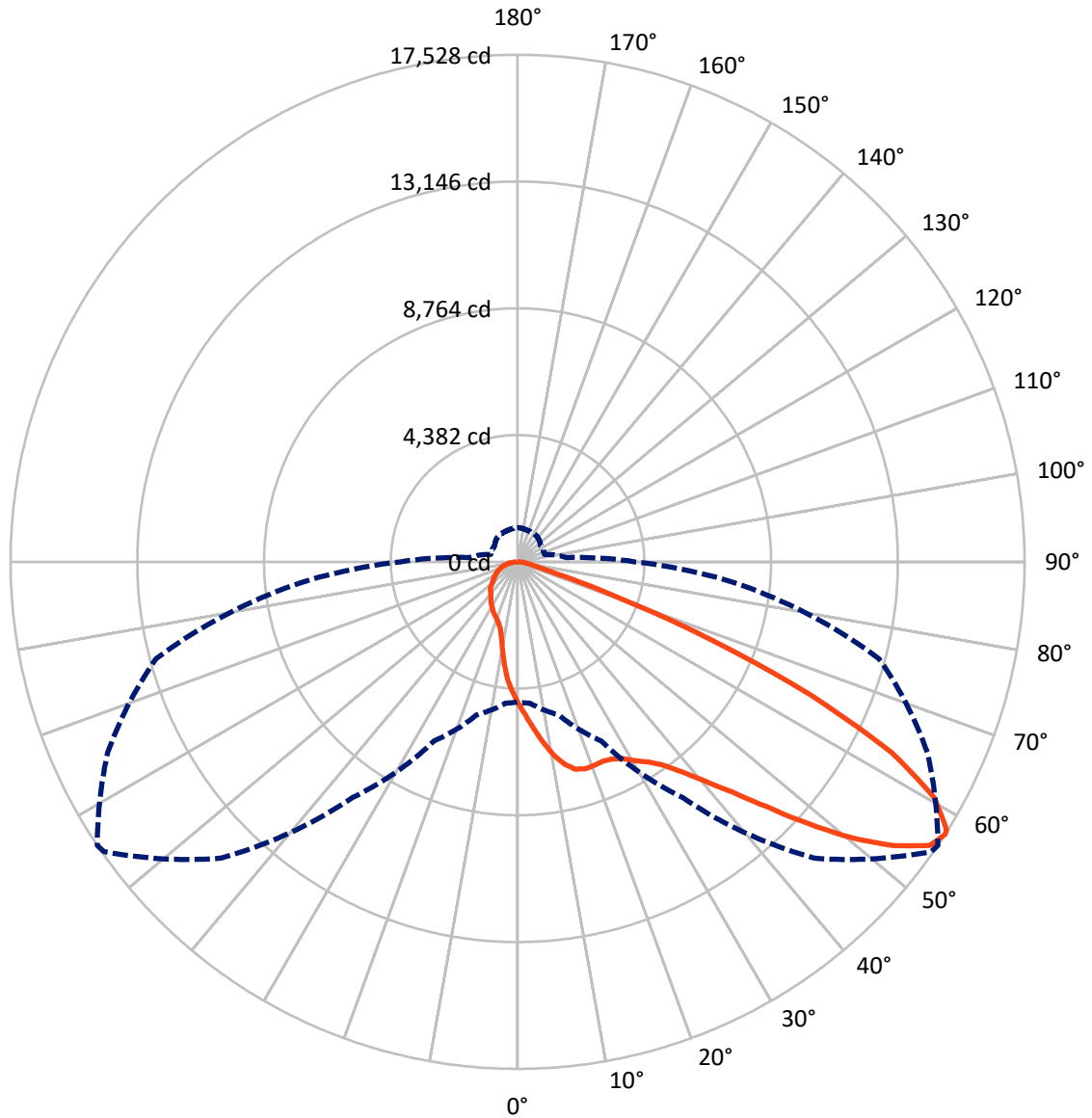
✕ Max cd
 - - - 1/2 Max cd



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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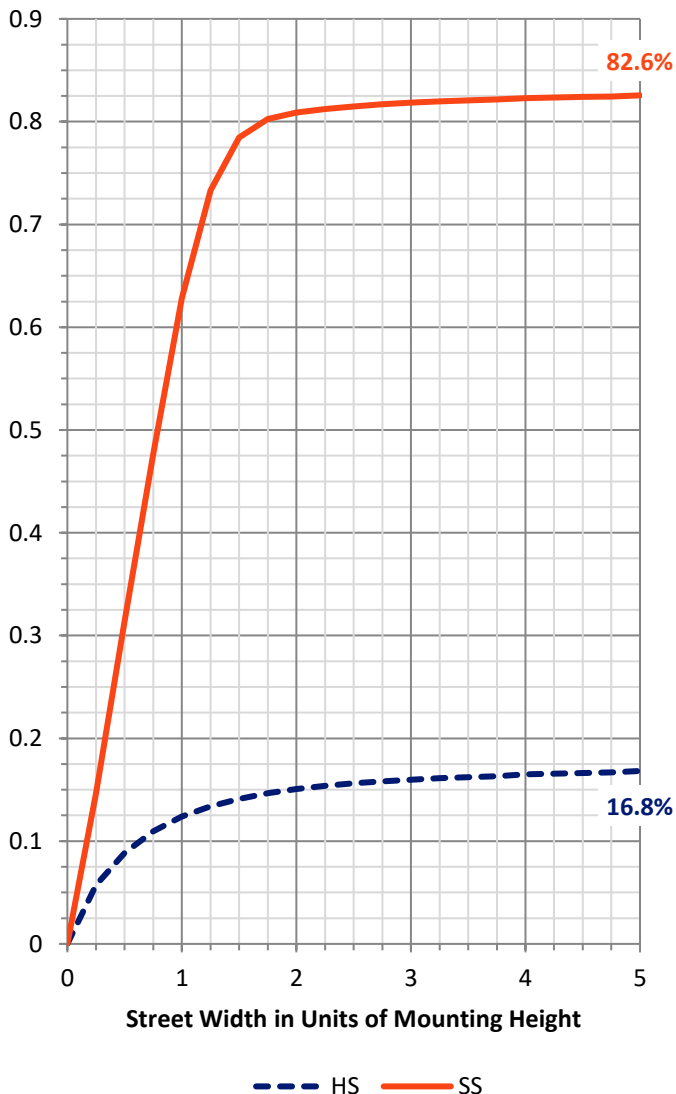
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3815.1	0.0	3815.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	18316.9	0.0	18316.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	22132.0	0.0	22132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.9	2.1
10°-20°	1325.7	6.0
20°-30°	2159.4	9.8
30°-40°	3228.1	14.6
40°-50°	4896.3	22.1
50°-60°	5487.9	24.8
60°-70°	3241.4	14.6
70°-80°	1062.0	4.8
80°-90°	262.4	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°	22132.0	100.0
0°-180°	22132.0	100.0

Coefficient of Utilization

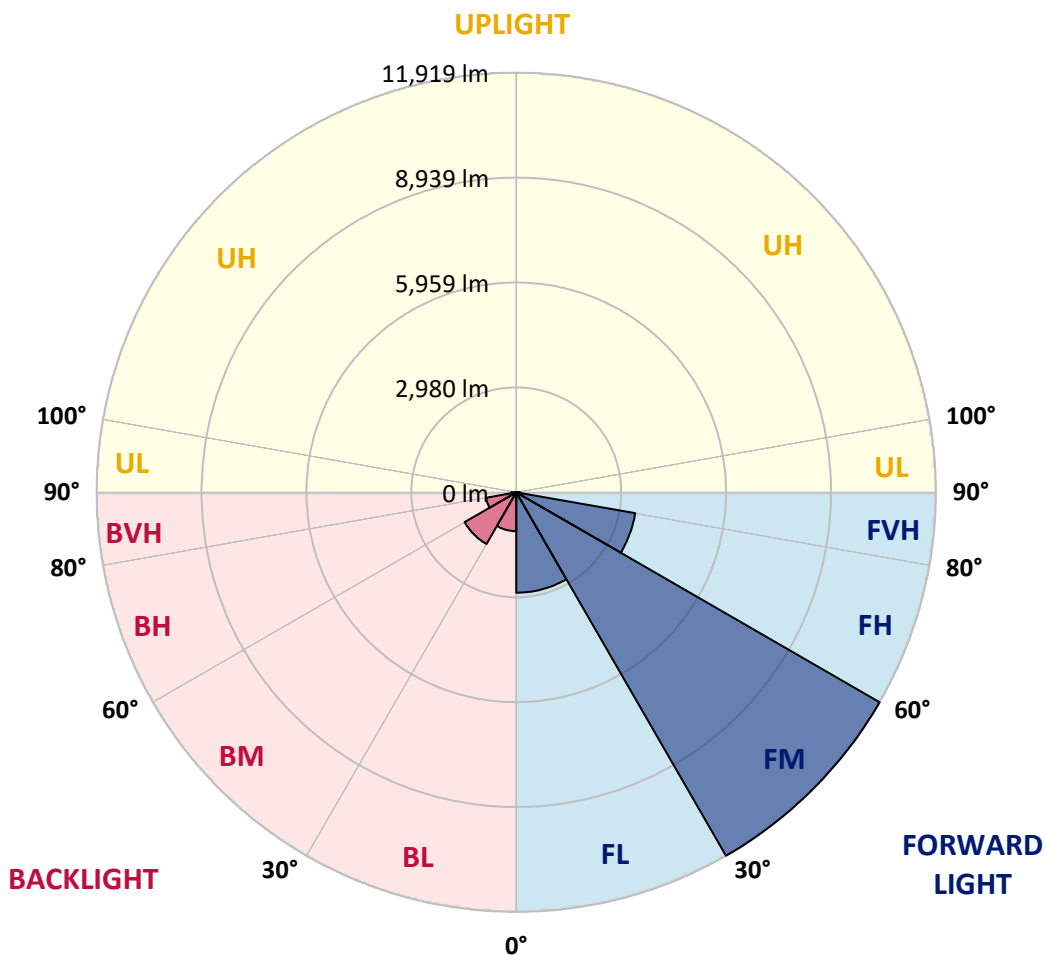


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2850.9	12.9			
FM (30°-60°)	11918.8	53.9			
FH (60°-80°)	3431.6	15.5			G2/5000
FVH (80°-90°)	115.5	0.5			G2/225
BL (0°-30°)	1103.1	5.0	B3/2500		
BM (30°-60°)	1693.4	7.7	B2/2500		
BH (60°-80°)	871.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	146.8	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°	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9
2.5°	5636.8	5688.5	5665.7	5586.6	5525.7	5439.8	5344.0	5315.1	5213.9	5100.6	4964.4
5°	6529.0	6503.1	6465.8	6342.6	6212.6	6061.2	5820.9	5782.8	5557.7	5301.4	5030.6
7.5°	7037.1	7034.8	7012.7	6940.5	6821.8	6624.0	6334.3	6289.4	5949.4	5537.2	5117.3
10°	6963.3	6957.9	6994.5	7069.8	7105.5	7064.4	6820.3	6775.4	6357.8	5798.0	5217.7
12.5°	6544.2	6547.2	6605.8	6764.0	6979.2	7237.8	7198.3	7176.2	6781.5	6093.1	5339.4
15°	6217.9	6224.7	6271.1	6408.8	6662.8	7132.1	7428.0	7435.6	7191.5	6418.7	5481.6
17.5°	6074.9	6089.3	6110.6	6207.2	6440.0	6921.4	7482.8	7523.8	7550.5	6756.4	5618.5
20°	6120.5	6134.2	6140.3	6201.9	6392.8	6793.7	7444.7	7518.5	7825.8	7074.3	5755.4
22.5°	6325.1	6333.5	6337.3	6353.3	6501.6	6830.2	7419.6	7497.2	8025.1	7359.5	5858.9
25°	6664.4	6658.3	6633.9	6613.4	6713.0	6974.7	7477.4	7551.2	8187.1	7618.1	5926.6
27.5°	7070.5	7062.9	7015.8	6959.5	7016.5	7199.8	7644.0	7702.6	8332.3	7860.0	5960.8
30°	7558.1	7538.3	7449.3	7382.4	7404.4	7537.5	7918.6	7971.8	8556.7	8134.6	5994.3
32.5°	8121.7	8100.4	7971.8	7860.8	7860.8	7971.8	8201.5	8245.6	8746.9	8444.9	6048.3
35°	8827.5	8800.9	8633.5	8447.2	8394.7	8451.0	8587.1	8618.3	9089.1	8835.9	6146.4
37.5°	9659.6	9623.8	9407.1	9157.6	9042.7	9039.7	9137.8	9201.7	9636.0	9349.3	6313.0
40°	10494.0	10468.9	10279.5	10083.2	9858.1	9785.9	9937.2	9957.0	10351.0	9986.6	6525.9
42.5°	11139.0	11134.4	11099.4	11125.3	10894.8	10748.8	10867.4	10883.4	11224.1	10676.5	6752.6
45°	11479.7	11487.3	11656.9	12032.7	12117.8	12011.4	12069.9	12074.5	12222.0	11372.5	6960.2
47.5°	11206.6	11246.2	11675.2	12515.6	13213.1	13566.8	13469.4	13525.7	13189.5	11970.3	7123.0
50°	10142.6	10191.2	10921.4	12300.4	13724.2	15072.0	15021.0	15008.1	13969.9	12408.4	7211.2
52.5°	8824.5	8862.5	9464.9	11181.5	13349.3	15904.1	16371.9	16304.9	14663.6	12736.2	7228.0
55°	6817.2	6876.6	7453.9	8948.4	11832.6	15586.2	17365.2	17305.1	15295.6	12908.1	7208.2
57°	4846.5	4908.9	5482.4	6829.4	9953.9	14485.6	17464.1	17528.0	15637.1	12937.0	7230.2
57.5°	4324.8	4388.6	4956.8	6265.0	9368.3	14087.8	17378.9	17485.4	15698.7	12932.4	7242.4
60°	2177.6	2201.9	2564.0	3497.2	5922.0	11389.2	16267.7	16542.2	15754.3	12708.8	7294.9
62.5°	1353.9	1336.4	1325.0	1610.9	2881.1	7552.7	13974.5	14503.1	14691.7	12167.3	7167.9
65°	1190.3	1157.6	1032.1	1009.3	1272.5	3668.4	10523.6	11181.5	12421.3	11313.9	6865.2
67.5°	1118.1	1086.1	944.7	859.5	860.2	1454.3	6533.5	7274.4	9676.3	9871.0	6151.0
70°	1043.5	1014.6	882.3	781.9	732.5	805.5	3005.9	3568.0	6307.6	7758.9	5140.9
72.5°	947.7	927.9	802.4	699.0	646.5	603.2	1150.8	1359.2	3651.6	5210.9	3570.2
75°	847.3	829.1	721.8	622.9	559.0	474.6	648.0	698.2	1855.1	2665.9	1757.7
77.5°	737.0	726.4	641.9	550.7	499.7	393.2	458.6	483.0	795.6	1143.2	881.5
80°	586.4	607.0	561.3	490.6	443.4	314.9	324.8	340.7	463.2	558.3	500.5
82.5°	381.8	417.6	439.6	398.6	365.1	248.0	233.5	240.3	302.0	340.7	217.5
85°	159.0	178.7	289.0	260.9	242.6	181.0	156.7	159.7	187.1	194.0	89.0
87.5°	70.7	75.3	127.0	119.4	102.7	62.4	66.9	73.0	99.6	94.3	34.2
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°	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9	4908.9
2.5°	4913.5	4849.6	4740.0	4619.1	4520.2	4441.1	4361.3	4306.5	4242.6	4208.4	4190.9
5°	4917.3	4791.8	4561.3	4324.8	4113.3	3920.1	3736.1	3594.6	3462.2	3390.7	3371.0
7.5°	4933.2	4744.6	4371.9	3982.5	3606.8	3263.7	2999.0	2833.2	2713.8	2660.6	2645.4
10°	4946.2	4689.1	4137.7	3561.1	3050.0	2702.4	2497.0	2404.2	2363.2	2356.3	2349.5
12.5°	4976.6	4632.0	3891.2	3121.5	2617.2	2376.9	2305.4	2299.3	2310.7	2327.4	2327.4
15°	5024.5	4575.8	3609.8	2744.2	2341.9	2257.5	2271.9	2305.4	2336.6	2362.4	2366.2
17.5°	5059.5	4506.5	3307.1	2442.3	2195.1	2217.9	2269.6	2316.8	2348.7	2373.8	2376.1
20°	5084.6	4399.3	2983.8	2211.8	2110.7	2181.4	2246.0	2287.9	2309.9	2335.0	2338.8
22.5°	5071.7	4255.5	2697.1	2046.8	2042.2	2128.2	2189.8	2240.0	2223.2	2198.9	2214.9
25°	5009.3	4057.8	2402.0	1923.6	1969.9	2056.7	2132.7	2099.2	2043.0	2032.3	2038.4
27.5°	4898.2	3805.3	2128.9	1809.5	1886.3	1990.5	1985.9	1952.5	1932.7	1919.0	1927.4
30°	4778.8	3531.5	1890.1	1709.8	1793.5	1879.4	1861.9	1861.2	1841.4	1819.3	1830.0
32.5°	4660.9	3256.1	1700.7	1627.7	1723.5	1734.9	1773.0	1784.4	1745.6	1699.2	1696.1
35°	4558.3	2996.0	1556.9	1553.1	1639.1	1640.6	1696.1	1680.2	1583.6	1535.6	1535.6
37.5°	4481.4	2736.6	1447.4	1486.2	1528.0	1567.6	1595.7	1529.6	1513.6	1487.0	1486.2
40°	4448.0	2508.5	1379.0	1435.2	1449.7	1499.9	1427.6	1453.5	1461.1	1447.4	1447.4
42.5°	4413.0	2309.9	1319.6	1396.5	1394.2	1387.3	1350.8	1384.3	1414.7	1415.5	1413.2
45°	4378.0	2138.8	1267.2	1313.6	1345.5	1271.7	1278.6	1314.3	1356.9	1372.1	1372.1
47.5°	4339.2	2003.4	1219.2	1226.1	1275.5	1226.1	1220.8	1248.1	1298.3	1322.7	1328.0
50°	4254.0	1881.7	1164.5	1149.3	1163.0	1179.7	1184.3	1197.2	1252.7	1291.5	1300.6
52.5°	4136.1	1773.0	1094.5	1078.5	1078.5	1141.7	1163.0	1166.8	1213.9	1260.3	1269.4
55°	4038.0	1703.7	1022.2	1019.2	1016.2	1101.3	1137.9	1143.9	1176.6	1213.2	1217.7
57°	4044.9	1698.4	966.7	969.8	969.0	1060.3	1114.3	1127.2	1143.9	1175.1	1180.4
57.5°	4048.7	1702.2	954.6	956.1	955.3	1048.9	1107.4	1121.9	1134.8	1167.5	1172.8
60°	4105.7	1712.1	905.1	888.4	892.2	988.0	1068.6	1086.9	1095.3	1138.6	1145.5
62.5°	4021.3	1668.0	865.6	825.2	825.2	924.1	1014.6	1043.5	1056.5	1115.0	1126.4
65°	3776.4	1544.0	819.2	753.8	761.4	860.2	950.0	997.1	1016.9	1089.9	1102.1
67.5°	3398.4	1400.3	769.7	689.9	697.5	793.3	883.1	934.0	965.2	1062.6	1072.4
70°	2906.2	1224.6	702.8	622.2	631.3	720.3	804.0	861.8	908.2	1036.7	1039.7
72.5°	2142.6	1004.0	609.2	547.6	557.5	635.1	724.1	791.0	853.4	972.0	970.5
75°	1274.0	784.9	505.8	472.3	479.2	551.4	651.8	733.2	826.8	946.9	961.4
77.5°	772.8	591.0	412.2	395.5	403.9	477.7	600.1	686.8	815.4	892.9	888.4
80°	467.0	422.1	329.3	318.7	327.1	408.4	555.2	651.8	712.7	762.9	762.9
82.5°	244.2	257.8	241.9	233.5	244.9	331.6	505.0	568.9	629.8	540.8	505.0
85°	99.6	134.6	146.8	146.0	152.9	229.7	435.8	486.8	406.2	385.6	394.8
87.5°	33.5	57.0	71.5	61.6	64.7	144.5	302.0	235.0	279.1	194.7	184.8
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)