

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: P320928

Luminaire Tested: **GAN-SA4C-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320928
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-SA4C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26657 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

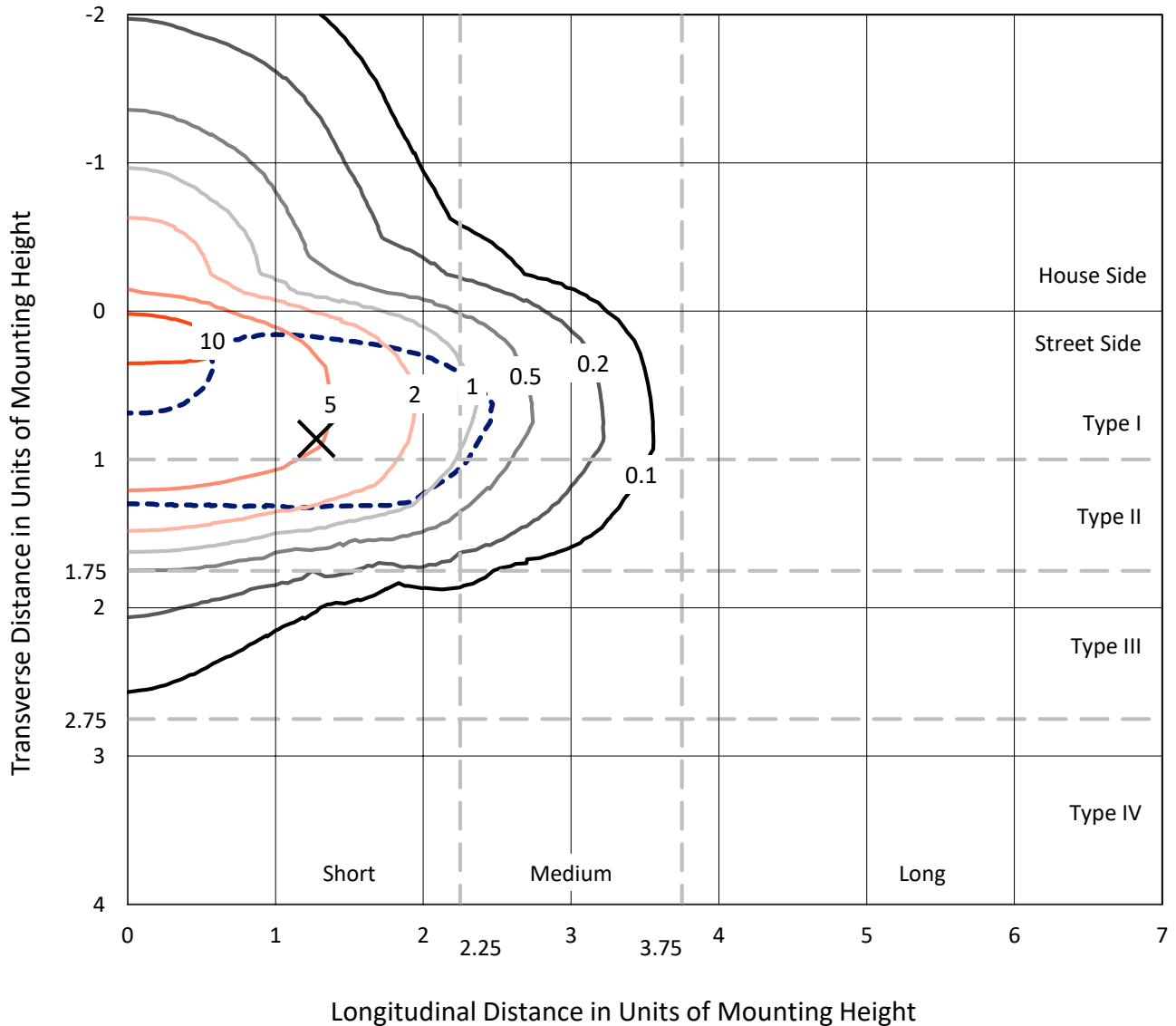
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320928
 CATALOG NUMBER: GAN-SA4C-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

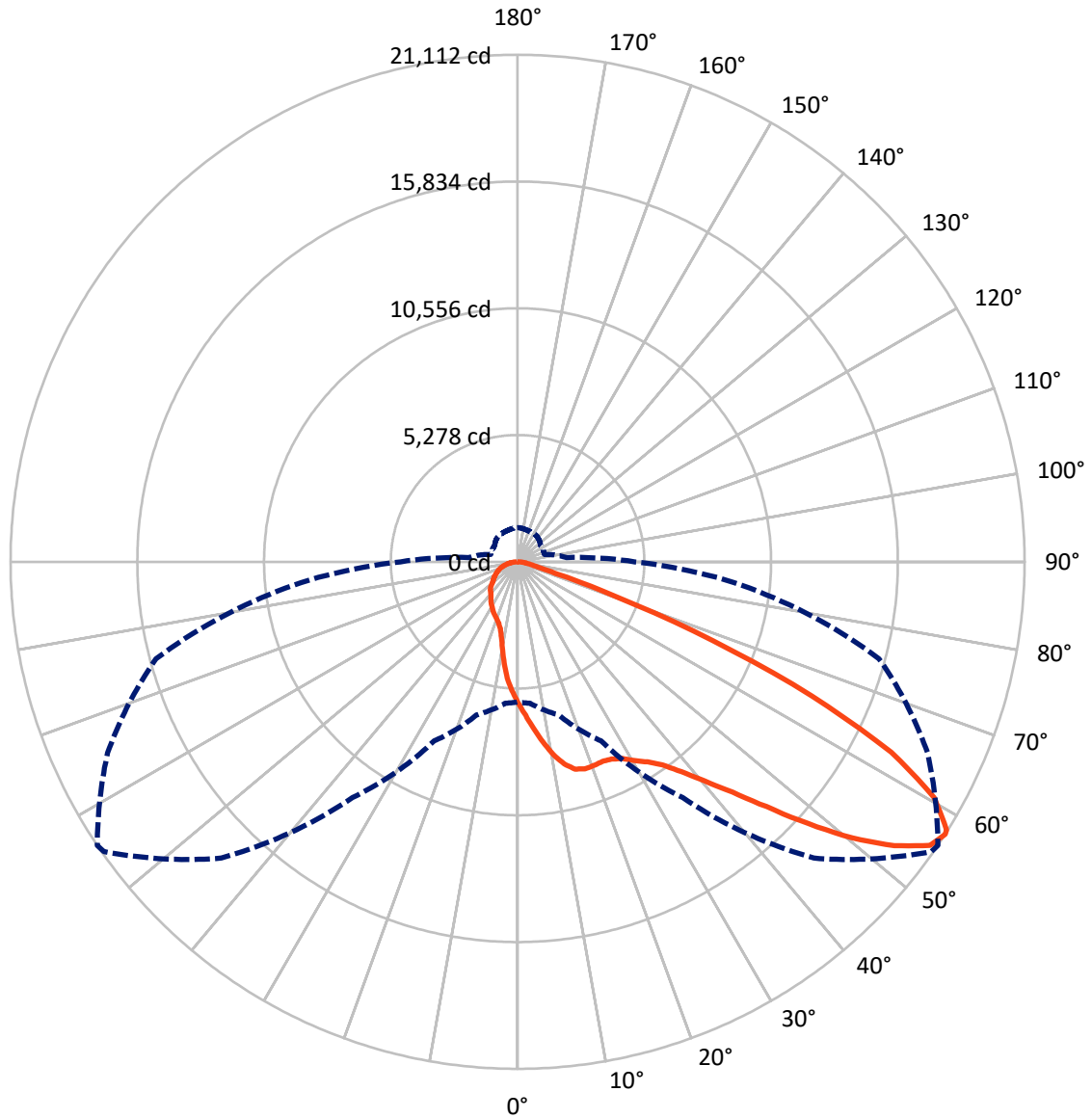
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

REPORT NUMBER: P320928
CATALOG NUMBER: GAN-SA4C-730-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P320928
 CATALOG NUMBER: GAN-SA4C-730-U-AFL

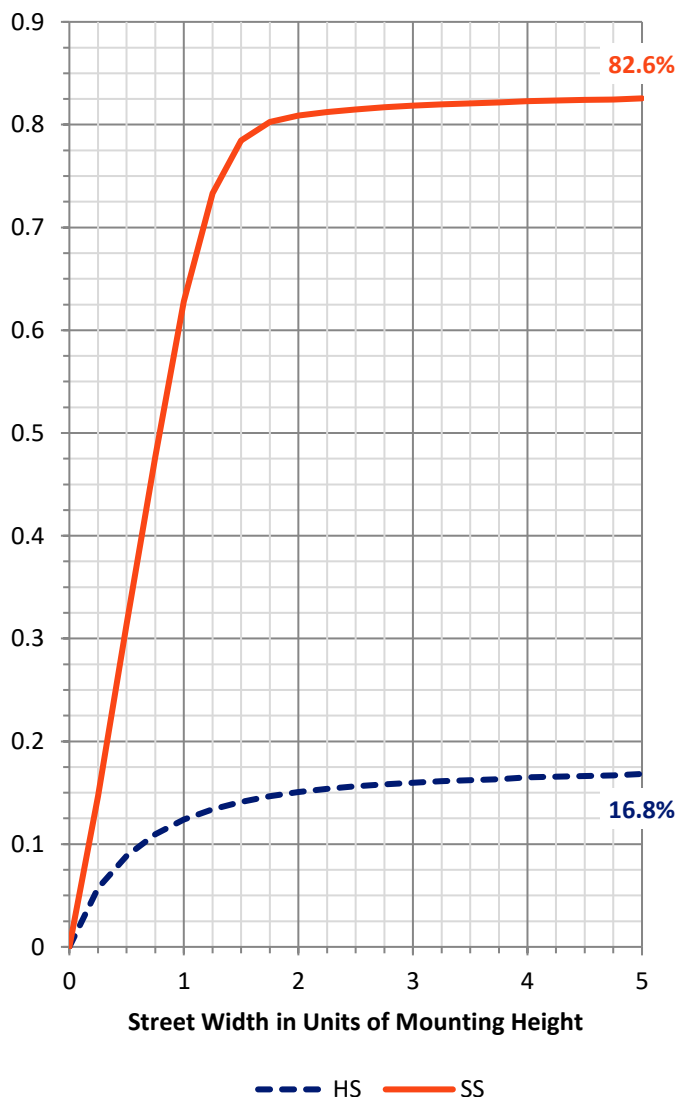
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4595.1	0.0	4595.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	22061.9	0.0	22061.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	26657.0	0.0	26657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.8	2.1
10°-20°	1596.8	6.0
20°-30°	2600.9	9.8
30°-40°	3888.1	14.6
40°-50°	5897.3	22.1
50°-60°	6609.9	24.8
60°-70°	3904.1	14.6
70°-80°	1279.1	4.8
80°-90°	316.0	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°	26657.0	100.0
0°-180°	26657.0	100.0

Coefficient of Utilization



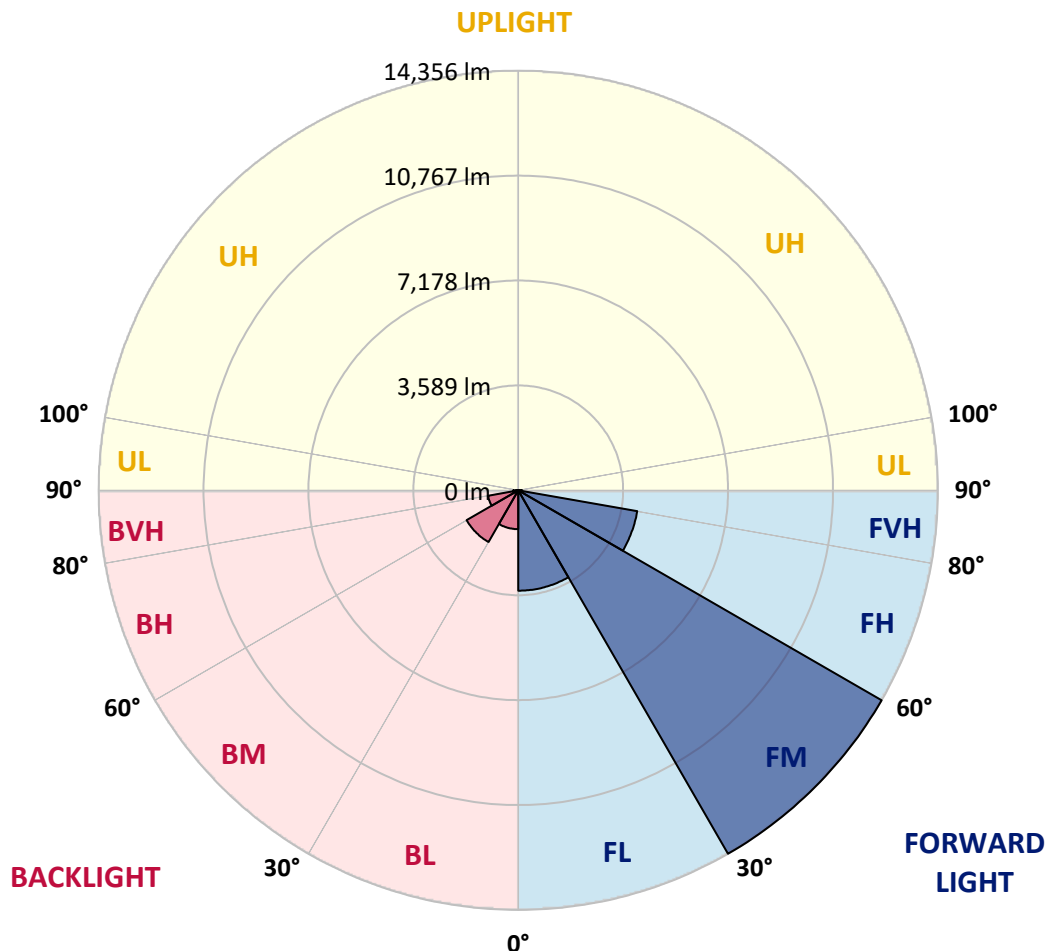
REPORT NUMBER: P320928
 CATALOG NUMBER: GAN-SA4C-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3433.8	12.9			
FM (30°-60°)	14355.7	53.9			
FH (60°-80°)	4133.3	15.5			G2/5000
FVH (80°-90°)	139.1	0.5			G2/225
BL (0°-30°)	1328.7	5.0	B3/2500		
BM (30°-60°)	2039.6	7.7	B2/2500		
BH (60°-80°)	1049.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	176.9	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-G3

Type II Short





REPORT NUMBER: P320928

CATALOG NUMBER: GAN-SA4C-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5
2.5°	6789.3	6851.6	6824.1	6728.8	6655.5	6552.0	6436.6	6401.7	6279.9	6143.4	5979.4
5°	7863.9	7832.7	7787.8	7639.4	7482.8	7300.4	7011.0	6965.2	6694.0	6385.3	6059.1
7.5°	8475.8	8473.1	8446.5	8359.5	8216.6	7978.4	7629.3	7575.3	7165.8	6669.3	6163.6
10°	8386.9	8380.5	8424.5	8515.2	8558.3	8508.8	8214.7	8160.7	7657.7	6983.5	6284.5
12.5°	7882.2	7885.8	7956.4	8146.9	8406.2	8717.7	8670.0	8643.5	8168.0	7338.9	6431.1
15°	7489.2	7497.4	7553.3	7719.1	8025.1	8590.3	8946.7	8955.9	8661.8	7731.0	6602.4
17.5°	7316.9	7334.3	7360.0	7476.3	7756.7	8336.6	9012.6	9062.1	9094.2	8137.8	6767.3
20°	7371.9	7388.4	7395.7	7469.9	7699.9	8182.7	8966.8	9055.7	9425.8	8520.7	6932.2
22.5°	7618.3	7628.4	7633.0	7652.2	7830.9	8226.6	8936.6	9030.1	9665.8	8864.2	7056.8
25°	8026.9	8019.6	7990.3	7965.5	8085.5	8400.7	9006.2	9095.1	9861.0	9175.7	7138.3
27.5°	8516.1	8507.0	8450.2	8382.4	8451.1	8671.9	9206.9	9277.4	10035.9	9467.0	7179.5
30°	9103.3	9079.5	8972.3	8891.7	8918.3	9078.6	9537.6	9601.7	10306.2	9797.8	7219.8
32.5°	9782.2	9756.5	9601.7	9468.0	9468.0	9601.7	9878.4	9931.5	10535.2	10171.5	7284.9
35°	10632.3	10600.3	10398.7	10174.3	10111.1	10178.9	10342.8	10380.4	10947.5	10642.4	7403.1
37.5°	11634.5	11591.5	11330.4	11029.9	10891.6	10887.9	11006.1	11083.0	11606.1	11260.8	7603.7
40°	12639.5	12609.3	12381.2	12144.8	11873.6	11786.6	11968.9	11992.7	12467.3	12028.5	7860.2
42.5°	13416.4	13410.9	13368.7	13399.9	13122.3	12946.4	13089.3	13108.6	13519.0	12859.4	8133.2
45°	13826.8	13835.9	14040.2	14492.8	14595.4	14467.1	14537.7	14543.2	14720.9	13697.6	8383.3
47.5°	13497.9	13545.5	14062.2	15074.5	15914.6	16340.6	16223.3	16291.1	15886.2	14417.7	8579.3
50°	12216.3	12274.9	13154.4	14815.3	16530.2	18153.6	18092.2	18076.6	16826.1	14945.4	8685.6
52.5°	10628.7	10674.5	11400.0	13467.7	16078.6	19155.8	19719.2	19638.6	17661.6	15340.2	8705.8
55°	8211.1	8282.5	8977.8	10778.0	14251.9	18772.8	20915.6	20843.2	18422.9	15547.2	8681.9
57°	5837.4	5912.5	6603.3	8225.7	11989.1	17447.2	21034.7	21111.7	18834.2	15582.0	8708.5
57.5°	5209.0	5285.9	5970.3	7546.0	11283.7	16968.1	20932.1	21060.4	18908.4	15576.5	8723.2
60°	2622.8	2652.1	3088.2	4212.3	7132.8	13717.8	19593.7	19924.4	18975.3	15307.2	8786.4
62.5°	1630.7	1609.6	1595.9	1940.3	3470.2	9096.9	16831.6	17468.3	17695.5	14654.9	8633.4
65°	1433.7	1394.3	1243.2	1215.7	1532.6	4418.4	12675.2	13467.7	14960.9	13627.1	8268.8
67.5°	1346.7	1308.2	1137.8	1035.2	1036.1	1751.6	7869.3	8761.6	11654.7	11889.2	7408.5
70°	1256.9	1222.1	1062.7	941.8	882.2	970.2	3620.5	4297.5	7597.3	9345.2	6192.0
72.5°	1141.5	1117.6	966.5	841.9	778.7	726.5	1386.1	1637.1	4398.2	6276.2	4300.2
75°	1020.5	998.6	869.4	750.3	673.3	571.7	780.5	841.0	2234.4	3211.0	2117.1
77.5°	887.7	874.9	773.2	663.3	601.9	473.6	552.4	581.7	958.2	1376.9	1061.8
80°	706.3	731.1	676.1	590.9	534.1	379.3	391.2	410.4	557.9	672.4	602.8
82.5°	459.9	502.9	529.5	480.0	439.7	298.7	281.2	289.5	363.7	410.4	262.0
85°	191.5	215.3	348.1	314.2	292.2	218.0	188.7	192.4	225.4	233.6	107.2
87.5°	85.2	90.7	153.0	143.8	123.7	75.1	80.6	87.9	120.0	113.6	41.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320928

CATALOG NUMBER: GAN-SA4C-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5	5912.5
2.5°	5918.0	5841.1	5709.2	5563.5	5444.4	5349.1	5253.0	5187.0	5110.0	5068.8	5047.7
5°	5922.6	5771.5	5493.9	5209.0	4954.3	4721.6	4499.9	4329.5	4170.1	4084.0	4060.2
7.5°	5941.9	5714.7	5265.8	4796.7	4344.2	3931.0	3612.2	3412.5	3268.7	3204.5	3186.2
10°	5957.4	5647.8	4983.6	4289.2	3673.6	3254.9	3007.6	2895.8	2846.3	2838.1	2829.9
12.5°	5994.1	5579.1	4686.8	3759.7	3152.3	2862.8	2776.7	2769.4	2783.1	2803.3	2803.3
15°	6051.8	5511.3	4347.8	3305.3	2820.7	2719.0	2736.4	2776.7	2814.3	2845.4	2850.0
17.5°	6093.9	5427.9	3983.2	2941.6	2643.9	2671.4	2733.7	2790.5	2828.9	2859.2	2861.9
20°	6124.2	5298.8	3593.9	2664.0	2542.2	2627.4	2705.3	2755.6	2782.2	2812.4	2817.0
22.5°	6108.6	5125.6	3248.5	2465.2	2459.7	2563.3	2637.5	2697.9	2677.8	2648.5	2667.7
25°	6033.5	4887.4	2893.1	2316.8	2372.7	2477.2	2568.8	2528.5	2460.7	2447.8	2455.2
27.5°	5899.7	4583.3	2564.2	2179.4	2271.9	2397.4	2392.0	2351.6	2327.8	2311.3	2321.4
30°	5755.9	4253.5	2276.5	2059.4	2160.2	2263.7	2242.6	2241.7	2217.9	2191.3	2204.2
32.5°	5613.9	3921.8	2048.4	1960.5	2075.9	2089.6	2135.4	2149.2	2102.5	2046.6	2042.9
35°	5490.2	3608.5	1875.3	1870.7	1974.2	1976.0	2042.9	2023.7	1907.3	1849.6	1849.6
37.5°	5397.7	3296.1	1743.3	1790.1	1840.5	1888.1	1922.0	1842.3	1823.1	1791.0	1790.1
40°	5357.4	3021.3	1660.9	1728.7	1746.1	1806.6	1719.5	1750.7	1759.8	1743.3	1743.3
42.5°	5315.2	2782.2	1589.4	1682.0	1679.2	1671.0	1627.0	1667.3	1704.0	1704.9	1702.1
45°	5273.1	2576.1	1526.2	1582.1	1620.6	1531.7	1540.0	1583.0	1634.3	1652.7	1652.7
47.5°	5226.4	2413.0	1468.5	1476.8	1536.3	1476.8	1470.3	1503.3	1563.8	1593.1	1599.5
50°	5123.8	2266.4	1402.6	1384.2	1400.7	1420.9	1426.4	1442.0	1508.8	1555.5	1566.5
52.5°	4981.8	2135.4	1318.3	1299.0	1299.0	1375.1	1400.7	1405.3	1462.1	1518.0	1529.0
55°	4863.6	2052.1	1231.2	1227.6	1223.9	1326.5	1370.5	1377.8	1417.2	1461.2	1466.7
57°	4871.9	2045.7	1164.4	1168.0	1167.1	1277.1	1342.1	1357.7	1377.8	1415.4	1421.8
57.5°	4876.4	2050.2	1149.7	1151.5	1150.6	1263.3	1333.9	1351.3	1366.8	1406.2	1412.6
60°	4945.1	2062.2	1090.2	1070.0	1074.6	1190.0	1287.1	1309.1	1319.2	1371.4	1379.7
62.5°	4843.5	2009.0	1042.5	994.0	994.0	1113.1	1222.1	1256.9	1272.5	1343.0	1356.8
65°	4548.5	1859.7	986.6	907.9	917.0	1036.1	1144.2	1201.0	1224.8	1312.8	1327.4
67.5°	4093.2	1686.6	927.1	830.9	840.1	955.5	1063.6	1125.0	1162.5	1279.8	1291.7
70°	3500.4	1474.9	846.5	749.4	760.4	867.6	968.3	1037.9	1093.8	1248.7	1252.3
72.5°	2580.7	1209.3	733.8	659.6	671.5	764.9	872.1	952.8	1027.9	1170.8	1169.0
75°	1534.5	945.4	609.2	568.9	577.1	664.2	785.1	883.1	995.8	1140.6	1158.0
77.5°	930.8	711.8	496.5	476.4	486.5	575.3	722.8	827.2	982.1	1075.5	1070.0
80°	562.5	508.4	396.7	383.8	393.9	491.9	668.8	785.1	858.4	918.9	918.9
82.5°	294.1	310.6	291.3	281.2	295.0	399.4	608.3	685.2	758.5	651.4	608.3
85°	120.0	162.2	176.8	175.9	184.1	276.7	524.9	586.3	489.2	464.5	475.5
87.5°	40.3	68.7	86.1	74.2	77.9	174.1	363.7	283.1	336.2	234.5	222.6
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)