

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: P317489

Luminaire Tested: **GAN-SA5C-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317489
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-SA5C-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 36829 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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

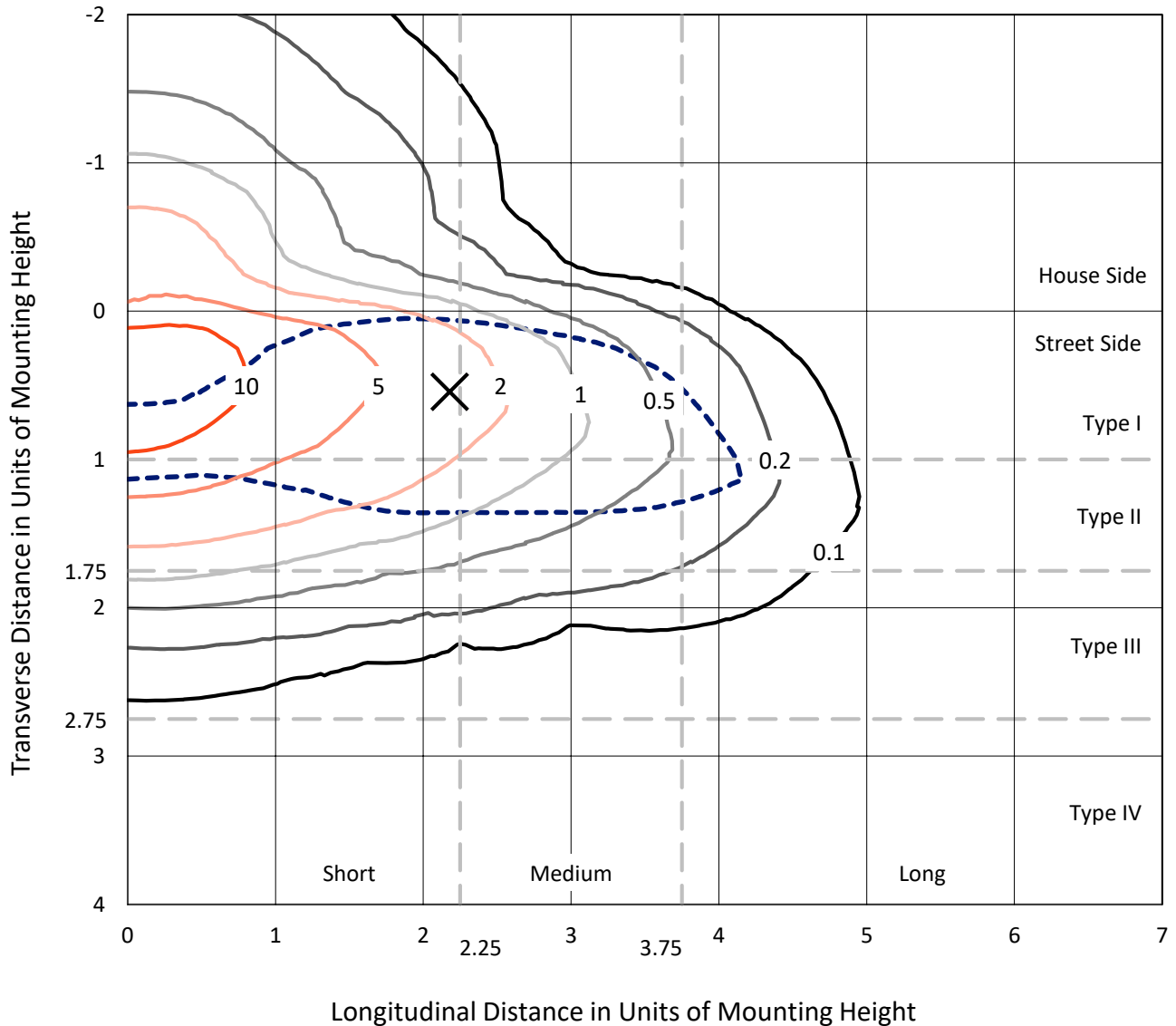




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Iso-Footcandle Lines of Horizontal Illumination

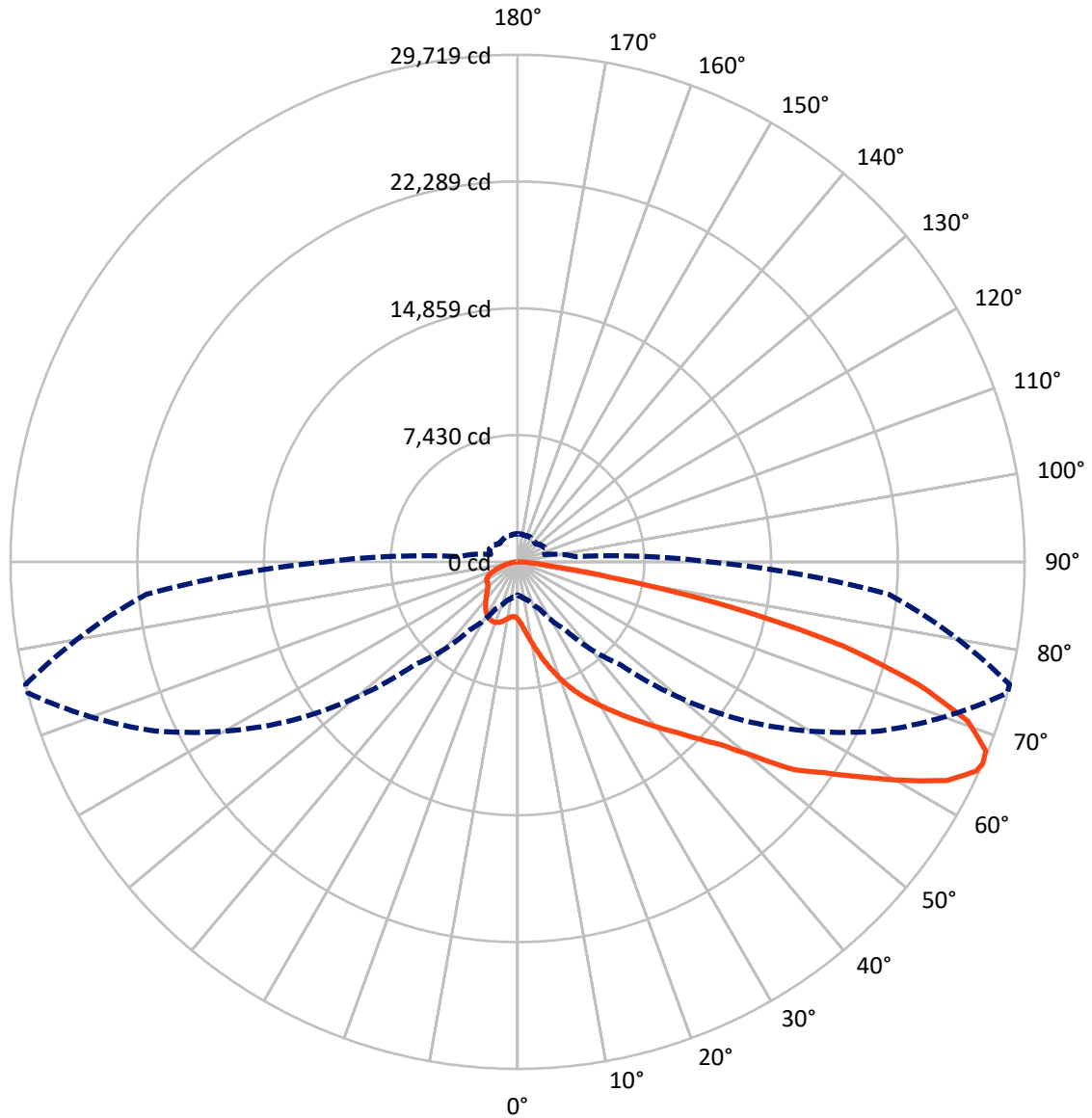
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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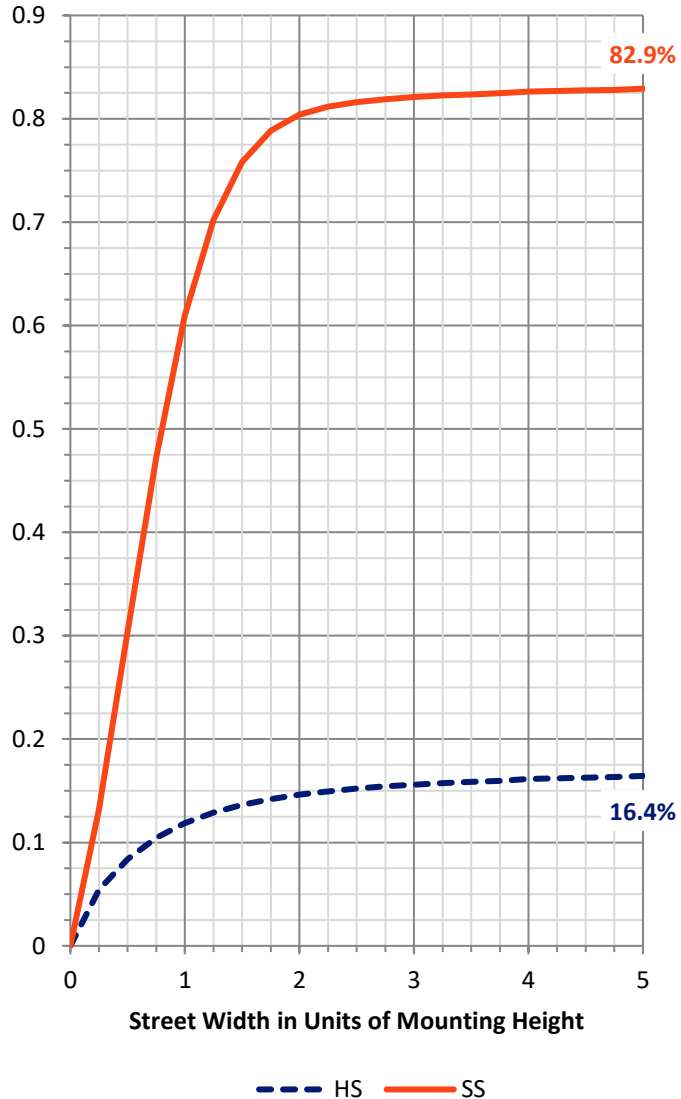
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6197.0	0.0	6197.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	30631.9	0.0	30631.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	36829.0	0.0	36829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	1.1
10°-20°	1606.1	4.4
20°-30°	3121.0	8.5
30°-40°	5094.2	13.8
40°-50°	6959.9	18.9
50°-60°	8106.9	22.0
60°-70°	7268.0	19.7
70°-80°	3672.9	10.0
80°-90°	593.1	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°	36829.0	100.0
0°-180°	36829.0	100.0

Coefficient of Utilization



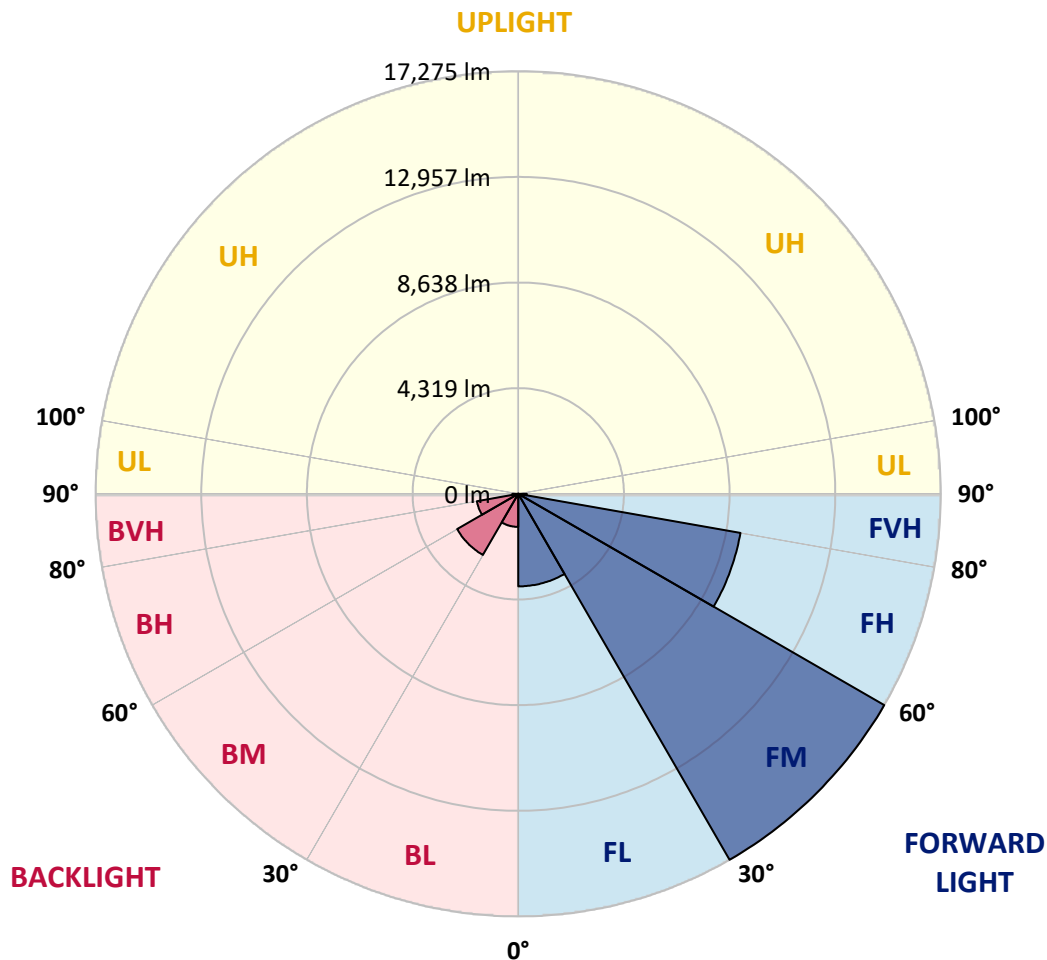
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3782.2	10.3			
FM (30°-60°)	17275.4	46.9			
FH (60°-80°)	9224.1	25.0			G4/12000
FVH (80°-90°)	350.3	1.0			G3/500
BL (0°-30°)	1351.6	3.7	B3/2500		
BM (30°-60°)	2885.7	7.8	B3/5000		
BH (60°-80°)	1716.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	242.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3
2.5°	4464.8	4397.3	4391.1	4292.3	4269.8	4081.0	3942.2	3797.2	3632.1	3599.6	3469.6
5°	5735.1	5728.9	5642.6	5481.3	5355.1	5032.5	4713.6	4376.1	4006.0	3946.0	3653.4
7.5°	6877.9	6867.9	6801.7	6627.9	6445.3	6049.0	5593.9	5076.2	4476.1	4387.3	3902.2
10°	7745.6	7741.9	7719.4	7591.8	7436.8	7056.7	6554.1	5847.7	5022.5	4901.2	4213.5
12.5°	8415.8	8423.3	8438.3	8393.3	8319.5	7995.7	7480.6	6665.4	5605.1	5485.1	4559.9
15°	8869.7	8892.2	8969.7	9033.4	9072.2	8873.4	8374.5	7501.8	6257.8	6114.0	4943.7
17.5°	9098.5	9123.5	9257.3	9449.8	9627.3	9607.3	9211.0	8299.5	6884.2	6745.4	5356.3
20°	9296.0	9314.8	9464.8	9696.1	10009.9	10148.7	9926.2	9067.2	7570.6	7405.6	5793.9
22.5°	9868.7	9892.4	9937.4	10068.7	10346.3	10601.3	10493.8	9793.6	8199.5	8045.7	6209.0
25°	10973.9	11002.7	10905.2	10793.9	10846.4	11023.9	11043.9	10456.3	8837.2	8663.4	6655.4
27.5°	12305.5	12346.8	12180.5	11894.1	11644.1	11575.3	11551.6	10998.9	9446.0	9244.7	7096.7
30°	13609.6	13680.8	13464.5	13093.2	12634.3	12311.7	12072.9	11530.3	10046.2	9853.6	7513.1
32.5°	14883.6	14854.9	14541.0	14178.4	13640.8	13237.0	12659.3	12100.4	10721.4	10500.1	7926.9
35°	15756.3	15766.3	15475.0	15044.9	14532.3	14222.2	13444.5	12715.6	11410.3	11206.5	8397.0
37.5°	16499.0	16452.8	16122.7	15721.3	15280.0	15147.4	14363.5	13393.3	12156.7	11934.2	8897.2
40°	16746.6	16692.8	16476.5	16187.7	15833.9	15822.6	15377.5	14160.9	13000.7	12780.6	9461.1
42.5°	16596.5	16527.8	16439.0	16360.2	16251.5	16301.5	16330.2	15061.2	13928.4	13682.1	10113.7
45°	16042.7	15938.9	16001.4	16172.7	16409.0	16691.6	17190.4	16057.7	14967.4	14761.1	10880.1
47.5°	15191.2	15097.4	15292.5	15658.8	16301.5	17016.6	18004.4	17157.9	16207.7	16002.6	11971.7
50°	13993.4	14020.9	14299.7	14966.1	15937.6	17166.7	19007.1	18614.5	18010.6	17819.3	13460.8
52.5°	12027.9	12032.9	12818.1	13912.1	15292.5	17089.2	19563.5	20476.2	20472.5	20241.2	14878.6
55°	10202.5	10313.8	10935.2	12389.3	14247.2	16779.1	19952.4	21381.5	22089.1	21817.8	16200.2
57.5°	8419.5	8484.6	9073.5	10533.8	12755.6	15952.6	20351.2	22468.0	23952.1	23780.8	17843.1
60°	6391.6	6491.6	7100.5	8449.6	10847.6	14486.0	20388.7	23602.0	26178.9	26006.3	19677.3
62.5°	4148.5	4321.1	4891.2	6155.2	8539.6	12376.8	19518.5	24343.4	28289.4	28228.1	21305.2
65°	2384.3	2514.4	2910.7	3885.9	5891.4	9728.6	17449.2	24058.4	29588.4	29553.4	21914.1
66°	1948.0	2029.2	2333.1	3037.0	4861.2	8543.3	16246.5	23457.0	29717.2	29718.5	21844.1
67.5°	1557.9	1594.1	1730.4	2174.3	3587.1	6771.6	14097.2	22130.4	29557.2	29601.0	21392.7
70°	1289.1	1307.8	1350.3	1457.9	1958.0	4083.5	10006.2	18683.3	27950.6	27984.3	19631.0
72.5°	1156.5	1167.8	1184.0	1199.0	1381.6	2281.8	6111.5	14946.1	24506.0	24549.7	16946.6
75°	1047.8	1054.0	1051.5	1052.8	1159.0	1454.1	3158.3	11159.0	19814.8	19727.3	12981.9
77.5°	920.2	926.5	914.0	916.5	1025.2	1117.8	1571.6	7811.9	13372.0	12754.4	7314.3
80°	777.7	782.7	777.7	786.4	892.7	844.0	914.0	4394.8	5912.7	5592.6	2600.6
82.5°	587.6	608.9	623.9	658.9	735.2	600.1	611.4	1711.7	1800.4	1714.2	797.7
85°	257.6	313.8	470.1	503.9	552.6	360.1	401.3	697.7	732.7	710.2	290.1
87.5°	67.5	73.8	232.6	292.6	306.3	162.5	208.8	317.6	335.1	317.6	96.3
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°	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3
2.5°	3400.8	3339.6	3229.5	3132.0	3058.2	3008.2	2958.2	2933.2	2918.2	2903.2	2905.7
5°	3509.6	3385.8	3197.0	3063.2	2988.2	2940.7	2915.7	2905.7	2899.5	2884.5	2884.5
7.5°	3673.4	3498.4	3238.3	3100.8	3042.0	3005.7	2990.7	2985.7	2978.2	2960.7	2963.2
10°	3879.7	3634.6	3324.6	3190.8	3137.0	3097.0	3075.7	3068.2	3054.5	3034.5	3037.0
12.5°	4122.3	3803.4	3438.3	3298.3	3233.3	3179.5	3144.5	3123.3	3099.5	3073.2	3074.5
15°	4387.3	3987.2	3560.9	3394.6	3305.8	3230.8	3174.5	3138.3	3100.8	3068.2	3067.0
17.5°	4656.1	4164.8	3654.6	3447.1	3327.1	3228.3	3152.0	3095.8	3049.5	3009.5	3005.7
20°	4946.2	4324.8	3707.2	3442.1	3287.0	3169.5	3068.2	2998.2	2947.0	2907.0	2900.7
22.5°	5241.3	4474.8	3715.9	3390.8	3198.3	3054.5	2948.2	2870.7	2818.2	2776.9	2761.9
25°	5511.3	4591.1	3679.6	3292.1	3074.5	2919.5	2815.7	2736.9	2694.4	2645.6	2630.6
27.5°	5757.7	4672.4	3607.1	3165.8	2935.7	2783.2	2685.7	2618.1	2571.9	2534.4	2521.9
30°	5979.0	4716.1	3488.3	3015.7	2793.2	2654.4	2571.9	2525.6	2485.6	2438.1	2429.3
32.5°	6189.0	4716.1	3335.8	2851.9	2651.9	2540.6	2491.9	2463.1	2418.1	2371.8	2359.3
35°	6399.1	4687.4	3155.8	2680.7	2521.9	2459.3	2456.8	2423.1	2354.3	2291.8	2275.6
37.5°	6620.4	4628.6	2953.2	2520.6	2415.6	2423.1	2444.3	2369.3	2271.8	2183.0	2159.3
40°	6870.4	4547.4	2743.2	2381.8	2326.8	2406.8	2410.6	2291.8	2101.8	2020.5	1999.2
42.5°	7164.2	4466.1	2548.1	2259.3	2256.8	2358.1	2346.8	2124.3	2010.5	1969.2	1958.0
45°	7550.6	4419.8	2363.1	2143.0	2201.8	2279.3	2238.0	2031.7	1984.2	1960.5	1950.5
47.5°	8159.5	4443.6	2193.0	2050.5	2146.8	2200.5	2035.5	1994.2	1960.5	1931.7	1921.7
50°	8922.2	4429.8	2055.5	1986.7	2084.3	2118.0	1944.2	1945.5	1928.0	1895.5	1880.5
52.5°	9496.1	4322.3	1966.7	1950.5	2029.2	1971.7	1886.7	1898.0	1889.2	1841.7	1825.4
55°	10049.9	4229.8	1921.7	1936.7	1989.2	1789.2	1819.2	1846.7	1837.9	1791.7	1784.2
57.5°	10738.9	4212.3	1894.2	1940.5	1955.5	1697.9	1754.2	1790.4	1784.2	1764.2	1760.4
60°	11582.8	4217.3	1869.2	1946.7	1918.0	1630.4	1692.9	1739.2	1742.9	1739.2	1736.7
62.5°	12046.7	4081.0	1806.7	1929.2	1851.7	1571.6	1629.1	1696.7	1697.9	1705.4	1704.2
65°	11652.8	3673.4	1690.4	1868.0	1740.4	1522.9	1574.1	1647.9	1629.1	1662.9	1662.9
66°	11270.2	3438.3	1632.9	1827.9	1692.9	1504.1	1556.6	1622.9	1599.1	1645.4	1645.4
67.5°	10488.8	3042.0	1529.1	1742.9	1625.4	1477.9	1536.6	1581.6	1549.1	1617.9	1612.9
70°	9061.0	2353.1	1320.3	1550.4	1514.1	1439.1	1509.1	1499.1	1451.6	1556.6	1536.6
72.5°	7639.4	1787.9	1060.3	1297.8	1345.3	1390.3	1470.4	1394.1	1334.1	1407.8	1364.1
75°	5927.7	1344.1	837.7	1009.0	1136.5	1314.1	1424.1	1272.8	1186.5	1179.0	1155.3
77.5°	3204.5	922.7	663.9	770.2	902.7	1219.0	1392.8	1142.8	1012.7	982.7	964.0
80°	1269.1	600.1	482.6	583.9	631.4	1081.5	1317.8	991.5	835.2	805.2	776.4
82.5°	523.9	355.1	311.3	391.3	411.4	925.2	1182.8	812.7	645.2	892.7	947.7
85°	225.1	195.0	185.0	202.5	232.6	648.9	941.5	620.2	696.4	621.4	493.9
87.5°	67.5	82.5	78.8	77.5	85.0	155.0	501.4	345.1	511.4	193.8	145.0
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)