

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: P320979

Luminaire Tested: **GAN-SA5D-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320979
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-SA5D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39784 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

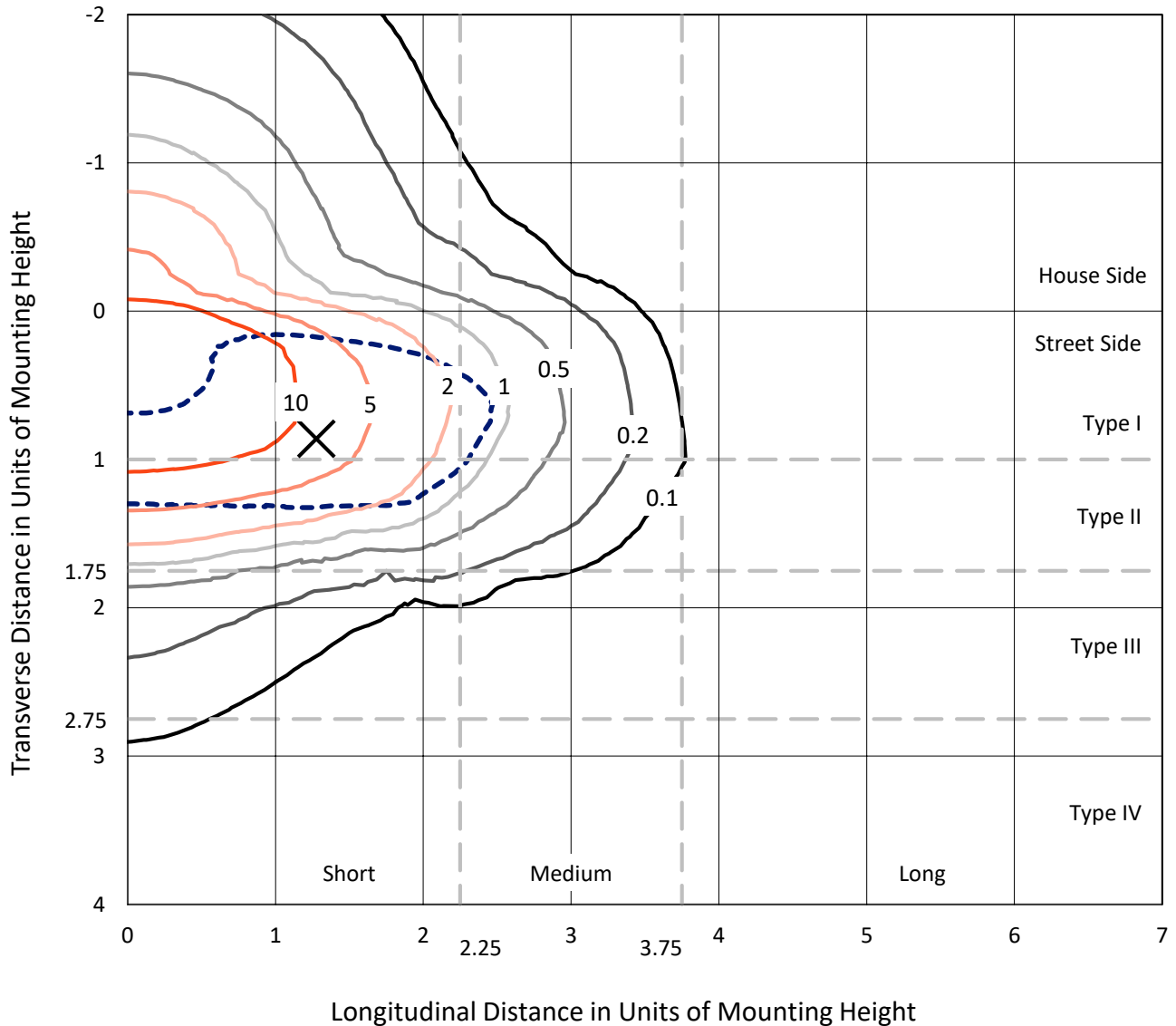
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

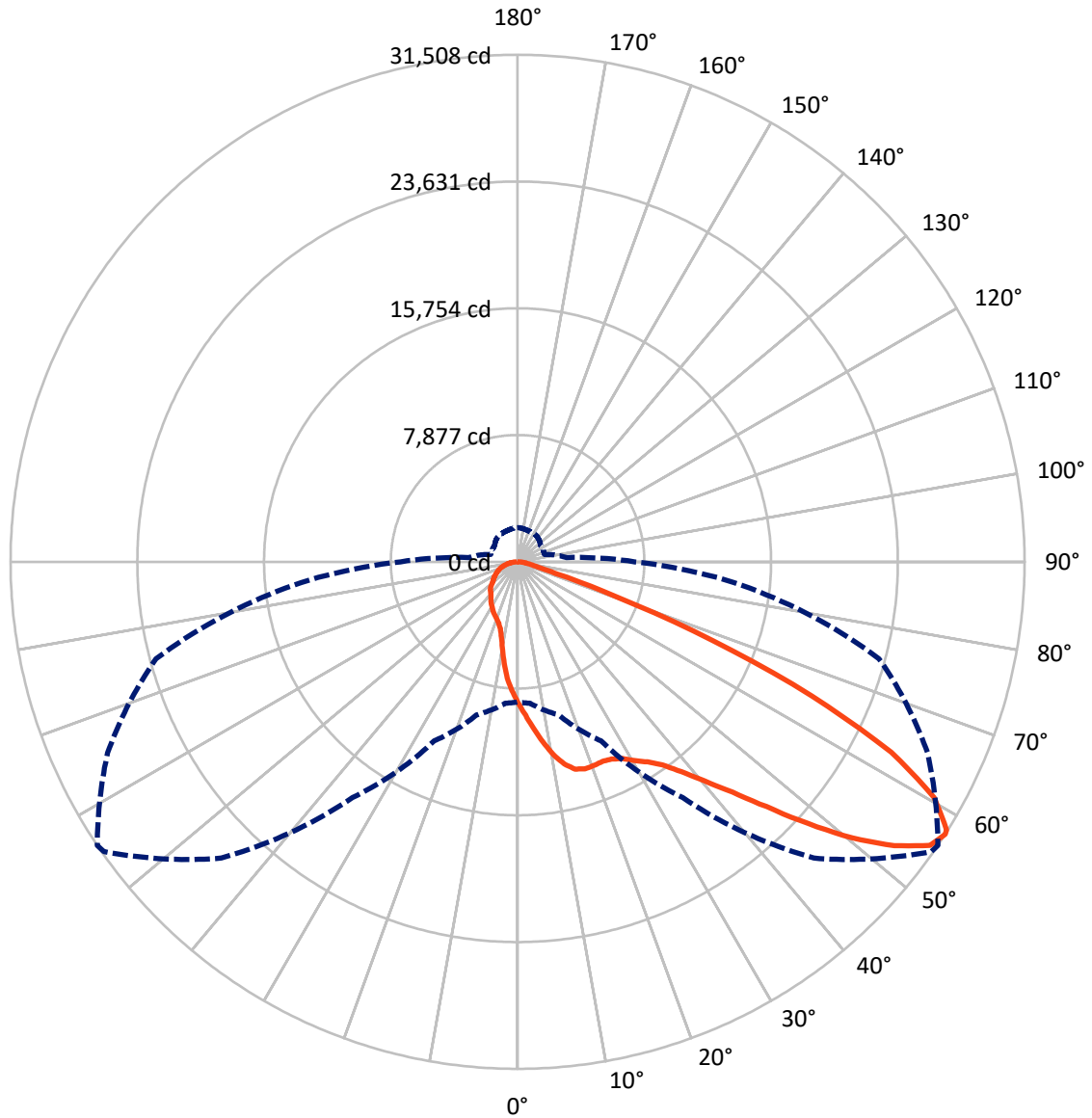
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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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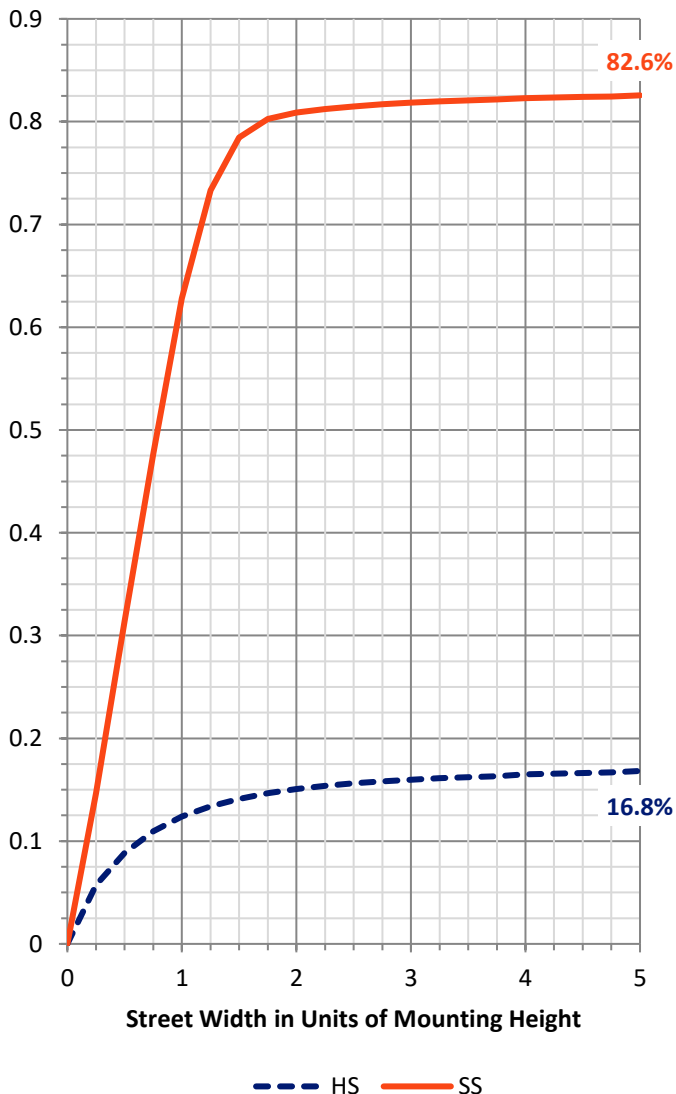
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6857.9	0.0	6857.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	32926.1	0.0	32926.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	39784.0	0.0	39784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.9	2.1
10°-20°	2383.1	6.0
20°-30°	3881.7	9.8
30°-40°	5802.7	14.6
40°-50°	8801.4	22.1
50°-60°	9864.9	24.8
60°-70°	5826.6	14.6
70°-80°	1909.0	4.8
80°-90°	471.6	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°	39784.0	100.0
0°-180°	39784.0	100.0

Coefficient of Utilization



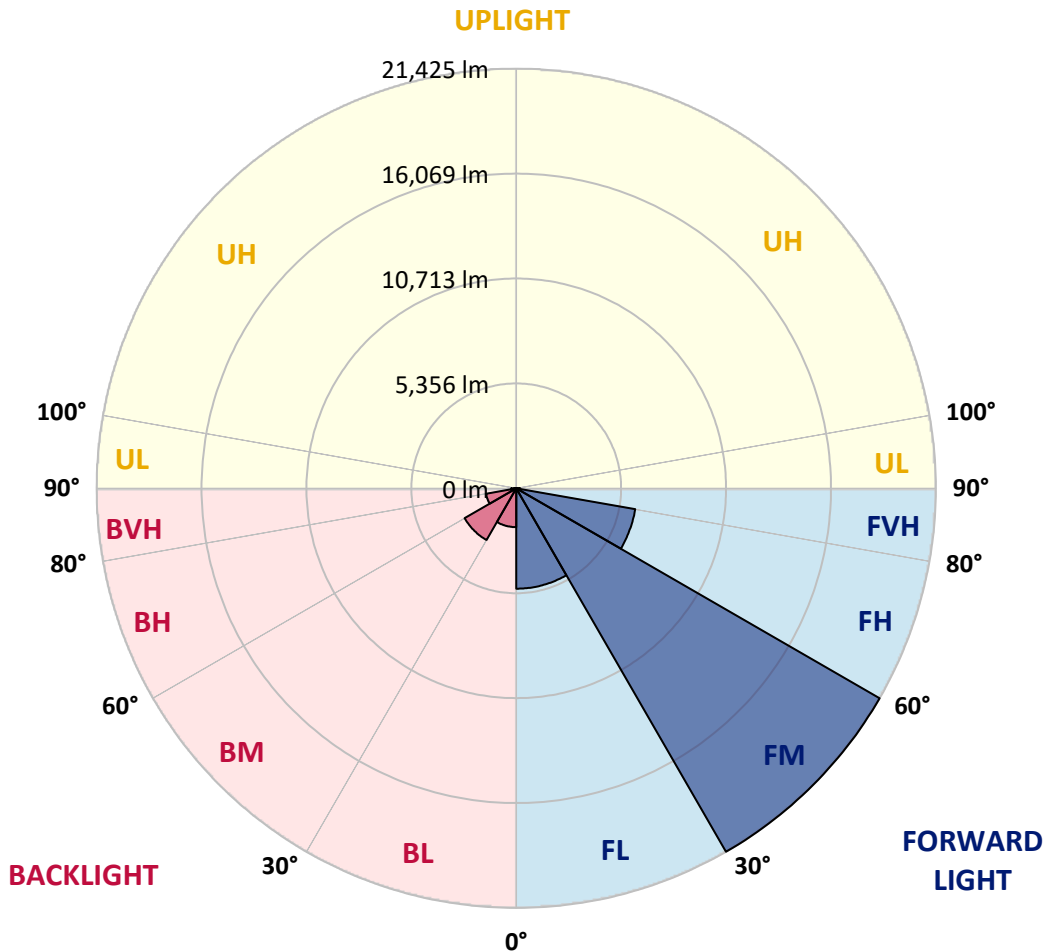
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5124.8	12.9			
FM (30°-60°)	21425.0	53.9			
FH (60°-80°)	6168.6	15.5			G3/7500
FVH (80°-90°)	207.7	0.5			G2/225
BL (0°-30°)	1983.0	5.0	B3/2500		
BM (30°-60°)	3044.0	7.7	B3/5000		
BH (60°-80°)	1566.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	264.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1
2.5°	10132.6	10225.5	10184.5	10042.3	9933.0	9778.5	9606.2	9554.2	9372.4	9168.7	8923.9
5°	11736.3	11689.8	11622.9	11401.4	11167.6	10895.5	10463.4	10395.1	9990.4	9529.6	9042.9
7.5°	12649.6	12645.5	12605.9	12476.0	12262.7	11907.2	11386.3	11305.7	10694.5	9953.5	9198.7
10°	12517.0	12507.5	12573.1	12708.4	12772.7	12698.9	12260.0	12179.3	11428.7	10422.4	9379.2
12.5°	11763.7	11769.1	11874.4	12158.8	12545.7	13010.6	12939.5	12899.9	12190.3	10952.9	9598.0
15°	11177.1	11189.4	11272.8	11520.3	11977.0	12820.6	13352.4	13366.1	12927.2	11538.1	9853.7
17.5°	10920.1	10946.1	10984.4	11158.0	11576.4	12441.8	13450.8	13524.7	13572.5	12145.1	10099.8
20°	11002.1	11026.7	11037.7	11148.4	11491.6	12212.1	13382.5	13515.1	14067.5	12716.6	10345.9
22.5°	11369.9	11385.0	11391.8	11420.5	11687.1	12277.8	13337.4	13476.8	14425.7	13229.4	10531.8
25°	11979.7	11968.8	11925.0	11888.1	12067.2	12537.5	13441.3	13573.9	14716.9	13694.2	10653.5
27.5°	12709.8	12696.1	12611.4	12510.2	12612.7	12942.2	13740.7	13846.0	14978.0	14129.0	10715.0
30°	13586.2	13550.7	13390.7	13270.4	13310.0	13549.3	14234.3	14330.0	15381.4	14622.6	10775.2
32.5°	14599.3	14561.0	14330.0	14130.4	14130.4	14330.0	14742.9	14822.2	15723.2	15180.4	10872.2
35°	15868.1	15820.3	15519.5	15184.5	15090.2	15191.3	15436.1	15492.1	16338.4	15883.2	11048.6
37.5°	17363.9	17299.6	16909.9	16461.5	16255.0	16249.6	16425.9	16540.8	17321.5	16806.0	11348.0
40°	18863.7	18818.6	18478.2	18125.4	17720.7	17590.8	17862.9	17898.5	18606.7	17951.8	11730.9
42.5°	20023.1	20014.9	19952.0	19998.5	19584.3	19321.7	19535.0	19563.7	20176.3	19191.9	12138.3
45°	20635.7	20649.3	20954.2	21629.6	21782.8	21591.4	21696.6	21704.8	21970.1	20442.9	12511.6
47.5°	20144.8	20215.9	20987.0	22497.8	23751.6	24387.4	24212.3	24313.5	23709.2	21517.5	12804.1
50°	18232.1	18319.6	19632.1	22110.9	24670.4	27093.1	27001.5	26978.3	25112.0	22305.1	12962.7
52.5°	15862.6	15931.0	17013.9	20099.7	23996.3	28588.9	29429.7	29309.4	26358.9	22894.3	12992.8
55°	12254.5	12361.2	13398.9	16085.5	21270.1	28017.4	31215.3	31107.3	27495.1	23203.3	12957.3
57°	8712.0	8824.1	9855.0	12276.4	17893.0	26039.0	31393.1	31507.9	28109.0	23255.3	12996.9
57.5°	7774.1	7888.9	8910.3	11261.9	16840.2	25323.9	31239.9	31431.3	28219.7	23247.1	13018.8
60°	3914.4	3958.1	4608.9	6286.5	10645.3	20473.0	29242.4	29736.0	28319.5	22845.1	13113.1
62.5°	2433.7	2402.2	2381.7	2895.8	5179.1	13576.6	25120.2	26070.4	26409.5	21871.6	12884.8
65°	2139.7	2080.9	1855.3	1814.3	2287.4	6594.2	18917.0	20099.7	22328.3	20337.6	12340.7
67.5°	2009.8	1952.4	1698.1	1545.0	1546.3	2614.2	11744.5	13076.2	17393.9	17744.0	11056.8
70°	1875.8	1823.9	1586.0	1405.5	1316.6	1447.9	5403.3	6413.7	11338.5	13947.2	9241.1
72.5°	1703.6	1668.0	1442.4	1256.5	1162.1	1084.2	2068.6	2443.2	6564.1	9366.9	6417.8
75°	1523.1	1490.3	1297.5	1119.8	1004.9	853.2	1164.9	1255.1	3334.7	4792.2	3159.7
77.5°	1324.8	1305.7	1153.9	989.9	898.3	706.9	824.4	868.2	1430.1	2055.0	1584.6
80°	1054.1	1091.1	1009.0	881.9	797.1	566.0	583.8	612.5	832.6	1003.5	899.6
82.5°	686.4	750.6	790.3	716.4	656.3	445.7	419.7	432.0	542.8	612.5	391.0
85°	285.8	321.3	519.5	469.0	436.1	325.4	281.7	287.1	336.3	348.6	160.0
87.5°	127.2	135.4	228.3	214.7	184.6	112.1	120.3	131.3	179.1	169.5	61.5
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°	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1	8824.1
2.5°	8832.3	8717.5	8520.6	8303.2	8125.5	7983.3	7839.7	7741.3	7626.4	7564.9	7533.5
5°	8839.2	8613.6	8199.3	7774.1	7394.0	7046.7	6715.9	6461.5	6223.6	6095.1	6059.6
7.5°	8867.9	8528.8	7858.9	7158.8	6483.4	5866.8	5391.0	5092.9	4878.3	4782.6	4755.2
10°	8891.1	8429.0	7437.8	6401.4	5482.6	4857.8	4488.6	4321.8	4248.0	4235.7	4223.4
12.5°	8945.8	8326.5	6994.8	5611.1	4704.7	4272.6	4144.1	4133.1	4153.7	4183.7	4183.7
15°	9031.9	8225.3	6488.9	4933.0	4209.7	4058.0	4083.9	4144.1	4200.1	4246.6	4253.5
17.5°	9094.8	8100.9	5944.7	4390.2	3945.8	3986.9	4079.8	4164.6	4222.0	4267.1	4271.2
20°	9140.0	7908.1	5363.7	3975.9	3794.1	3921.2	4037.4	4112.6	4152.3	4197.4	4204.2
22.5°	9116.7	7649.7	4848.2	3679.2	3671.0	3825.5	3936.3	4026.5	3996.4	3952.7	3981.4
25°	9004.6	7294.2	4317.7	3457.7	3541.1	3697.0	3833.7	3773.6	3672.4	3653.2	3664.2
27.5°	8805.0	6840.3	3826.9	3252.6	3390.7	3578.1	3569.8	3509.7	3474.1	3449.5	3464.6
30°	8590.3	6348.1	3397.6	3073.5	3223.9	3378.4	3347.0	3345.6	3310.1	3270.4	3289.6
32.5°	8378.4	5853.1	3057.1	2925.9	3098.2	3118.7	3187.0	3207.5	3137.8	3054.4	3048.9
35°	8193.8	5385.5	2798.7	2791.9	2946.4	2949.1	3048.9	3020.2	2846.6	2760.4	2760.4
37.5°	8055.7	4919.3	2601.8	2671.6	2746.8	2817.9	2868.5	2749.5	2720.8	2672.9	2671.6
40°	7995.6	4509.1	2478.8	2580.0	2605.9	2696.2	2566.3	2612.8	2626.5	2601.8	2601.8
42.5°	7932.7	4152.3	2372.2	2510.2	2506.1	2493.8	2428.2	2488.4	2543.1	2544.4	2540.3
45°	7869.8	3844.7	2277.8	2361.2	2418.6	2286.0	2298.3	2362.6	2439.1	2466.5	2466.5
47.5°	7800.1	3601.3	2191.7	2204.0	2292.9	2204.0	2194.4	2243.6	2333.9	2377.6	2387.2
50°	7646.9	3382.5	2093.2	2065.9	2090.5	2120.6	2128.8	2152.0	2251.8	2321.6	2338.0
52.5°	7435.0	3187.0	1967.4	1938.7	1938.7	2052.2	2090.5	2097.3	2182.1	2265.5	2281.9
55°	7258.6	3062.6	1837.6	1832.1	1826.6	1979.8	2045.4	2056.3	2115.1	2180.7	2188.9
57°	7270.9	3053.0	1737.8	1743.2	1741.9	1905.9	2003.0	2026.2	2056.3	2112.4	2121.9
57.5°	7277.8	3059.9	1715.9	1718.6	1717.2	1885.4	1990.7	2016.7	2039.9	2098.7	2108.3
60°	7380.3	3077.6	1627.0	1596.9	1603.8	1776.0	1921.0	1953.8	1968.8	2046.7	2059.1
62.5°	7228.6	2998.3	1555.9	1483.4	1483.4	1661.2	1823.9	1875.8	1899.1	2004.4	2024.9
65°	6788.3	2775.5	1472.5	1354.9	1368.6	1546.3	1707.7	1792.4	1828.0	1959.2	1981.1
67.5°	6108.8	2517.1	1383.6	1240.1	1253.8	1426.0	1587.4	1679.0	1735.0	1910.0	1927.8
70°	5224.2	2201.2	1263.3	1118.4	1134.8	1294.8	1445.2	1549.1	1632.5	1863.5	1869.0
72.5°	3851.5	1804.7	1095.2	984.4	1002.2	1141.6	1301.6	1421.9	1534.0	1747.3	1744.6
75°	2290.1	1411.0	909.2	849.1	861.4	991.2	1171.7	1318.0	1486.2	1702.2	1728.2
77.5°	1389.1	1062.3	741.0	711.0	726.0	858.6	1078.7	1234.6	1465.7	1605.1	1596.9
80°	839.5	758.8	592.0	572.9	587.9	734.2	998.1	1171.7	1281.1	1371.3	1371.3
82.5°	438.9	463.5	434.8	419.7	440.2	596.1	907.8	1022.7	1132.1	972.1	907.8
85°	179.1	242.0	263.9	262.5	274.8	412.9	783.4	875.0	730.1	693.2	709.6
87.5°	60.2	102.5	128.5	110.7	116.2	259.8	542.8	422.5	501.8	350.0	332.2
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)