

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: P320980

Luminaire Tested: **GAN-SA6D-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320980
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-SA6D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 47610 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

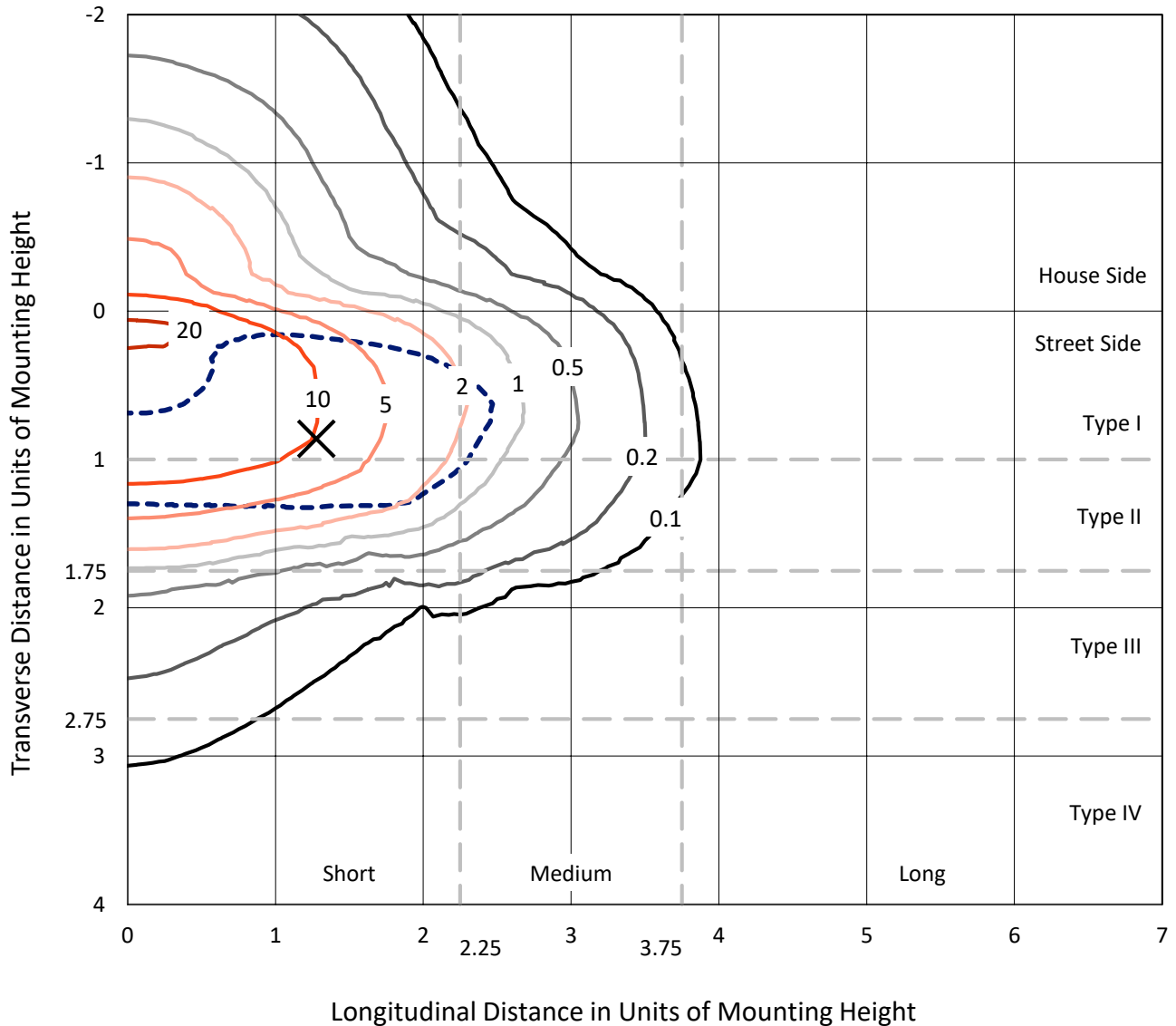
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

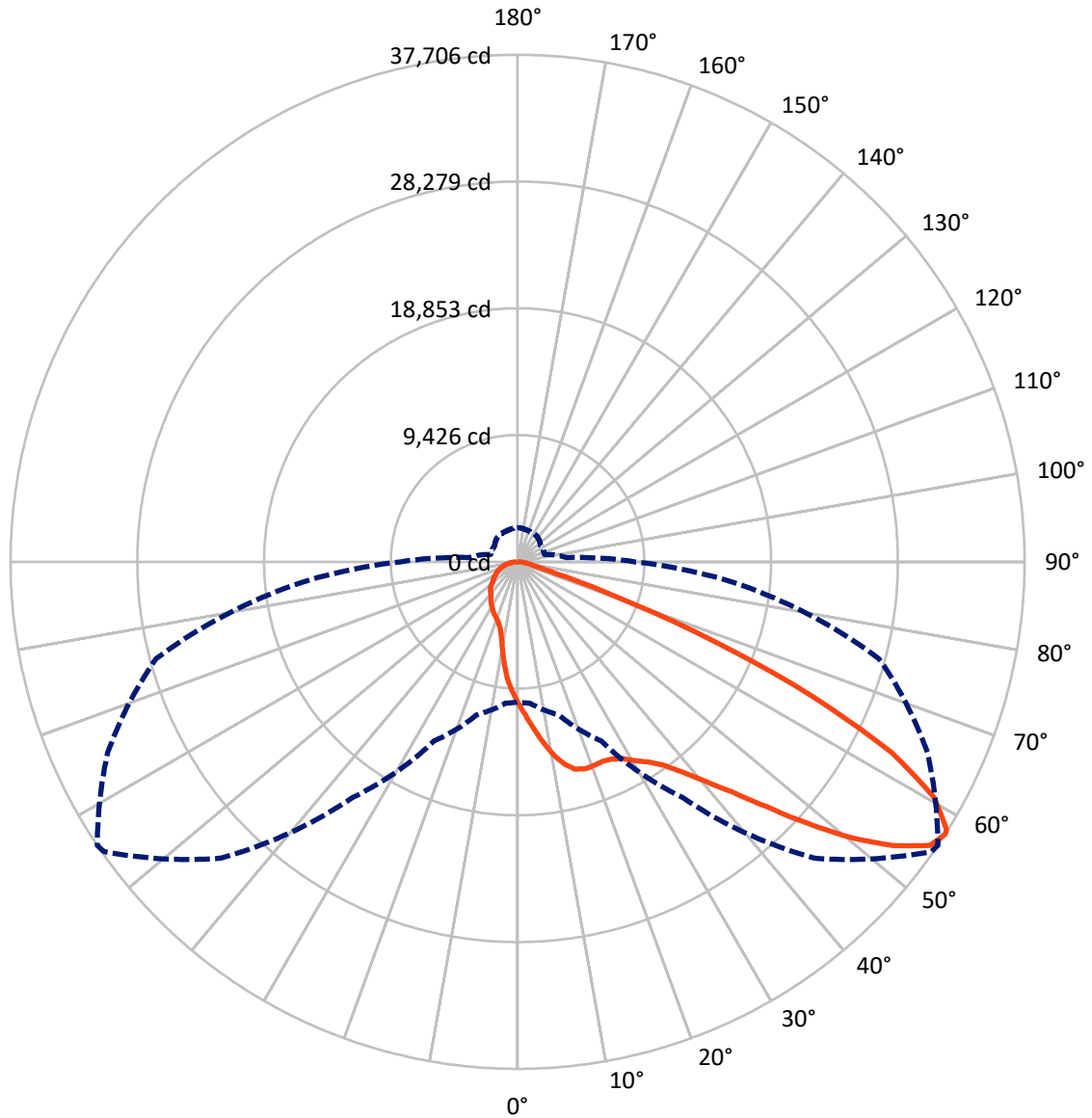
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 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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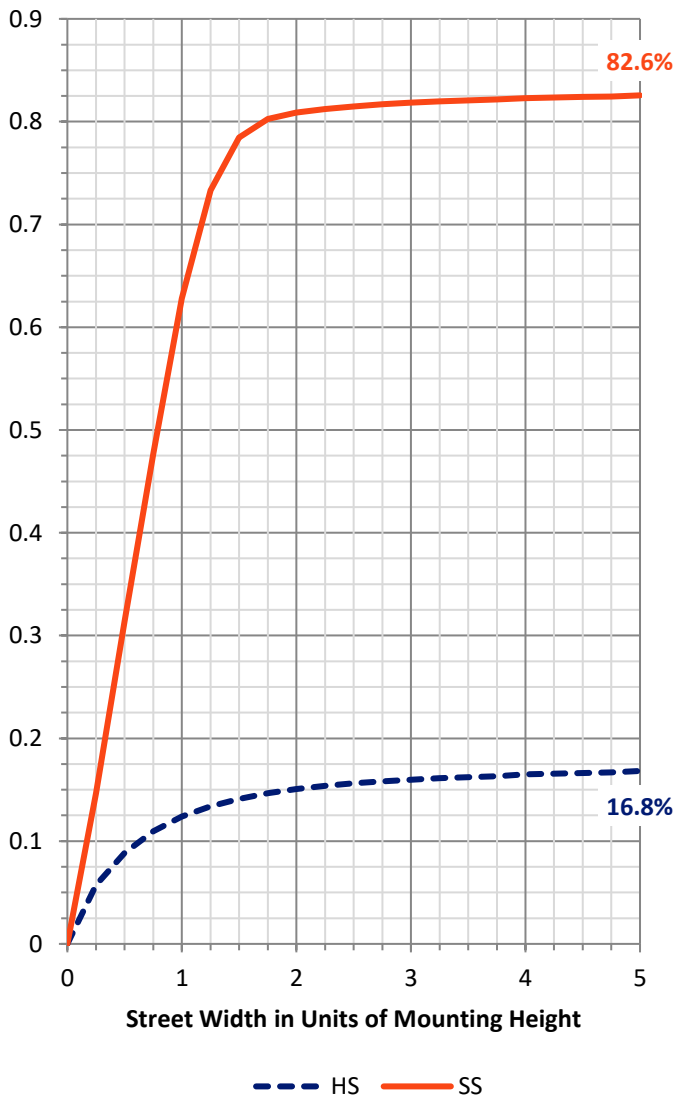
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8206.9	0.0	8206.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	39403.0	0.0	39403.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	47610.0	0.0	47610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.7	2.1
10°-20°	2851.9	6.0
20°-30°	4645.3	9.8
30°-40°	6944.1	14.6
40°-50°	10532.8	22.1
50°-60°	11805.4	24.8
60°-70°	6972.7	14.6
70°-80°	2284.5	4.8
80°-90°	564.4	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°	47610.0	100.0
0°-180°	47610.0	100.0

Coefficient of Utilization

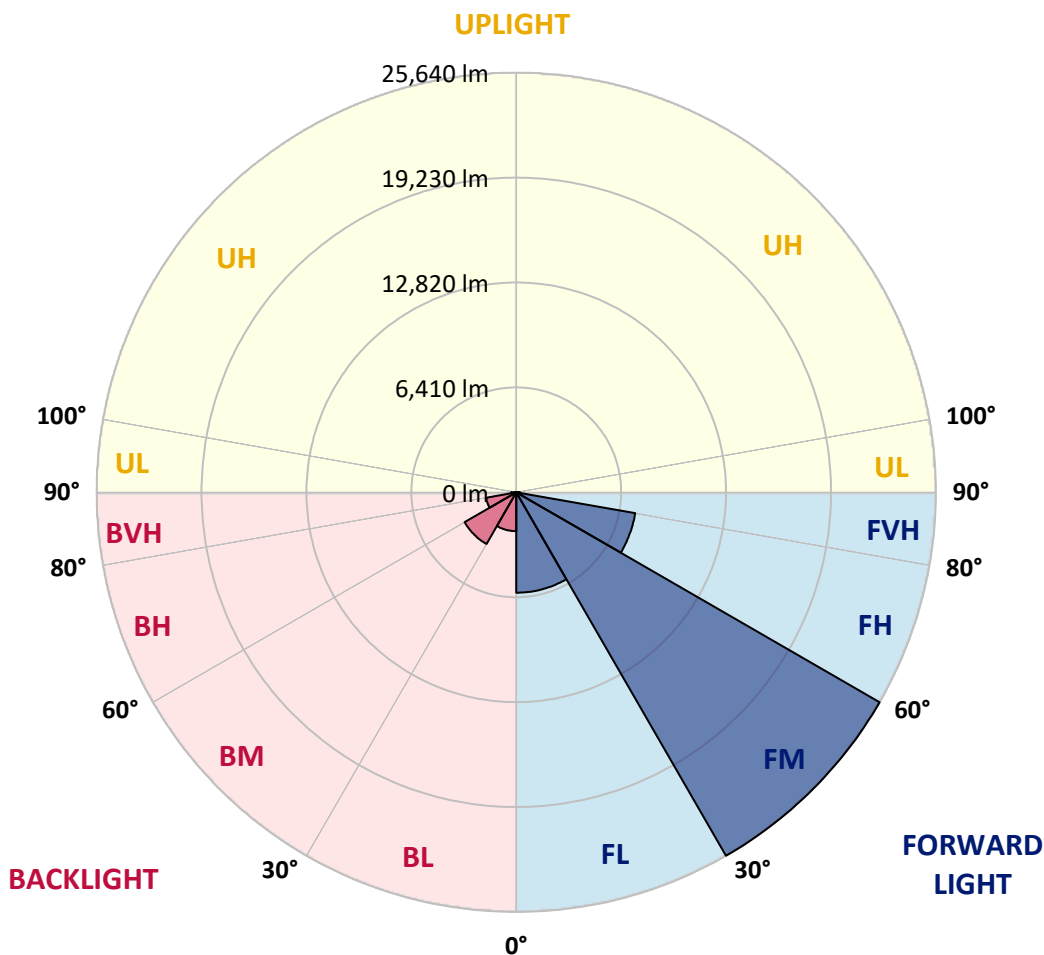


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6132.9	12.9			
FM (30°-60°)	25639.6	53.9			
FH (60°-80°)	7382.1	15.5			G3/7500
FVH (80°-90°)	248.5	0.5			G3/500
BL (0°-30°)	2373.1	5.0	B3/2500		
BM (30°-60°)	3642.8	7.7	B3/5000		
BH (60°-80°)	1875.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	315.9	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9
2.5°	12125.8	12237.0	12187.9	12017.8	11886.9	11702.0	11495.8	11433.7	11216.1	10972.3	10679.4
5°	14045.0	13989.4	13909.2	13644.2	13364.4	13038.8	12521.7	12439.9	11955.6	11404.2	10821.7
7.5°	15138.0	15133.1	15085.6	14930.2	14674.9	14249.5	13626.2	13529.6	12798.2	11911.4	11008.3
10°	14979.3	14967.8	15046.4	15208.3	15285.2	15196.9	14671.7	14575.1	13676.9	12472.6	11224.2
12.5°	14077.7	14084.3	14210.3	14550.6	15013.6	15569.9	15484.9	15437.4	14588.2	13107.5	11486.0
15°	13375.8	13390.5	13490.3	13786.5	14333.0	15342.5	15979.0	15995.3	15470.1	13807.8	11792.0
17.5°	13068.2	13099.3	13145.1	13352.9	13853.6	14889.3	16096.8	16185.1	16242.4	14534.2	12086.5
20°	13166.4	13195.8	13208.9	13341.5	13752.1	14614.4	16015.0	16173.7	16834.7	15218.2	12381.0
22.5°	13606.5	13624.5	13632.7	13667.1	13986.1	14692.9	15961.0	16127.9	17263.4	15831.7	12603.5
25°	14336.3	14323.2	14270.8	14226.6	14441.0	15003.8	16085.3	16244.0	17611.9	16388.0	12749.2
27.5°	15210.0	15193.6	15092.2	14971.1	15093.8	15488.1	16443.7	16569.7	17924.4	16908.3	12822.8
30°	16258.8	16216.2	16024.8	15880.8	15928.3	16214.6	17034.3	17148.9	18407.1	17499.0	12894.8
32.5°	17471.2	17425.4	17148.9	16910.0	16910.0	17148.9	17643.0	17737.9	18816.1	18166.6	13010.9
35°	18989.6	18932.3	18572.3	18171.5	18058.6	18179.7	18472.5	18539.6	19552.4	19007.6	13222.0
37.5°	20779.6	20702.7	20236.3	19699.7	19452.6	19446.1	19657.1	19794.6	20728.8	20112.0	13580.3
40°	22574.5	22520.5	22113.0	21690.9	21206.6	21051.2	21376.8	21419.3	22266.8	21483.1	14038.5
42.5°	23961.9	23952.1	23876.9	23932.5	23436.7	23122.6	23377.8	23412.2	24145.2	22967.1	14526.1
45°	24694.9	24711.3	25076.2	25884.5	26067.7	25838.6	25964.6	25974.4	26291.9	24464.2	14972.7
47.5°	24107.6	24192.6	25115.4	26923.4	28423.8	29184.6	28975.2	29096.3	28373.1	25750.3	15322.9
50°	21818.5	21923.2	23494.0	26460.4	29523.3	32422.7	32313.0	32285.2	30051.8	26692.7	15512.7
52.5°	18983.0	19064.8	20360.7	24053.6	28716.7	34212.6	35218.9	35074.9	31544.0	27397.9	15548.7
55°	14665.1	14792.8	16034.6	19249.7	25454.1	33528.7	37355.8	37226.5	32903.7	27767.7	15506.1
57°	10425.8	10559.9	11793.6	14691.3	21412.8	31161.2	37568.5	37705.9	33638.3	27829.9	15553.6
57.5°	9303.4	9440.8	10663.0	13477.3	20152.9	30305.4	37385.2	37614.3	33770.9	27820.1	15579.8
60°	4684.4	4736.8	5515.6	7523.2	12739.3	24500.2	34994.7	35585.4	33890.3	27339.0	15692.7
62.5°	2912.4	2874.8	2850.2	3465.4	6197.9	16247.3	30061.6	31198.8	31604.6	26174.1	15419.4
65°	2560.6	2490.3	2220.3	2171.2	2737.3	7891.3	22638.3	24053.6	26720.5	24338.3	14768.2
67.5°	2405.2	2336.5	2032.1	1848.9	1850.5	3128.4	14054.8	15648.5	20815.6	21234.4	13231.8
70°	2244.8	2182.7	1898.0	1682.0	1575.6	1732.7	6466.2	7675.3	13568.9	16690.7	11059.0
72.5°	2038.7	1996.1	1726.2	1503.7	1390.8	1297.5	2475.5	2923.9	7855.3	11209.5	7680.3
75°	1822.7	1783.4	1552.7	1340.0	1202.6	1021.0	1394.0	1502.0	3990.7	5734.8	3781.2
77.5°	1585.5	1562.6	1380.9	1184.6	1075.0	845.9	986.6	1039.0	1711.5	2459.2	1896.3
80°	1261.5	1305.7	1207.5	1055.3	953.9	677.4	698.7	733.0	996.4	1201.0	1076.6
82.5°	821.4	898.3	945.7	857.4	785.4	533.4	502.3	517.0	649.6	733.0	467.9
85°	342.0	384.5	621.8	561.2	521.9	389.4	337.1	343.6	402.5	417.2	191.4
87.5°	152.2	162.0	273.2	256.9	220.9	134.2	144.0	157.1	214.3	202.9	73.6
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°	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9	10559.9
2.5°	10569.8	10432.3	10196.7	9936.6	9723.9	9553.7	9381.9	9264.1	9126.6	9053.0	9015.4
5°	10577.9	10308.0	9812.2	9303.4	8848.5	8432.9	8036.9	7732.6	7447.9	7294.1	7251.6
7.5°	10612.3	10206.5	9404.8	8567.1	7758.8	7020.9	6451.5	6094.8	5837.9	5723.4	5690.7
10°	10640.1	10087.1	8900.8	7660.6	6561.1	5813.4	5371.6	5172.0	5083.6	5068.9	5054.2
12.5°	10705.6	9964.4	8370.7	6714.9	5630.1	5113.1	4959.3	4946.2	4970.7	5006.7	5006.7
15°	10808.6	9843.3	7765.3	5903.4	5037.8	4856.2	4887.3	4959.3	5026.4	5082.0	5090.2
17.5°	10883.9	9694.4	7114.1	5253.8	4722.0	4771.1	4882.4	4983.8	5052.5	5106.5	5111.4
20°	10937.9	9463.7	6418.8	4758.0	4540.4	4692.6	4831.7	4921.6	4969.1	5023.1	5031.3
22.5°	10910.1	9154.5	5801.9	4403.0	4393.2	4578.0	4710.6	4818.6	4782.6	4730.2	4764.6
25°	10775.9	8729.0	5167.1	4137.9	4237.7	4424.2	4587.9	4515.9	4394.8	4371.9	4385.0
27.5°	10537.0	8185.8	4579.7	3892.5	4057.7	4281.9	4272.1	4200.1	4157.5	4128.1	4146.1
30°	10280.2	7596.8	4065.9	3678.1	3858.1	4043.0	4005.4	4003.7	3961.2	3913.8	3936.7
32.5°	10026.5	7004.5	3658.5	3501.4	3707.6	3732.1	3813.9	3838.5	3755.0	3655.2	3648.7
35°	9805.7	6444.9	3349.3	3341.1	3526.0	3529.3	3648.7	3614.3	3406.5	3303.5	3303.5
37.5°	9640.4	5887.0	3113.7	3197.1	3287.1	3372.2	3432.7	3290.4	3256.0	3198.7	3197.1
40°	9568.4	5396.1	2966.4	3087.5	3118.6	3226.6	3071.1	3126.8	3143.1	3113.7	3113.7
42.5°	9493.1	4969.1	2838.8	3004.0	2999.1	2984.4	2905.9	2977.9	3043.3	3044.9	3040.0
45°	9417.9	4601.0	2725.9	2825.7	2894.4	2735.7	2750.4	2827.3	2919.0	2951.7	2951.7
47.5°	9334.4	4309.7	2622.8	2637.5	2743.9	2637.5	2626.1	2685.0	2793.0	2845.3	2856.8
50°	9151.2	4047.9	2505.0	2472.3	2501.7	2537.7	2547.5	2575.4	2694.8	2778.2	2797.9
52.5°	8897.6	3813.9	2354.5	2320.1	2320.1	2455.9	2501.7	2509.9	2611.4	2711.2	2730.8
55°	8686.5	3665.1	2199.0	2192.5	2185.9	2369.2	2447.7	2460.8	2531.2	2609.7	2619.5
57°	8701.2	3653.6	2079.6	2086.1	2084.5	2280.8	2397.0	2424.8	2460.8	2527.9	2539.4
57.5°	8709.4	3661.8	2053.4	2056.7	2055.0	2256.3	2382.3	2413.4	2441.2	2511.5	2523.0
60°	8832.1	3683.1	1947.1	1911.1	1919.2	2125.4	2298.8	2338.1	2356.1	2449.4	2464.1
62.5°	8650.5	3588.2	1862.0	1775.3	1775.3	1988.0	2182.7	2244.8	2272.7	2398.6	2423.2
65°	8123.7	3321.5	1762.2	1621.5	1637.8	1850.5	2043.6	2145.0	2187.6	2344.7	2370.8
67.5°	7310.5	3012.2	1655.8	1484.0	1500.4	1706.5	1899.6	2009.2	2076.3	2285.8	2307.0
70°	6251.9	2634.3	1511.8	1338.4	1358.0	1549.5	1729.4	1853.8	1953.6	2230.1	2236.7
72.5°	4609.1	2159.8	1310.6	1178.1	1199.3	1366.2	1557.6	1701.6	1835.8	2091.0	2087.8
75°	2740.6	1688.5	1088.1	1016.1	1030.8	1186.2	1402.2	1577.3	1778.5	2037.1	2068.1
77.5°	1662.4	1271.3	886.8	850.8	868.8	1027.5	1291.0	1477.5	1754.0	1920.9	1911.1
80°	1004.6	908.1	708.5	685.6	703.6	878.6	1194.4	1402.2	1533.1	1641.1	1641.1
82.5°	525.2	554.7	520.3	502.3	526.9	713.4	1086.4	1223.9	1354.8	1163.3	1086.4
85°	214.3	289.6	315.8	314.1	328.9	494.1	937.5	1047.2	873.7	829.5	849.2
87.5°	72.0	122.7	153.8	132.5	139.1	310.9	649.6	505.6	600.5	418.9	397.6
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)