

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: P320932

Luminaire Tested: **GAN-SA8C-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320932
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-SA8C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 52961 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

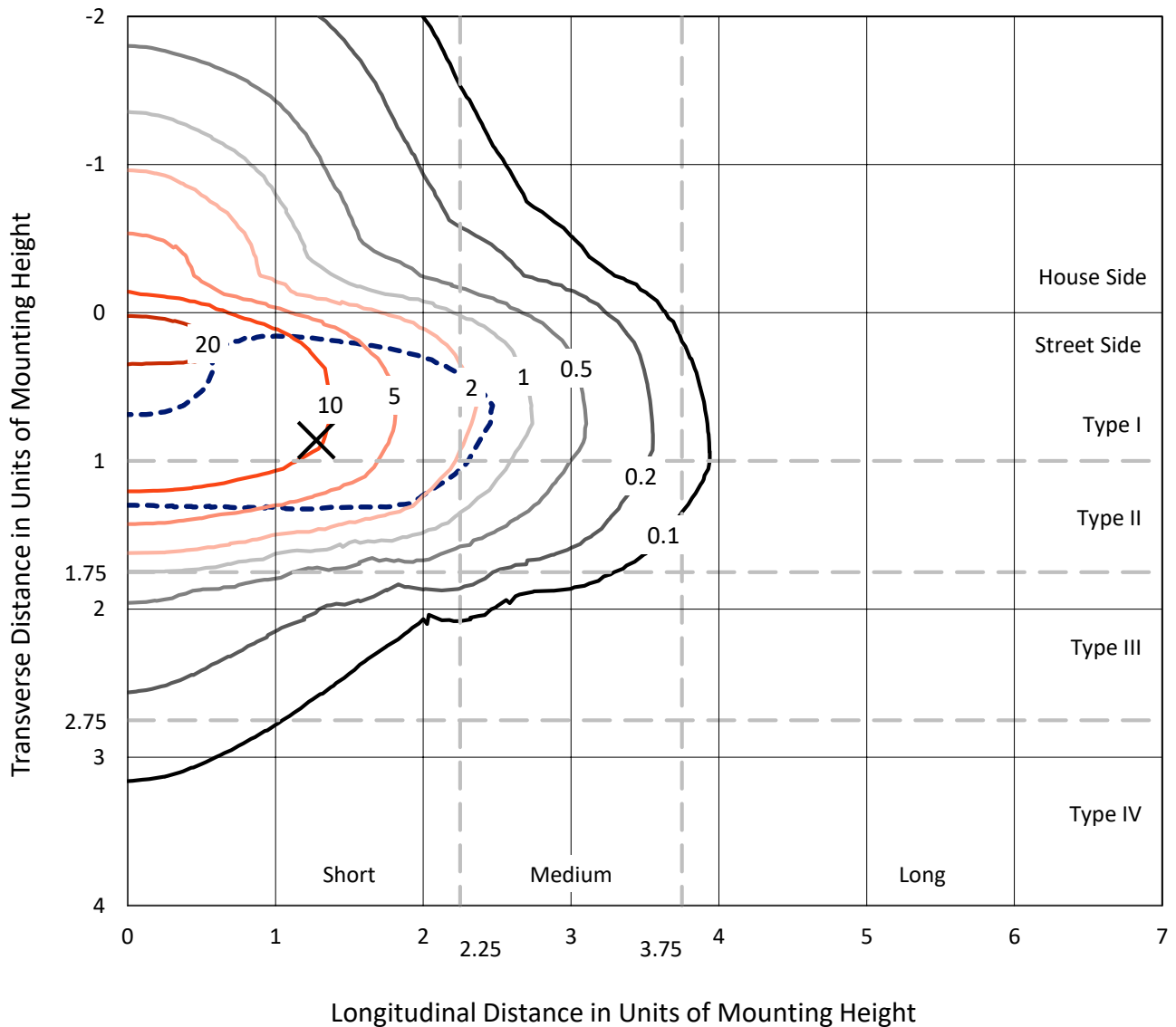
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

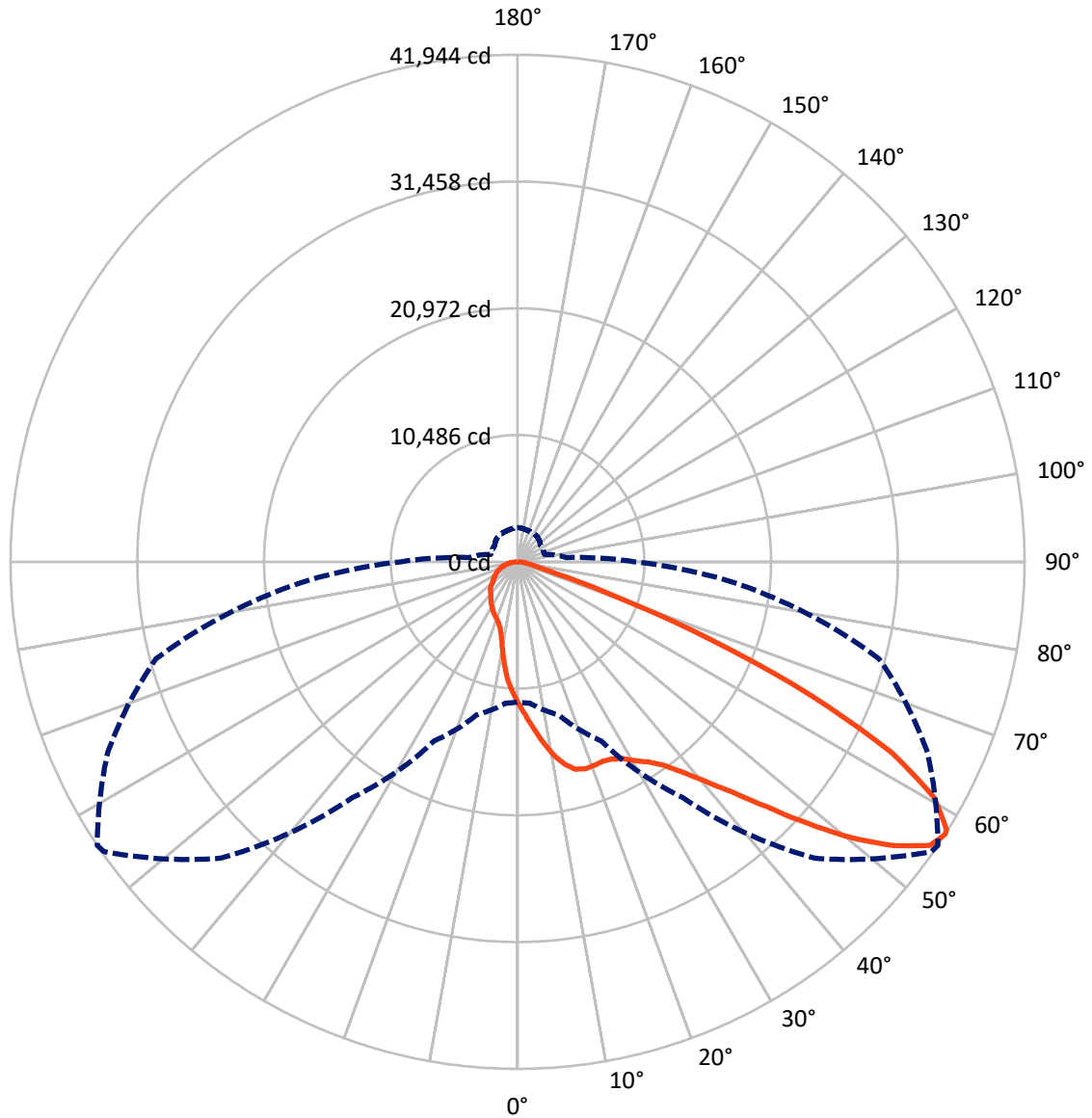
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 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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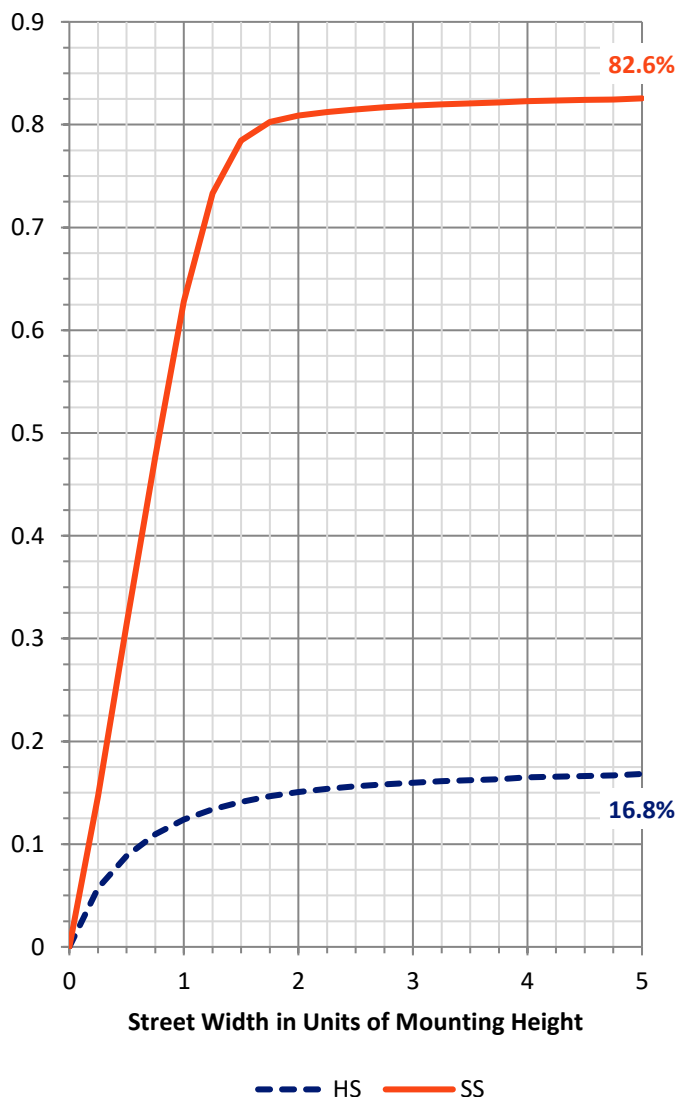
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9129.4	0.0	9129.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	43831.7	0.0	43831.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	52961.0	0.0	52961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1122.1	2.1
10°-20°	3172.5	6.0
20°-30°	5167.4	9.8
30°-40°	7724.6	14.6
40°-50°	11716.6	22.1
50°-60°	13132.2	24.8
60°-70°	7756.4	14.6
70°-80°	2541.3	4.8
80°-90°	627.9	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°	52961.0	100.0
0°-180°	52961.0	100.0

Coefficient of Utilization

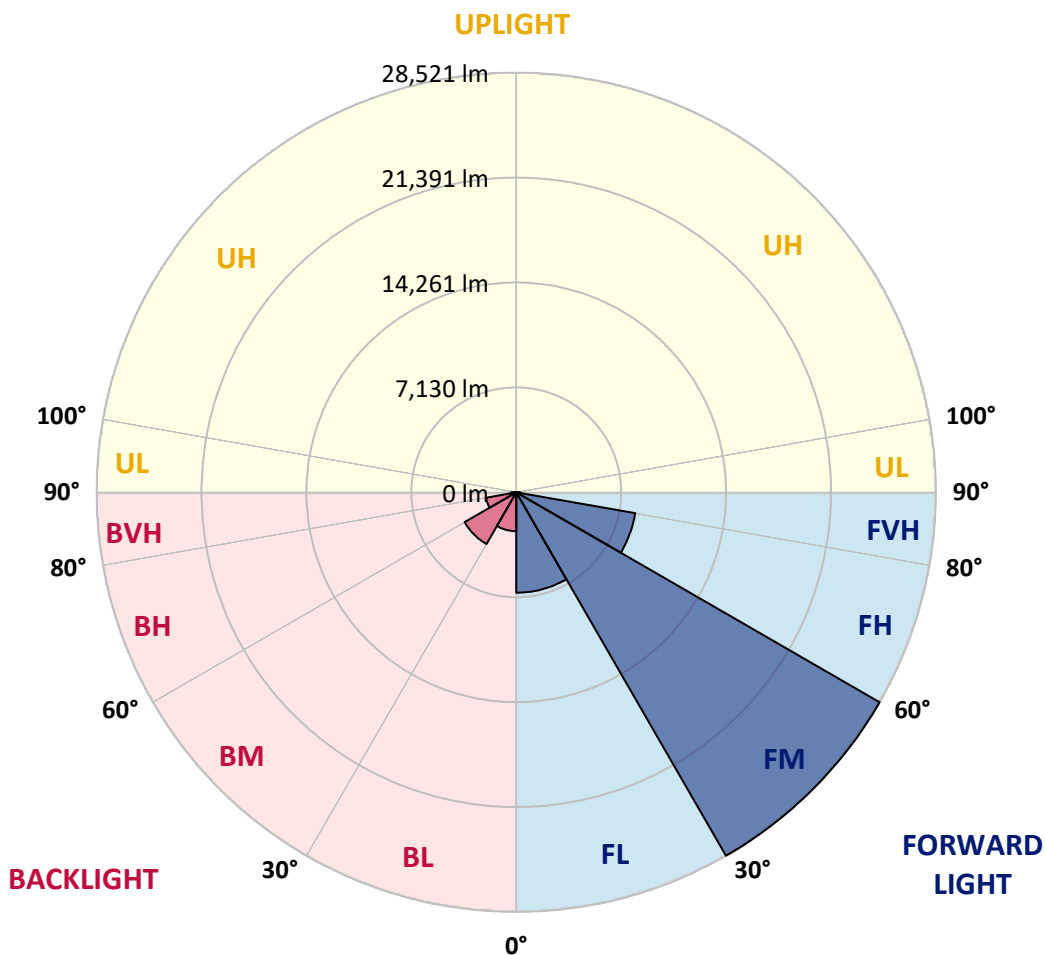


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6822.2	12.9			
FM (30°-60°)	28521.3	53.9			
FH (60°-80°)	8211.8	15.5			G4/12000
FVH (80°-90°)	276.5	0.5			G3/500
BL (0°-30°)	2639.8	5.0	B4/5000		
BM (30°-60°)	4052.2	7.7	B3/5000		
BH (60°-80°)	2086.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	351.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8
2.5°	13488.6	13612.4	13557.8	13368.5	13222.9	13017.2	12787.9	12718.7	12476.7	12205.5	11879.7
5°	15623.6	15561.7	15472.5	15177.6	14866.4	14504.2	13929.1	13838.1	13299.3	12686.0	12038.0
7.5°	16839.4	16833.9	16781.1	16608.2	16324.3	15851.1	15157.6	15050.2	14236.7	13250.2	12245.5
10°	16662.8	16650.1	16737.5	16917.6	17003.2	16904.9	16320.7	16213.3	15214.1	13874.5	12485.8
12.5°	15660.0	15667.3	15807.4	16186.0	16701.1	17319.9	17225.2	17172.5	16227.8	14580.7	12777.0
15°	14879.2	14895.5	15006.6	15336.0	15943.9	17066.9	17774.9	17793.1	17208.9	15359.7	13117.3
17.5°	14537.0	14571.6	14622.5	14853.7	15410.6	16562.7	17905.9	18004.2	18067.9	16167.8	13444.9
20°	14646.2	14678.9	14693.5	14840.9	15297.8	16257.0	17814.9	17991.5	18726.8	16928.6	13772.5
22.5°	15135.8	15155.8	15164.9	15203.1	15558.0	16344.3	17754.9	17940.5	19203.7	17611.1	14020.1
25°	15947.5	15933.0	15874.7	15825.6	16064.0	16690.1	17893.2	18069.8	19591.3	18229.9	14182.1
27.5°	16919.5	16901.3	16788.4	16653.7	16790.2	17228.9	18291.8	18432.0	19939.0	18808.7	14264.0
30°	18086.1	18038.8	17825.9	17665.7	17718.5	18037.0	18948.9	19076.3	20475.9	19465.8	14344.1
32.5°	19434.8	19383.9	19076.3	18810.5	18810.5	19076.3	19625.9	19731.5	20930.9	20208.4	14473.3
35°	21123.9	21060.1	20659.7	20213.8	20088.2	20222.9	20548.7	20623.3	21750.0	21143.9	14708.1
37.5°	23115.0	23029.5	22510.8	21913.8	21638.9	21631.7	21866.4	22019.3	23058.6	22372.4	15106.7
40°	25111.6	25051.6	24598.4	24128.8	23590.1	23417.2	23779.3	23826.7	24769.5	23897.7	15616.3
42.5°	26655.1	26644.2	26560.4	26622.3	26070.8	25721.4	26005.3	26043.5	26858.9	25548.5	16158.7
45°	27470.5	27488.7	27894.6	28793.7	28997.5	28742.7	28882.9	28893.8	29246.9	27213.8	16655.6
47.5°	26817.1	26911.7	27938.2	29949.4	31618.4	32464.8	32231.8	32366.5	31562.0	28644.4	17045.1
50°	24270.8	24387.3	26134.5	29434.3	32841.5	36066.7	35944.8	35913.8	33429.4	29692.8	17256.2
52.5°	21116.6	21207.6	22649.1	26757.0	31944.2	38057.9	39177.2	39017.1	35089.3	30477.2	17296.2
55°	16313.4	16455.3	17836.8	21413.2	28315.0	37297.1	41554.3	41410.5	36601.8	30888.6	17248.9
57°	11597.6	11746.8	13119.1	16342.5	23819.4	34663.4	41790.9	41943.7	37419.0	30957.7	17301.7
57.5°	10349.0	10501.9	11861.5	14992.0	22417.9	33711.5	41587.0	41841.8	37566.5	30946.8	17330.8
60°	5210.9	5269.1	6135.5	8368.7	14171.1	27253.9	38927.9	39584.9	37699.3	30411.7	17456.4
62.5°	3239.7	3197.9	3170.6	3854.9	6894.5	18073.4	33440.3	34705.3	35156.7	29115.8	17152.4
65°	2848.4	2770.2	2469.8	2415.2	3045.0	8778.2	25182.6	26757.0	29723.7	27073.7	16428.0
67.5°	2675.5	2599.1	2260.5	2056.7	2058.5	3480.0	15634.5	17407.2	23155.1	23621.0	14719.0
70°	2497.2	2428.0	2111.3	1871.0	1752.7	1927.5	7193.0	8538.0	15093.9	18566.6	12301.9
72.5°	2267.8	2220.5	1920.2	1672.7	1547.1	1443.3	2753.8	3252.5	8738.2	12469.4	8543.5
75°	2027.6	1983.9	1727.3	1490.6	1337.8	1135.7	1550.7	1670.8	4439.2	6379.4	4206.2
77.5°	1763.7	1738.2	1536.1	1317.7	1195.8	941.0	1097.5	1155.8	1903.8	2735.6	2109.5
80°	1403.3	1452.4	1343.2	1174.0	1061.1	753.5	777.2	815.4	1108.4	1335.9	1197.6
82.5°	913.7	999.2	1052.0	953.7	873.6	593.3	558.8	575.1	722.6	815.4	520.5
85°	380.4	427.7	691.6	624.3	580.6	433.2	374.9	382.2	447.7	464.1	212.9
87.5°	169.3	180.2	304.0	285.8	245.7	149.2	160.2	174.7	238.4	225.7	81.9
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°	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8	11746.8
2.5°	11757.7	11604.8	11342.7	11053.3	10816.7	10627.4	10436.3	10305.3	10152.4	10070.5	10028.6
5°	11766.8	11466.5	10915.0	10349.0	9843.0	9380.7	8940.2	8601.7	8285.0	8113.9	8066.6
7.5°	11805.0	11353.7	10461.8	9529.9	8630.8	7810.0	7176.6	6779.8	6494.0	6366.6	6330.2
10°	11836.0	11220.8	9901.2	8521.6	7298.5	6466.7	5975.3	5753.3	5655.0	5638.6	5622.2
12.5°	11908.8	11084.3	9311.5	7469.6	6262.9	5687.8	5516.7	5502.1	5529.4	5569.4	5569.4
15°	12023.5	10949.6	8638.1	6566.8	5604.0	5402.0	5436.6	5516.7	5591.3	5653.2	5662.3
17.5°	12107.2	10784.0	7913.7	5844.3	5252.8	5307.4	5431.1	5544.0	5620.4	5680.5	5685.9
20°	12167.2	10527.3	7140.2	5292.8	5050.7	5220.0	5374.7	5474.8	5527.6	5587.6	5596.7
22.5°	12136.3	10183.3	6454.0	4897.8	4886.9	5092.6	5240.0	5360.1	5320.1	5261.9	5300.1
25°	11987.0	9710.1	5747.8	4603.0	4714.0	4921.5	5103.5	5023.4	4888.7	4863.3	4877.8
27.5°	11721.3	9105.9	5094.4	4330.0	4513.8	4763.2	4752.2	4672.1	4624.8	4592.1	4612.1
30°	11435.6	8450.6	4522.9	4091.5	4291.7	4497.4	4455.6	4453.7	4406.4	4353.6	4379.1
32.5°	11153.5	7791.8	4069.7	3895.0	4124.3	4151.6	4242.6	4269.9	4177.1	4066.1	4058.8
35°	10907.7	7169.3	3725.7	3716.6	3922.3	3925.9	4058.8	4020.6	3789.4	3674.7	3674.7
37.5°	10723.9	6548.6	3463.6	3556.4	3656.5	3751.2	3818.5	3660.2	3622.0	3558.3	3556.4
40°	10643.8	6002.6	3299.8	3434.5	3469.1	3589.2	3416.3	3478.2	3496.4	3463.6	3463.6
42.5°	10560.1	5527.6	3157.8	3341.7	3336.2	3319.8	3232.5	3312.5	3385.3	3387.2	3381.7
45°	10476.4	5118.1	3032.3	3143.3	3219.7	3043.2	3059.6	3145.1	3247.0	3283.4	3283.4
47.5°	10383.6	4794.1	2917.6	2934.0	3052.3	2934.0	2921.2	2986.8	3106.9	3165.1	3177.9
50°	10179.7	4502.9	2786.5	2750.1	2782.9	2822.9	2833.9	2864.8	2997.7	3090.5	3112.3
52.5°	9897.6	4242.6	2619.1	2580.9	2580.9	2731.9	2782.9	2792.0	2904.8	3015.9	3037.7
55°	9662.8	4077.0	2446.2	2438.9	2431.6	2635.5	2722.8	2737.4	2815.7	2903.0	2913.9
57°	9679.2	4064.2	2313.3	2320.6	2318.8	2537.2	2666.4	2697.4	2737.4	2812.0	2824.8
57.5°	9688.3	4073.3	2284.2	2287.8	2286.0	2509.9	2650.0	2684.6	2715.6	2793.8	2806.6
60°	9824.8	4097.0	2165.9	2125.9	2135.0	2364.3	2557.2	2600.9	2620.9	2724.7	2741.0
62.5°	9622.8	3991.4	2071.3	1974.8	1974.8	2211.4	2428.0	2497.2	2528.1	2668.2	2695.5
65°	9036.7	3694.8	1960.2	1803.7	1821.9	2058.5	2273.3	2386.1	2433.4	2608.2	2637.3
67.5°	8132.1	3350.8	1841.9	1650.8	1669.0	1898.3	2113.1	2235.1	2309.7	2542.7	2566.3
70°	6954.5	2930.3	1681.8	1488.8	1510.7	1723.6	1923.8	2062.2	2173.2	2480.8	2488.0
72.5°	5127.2	2402.5	1457.9	1310.5	1334.1	1519.8	1732.7	1892.9	2042.1	2326.1	2322.4
75°	3048.6	1878.3	1210.4	1130.3	1146.7	1319.6	1559.8	1754.6	1978.4	2266.0	2300.6
77.5°	1849.2	1414.2	986.5	946.4	966.5	1143.0	1436.0	1643.5	1951.1	2136.8	2125.9
80°	1117.5	1010.1	788.1	762.6	782.6	977.4	1328.7	1559.8	1705.4	1825.5	1825.5
82.5°	584.2	617.0	578.8	558.8	586.1	793.6	1208.5	1361.4	1507.0	1294.1	1208.5
85°	238.4	322.2	351.3	349.5	365.8	549.7	1042.9	1164.9	971.9	922.8	944.6
87.5°	80.1	136.5	171.1	147.4	154.7	345.8	722.6	562.4	668.0	465.9	442.3
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)