

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: P320942

Luminaire Tested: **GAN-SA8D-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320942
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-SA8D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58098 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

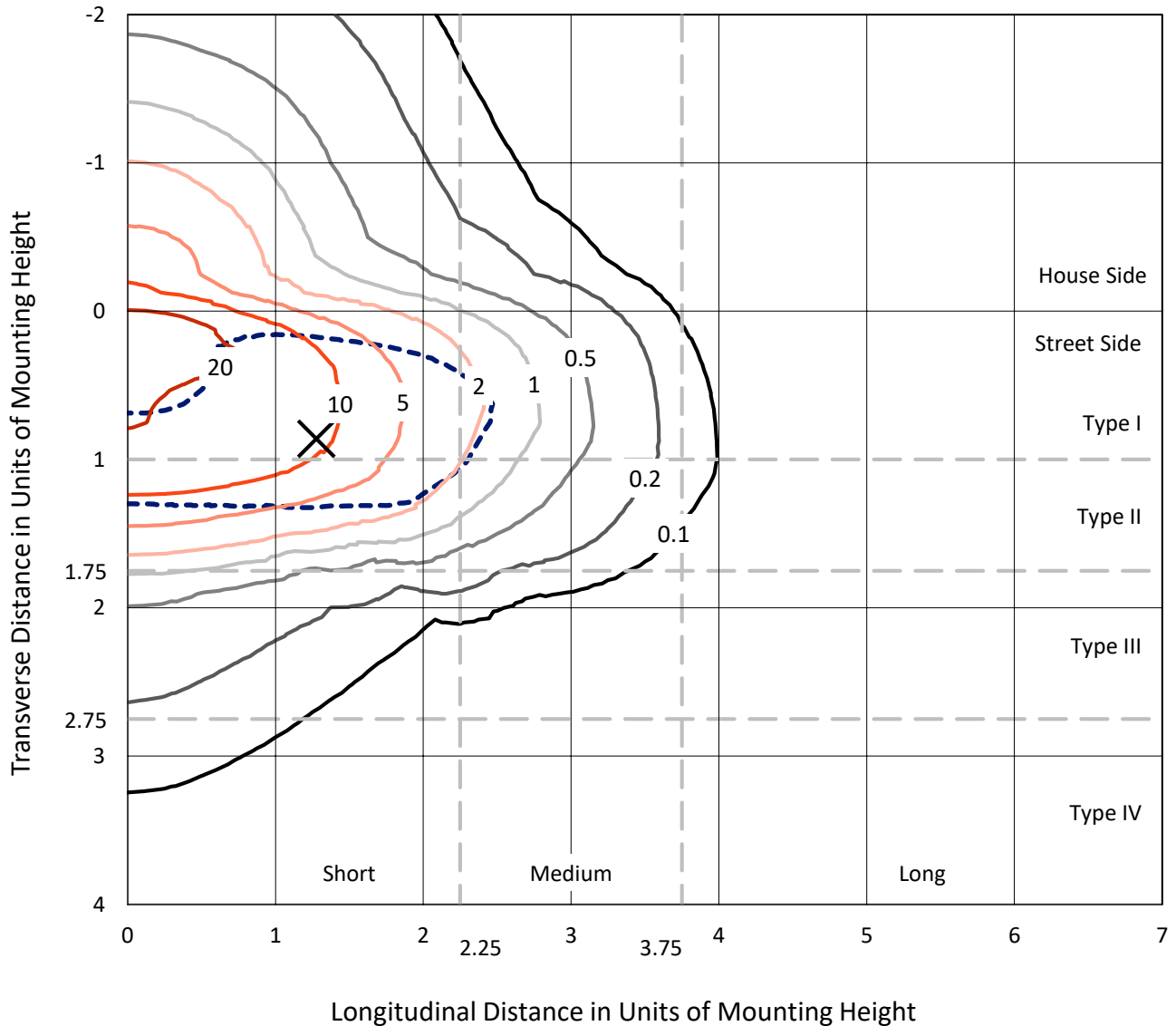
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320942
 CATALOG NUMBER: GAN-SA8D-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

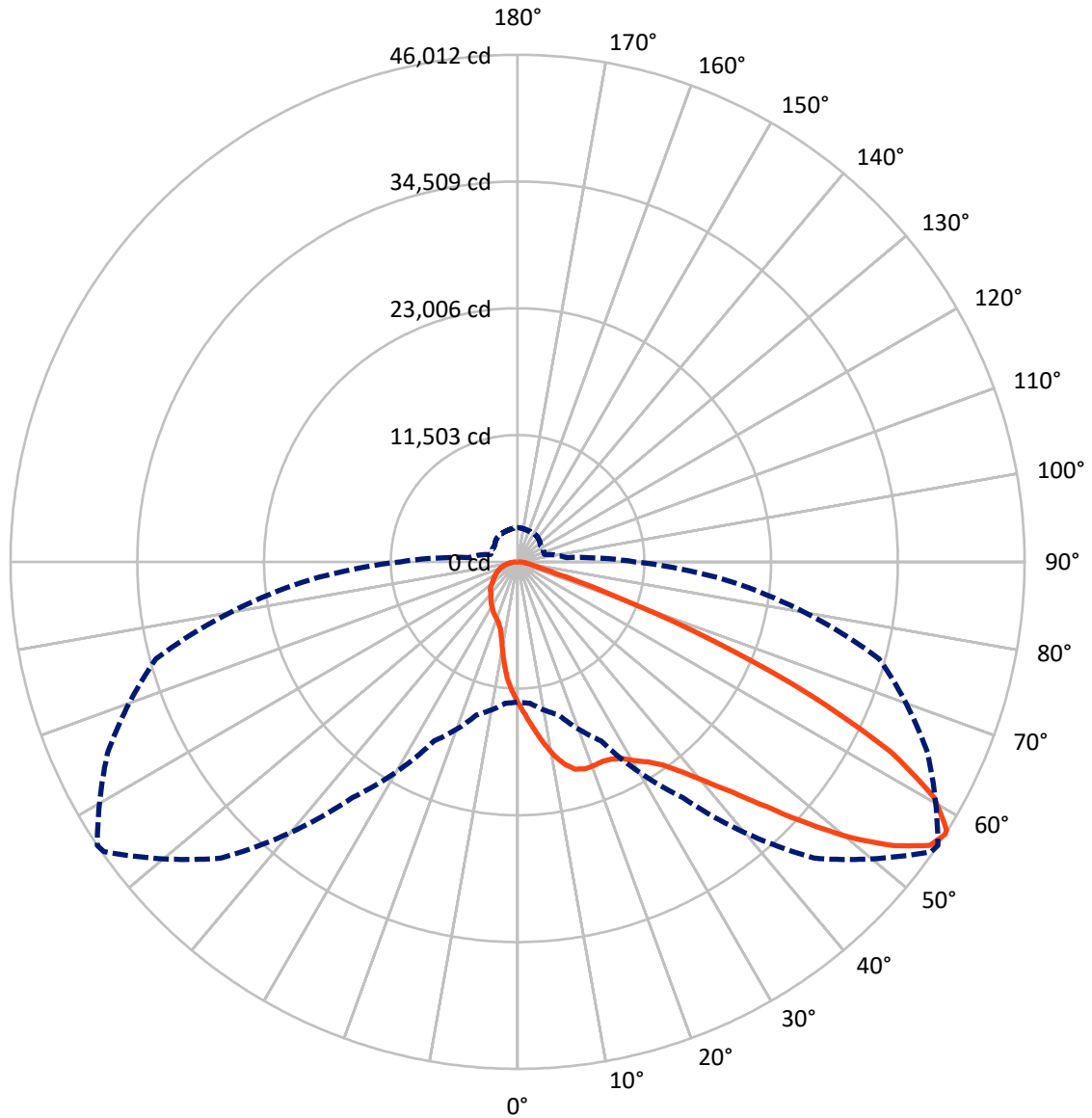
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc
 Type II - Short - N/A

REPORT NUMBER: P320942
CATALOG NUMBER: GAN-SA8D-730-U-AFL

Luminous Intensity Polar Plot



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

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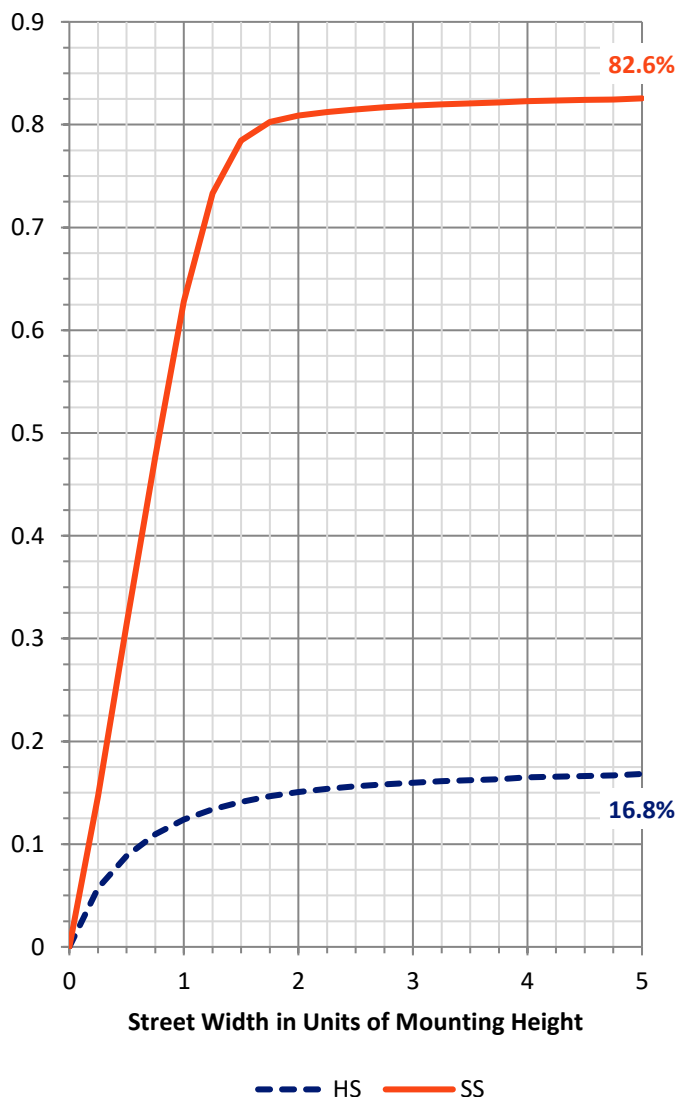
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10014.9	0.0	10014.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	48083.1	0.0	48083.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	58098.0	0.0	58098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.0	2.1
10°-20°	3480.2	6.0
20°-30°	5668.6	9.8
30°-40°	8473.9	14.6
40°-50°	12853.1	22.1
50°-60°	14406.0	24.8
60°-70°	8508.8	14.6
70°-80°	2787.8	4.8
80°-90°	688.8	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°	58098.0	100.0
0°-180°	58098.0	100.0

Coefficient of Utilization

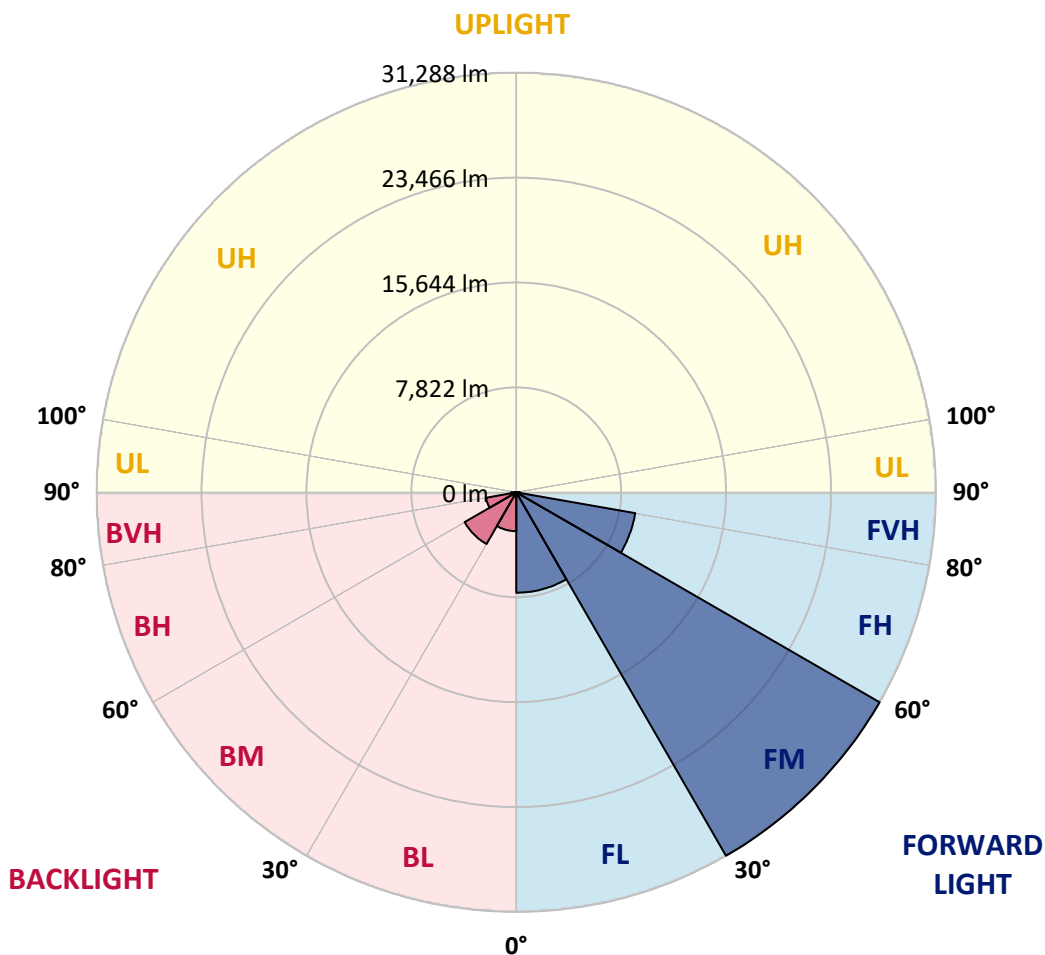


REPORT NUMBER: P320942
 CATALOG NUMBER: GAN-SA8D-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7483.9	12.9			
FM (30°-60°)	31287.7	53.9			
FH (60°-80°)	9008.3	15.5			G4/12000
FVH (80°-90°)	303.3	0.5			G3/500
BL (0°-30°)	2895.8	5.0	B4/5000		
BM (30°-60°)	4445.3	7.7	B3/5000		
BH (60°-80°)	2288.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	385.5	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°	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2
2.5°	14797.0	14932.7	14872.8	14665.2	14505.4	14279.8	14028.3	13952.4	13686.8	13389.3	13031.9
5°	17139.0	17071.1	16973.3	16649.8	16308.4	15911.1	15280.1	15180.3	14589.3	13916.4	13205.6
7.5°	18472.7	18466.7	18408.8	18219.2	17907.7	17388.6	16627.9	16510.1	15617.6	14535.4	13433.3
10°	18279.1	18265.1	18360.9	18558.6	18652.4	18544.6	17903.7	17785.9	16689.8	15220.2	13696.8
12.5°	17178.9	17186.9	17340.6	17755.9	18321.0	18999.8	18896.0	18838.1	17801.9	15994.9	14016.3
15°	16322.4	16340.3	16462.1	16823.5	17490.4	18722.3	19499.0	19519.0	18878.0	16849.5	14389.6
17.5°	15947.0	15984.9	16040.8	16294.4	16905.4	18169.2	19642.8	19750.6	19820.5	17736.0	14749.0
20°	16066.8	16102.7	16118.7	16280.4	16781.6	17833.8	19542.9	19736.6	20543.2	18570.6	15108.4
22.5°	16603.9	16625.9	16635.8	16677.8	17067.1	17929.7	19477.0	19680.7	21066.3	19319.3	15380.0
25°	17494.4	17478.4	17414.5	17360.6	17622.2	18309.0	19628.8	19822.4	21491.6	19998.2	15557.7
27.5°	18560.6	18540.6	18416.8	18269.1	18418.8	18900.0	20066.0	20219.8	21873.0	20633.1	15647.5
30°	19840.4	19788.5	19554.9	19379.2	19437.1	19786.5	20786.8	20926.6	22462.0	21353.9	15735.4
32.5°	21319.9	21264.0	20926.6	20635.1	20635.1	20926.6	21529.6	21645.4	22961.1	22168.5	15877.1
35°	23172.8	23102.9	22663.6	22174.5	22036.7	22184.5	22541.8	22623.7	23859.6	23194.7	16134.7
37.5°	25357.1	25263.2	24694.2	24039.3	23737.8	23729.8	23987.4	24155.1	25295.2	24542.5	16572.0
40°	27547.4	27481.5	26984.3	26469.2	25878.2	25688.5	26085.8	26137.8	27172.0	26215.6	17131.0
42.5°	29240.5	29228.5	29136.7	29204.6	28599.6	28216.2	28527.7	28569.6	29464.1	28026.6	17726.0
45°	30135.0	30155.0	30600.2	31586.5	31810.2	31530.6	31684.4	31696.4	32083.7	29853.5	18271.1
47.5°	29418.2	29522.0	30648.1	32854.4	34685.3	35613.7	35358.2	35505.9	34623.4	31422.8	18698.4
50°	26624.9	26752.7	28669.5	32289.3	36027.0	39565.0	39431.3	39397.3	36671.9	32572.9	18930.0
52.5°	23164.8	23264.6	24845.9	29352.3	35042.7	41749.3	42977.3	42801.6	38492.8	33433.4	18973.9
55°	17895.7	18051.4	19566.9	23490.2	31061.4	40914.7	45584.8	45427.1	40152.0	33884.6	18922.0
57°	12722.5	12886.2	14391.6	17927.7	26129.8	38025.6	45844.4	46012.1	41048.5	33960.5	18979.9
57.5°	11352.8	11520.5	13012.0	16446.2	24592.4	36981.4	45620.8	45900.3	41210.2	33948.5	19011.8
60°	5716.3	5780.2	6730.6	9180.5	15545.7	29897.4	42703.7	43424.5	41356.0	33361.5	19149.6
62.5°	3554.0	3508.1	3478.1	4228.8	7563.2	19826.4	36683.9	38071.6	38566.7	31939.9	18816.2
65°	3124.7	3038.9	2709.4	2649.5	3340.3	9629.7	27625.2	29352.3	32606.8	29699.7	18021.5
67.5°	2935.0	2851.2	2479.8	2256.2	2258.2	3817.5	17151.0	19095.7	25401.0	25912.1	16146.7
70°	2739.4	2663.5	2316.1	2052.5	1922.7	2114.4	7890.6	9366.1	16558.0	20367.5	13495.2
72.5°	2487.8	2435.9	2106.4	1834.9	1697.1	1583.3	3020.9	3568.0	9585.8	13678.8	9372.1
75°	2224.2	2176.3	1894.8	1635.2	1467.5	1245.9	1701.1	1832.9	4869.8	6998.2	4614.2
77.5°	1934.7	1906.8	1685.1	1445.6	1311.8	1032.3	1204.0	1267.9	2088.5	3000.9	2314.1
80°	1539.4	1593.3	1473.5	1287.8	1164.0	826.6	852.6	894.5	1215.9	1465.5	1313.8
82.5°	1002.3	1096.1	1154.0	1046.2	958.4	650.9	613.0	630.9	792.7	894.5	571.0
85°	417.3	469.2	758.7	684.8	636.9	475.2	411.3	419.3	491.2	509.1	233.6
87.5°	185.7	197.7	333.4	313.5	269.5	163.7	175.7	191.7	261.6	247.6	89.8
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°	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2	12886.2
2.5°	12898.2	12730.5	12442.9	12125.5	11865.9	11658.3	11448.6	11304.9	11137.1	11047.3	11001.4
5°	12908.2	12578.7	11973.7	11352.8	10797.7	10290.6	9807.4	9436.0	9088.6	8900.9	8849.0
7.5°	12950.1	12454.9	11476.6	10454.3	9468.0	8567.5	7872.7	7437.4	7123.9	6984.2	6944.2
10°	12984.0	12309.2	10861.6	9348.2	8006.4	7094.0	6554.9	6311.3	6203.5	6185.5	6167.6
12.5°	13063.9	12159.4	10214.7	8194.1	6870.4	6239.4	6051.8	6035.8	6065.7	6109.7	6109.7
15°	13189.7	12011.7	9476.0	7203.8	6147.6	5926.0	5963.9	6051.8	6133.6	6201.5	6211.5
17.5°	13281.5	11830.0	8681.3	6411.1	5762.2	5822.1	5957.9	6081.7	6165.6	6231.5	6237.4
20°	13347.4	11548.5	7832.7	5806.2	5540.6	5726.3	5896.0	6005.8	6063.7	6129.6	6139.6
22.5°	13313.5	11171.1	7080.0	5372.9	5360.9	5586.5	5748.3	5880.0	5836.1	5772.2	5814.2
25°	13149.7	10652.0	6305.3	5049.5	5171.2	5398.9	5598.5	5510.7	5362.9	5335.0	5350.9
27.5°	12858.2	9989.1	5588.5	4750.0	4951.6	5225.2	5213.2	5125.3	5073.4	5037.5	5059.4
30°	12544.8	9270.3	4961.6	4488.4	4708.0	4933.6	4887.7	4885.7	4833.8	4775.9	4803.9
32.5°	12235.3	8547.5	4464.4	4272.8	4524.3	4554.3	4654.1	4684.1	4582.2	4460.5	4452.5
35°	11965.7	7864.7	4087.1	4077.1	4302.7	4306.7	4452.5	4410.5	4157.0	4031.2	4031.2
37.5°	11764.1	7183.8	3799.6	3901.4	4011.2	4115.0	4188.9	4015.2	3973.3	3903.4	3901.4
40°	11676.2	6584.9	3619.9	3767.6	3805.6	3937.3	3747.7	3815.5	3835.5	3799.6	3799.6
42.5°	11584.4	6063.7	3464.1	3665.8	3659.8	3641.8	3546.0	3633.8	3713.7	3715.7	3709.7
45°	11492.5	5614.5	3326.4	3448.2	3532.0	3338.3	3356.3	3450.2	3562.0	3601.9	3601.9
47.5°	11390.7	5259.1	3200.6	3218.6	3348.3	3218.6	3204.6	3276.5	3408.2	3472.1	3486.1
50°	11167.1	4939.6	3056.8	3016.9	3052.8	3096.8	3108.7	3142.7	3288.4	3390.3	3414.2
52.5°	10857.6	4654.1	2873.1	2831.2	2831.2	2996.9	3052.8	3062.8	3186.6	3308.4	3332.4
55°	10600.1	4472.4	2683.5	2675.5	2667.5	2891.1	2986.9	3002.9	3088.8	3184.6	3196.6
57°	10618.0	4458.5	2537.7	2545.7	2543.7	2783.3	2925.0	2959.0	3002.9	3084.8	3098.8
57.5°	10628.0	4468.4	2505.8	2509.8	2507.8	2753.3	2907.1	2945.0	2979.0	3064.8	3078.8
60°	10777.8	4494.4	2376.0	2332.1	2342.0	2593.6	2805.3	2853.2	2875.1	2988.9	3006.9
62.5°	10556.1	4378.6	2272.2	2166.3	2166.3	2425.9	2663.5	2739.4	2773.3	2927.0	2957.0
65°	9913.2	4053.1	2150.4	1978.7	1998.6	2258.2	2493.8	2617.6	2669.5	2861.2	2893.1
67.5°	8920.9	3675.8	2020.6	1810.9	1830.9	2082.5	2318.1	2451.9	2533.7	2789.3	2815.2
70°	7629.1	3214.6	1844.9	1633.2	1657.2	1890.8	2110.4	2262.2	2384.0	2721.4	2729.4
72.5°	5624.5	2635.5	1599.3	1437.6	1463.5	1667.2	1900.8	2076.5	2240.2	2551.7	2547.7
75°	3344.3	2060.5	1327.8	1239.9	1257.9	1447.5	1711.1	1924.7	2170.3	2485.8	2523.7
77.5°	2028.6	1551.4	1082.2	1038.2	1060.2	1253.9	1575.3	1802.9	2140.4	2344.0	2332.1
80°	1225.9	1108.1	864.5	836.6	858.5	1072.2	1457.5	1711.1	1870.8	2002.6	2002.6
82.5°	640.9	676.9	634.9	613.0	642.9	870.5	1325.8	1493.5	1653.2	1419.6	1325.8
85°	261.6	353.4	385.3	383.4	401.3	603.0	1144.1	1277.8	1066.2	1012.3	1036.2
87.5°	87.9	149.7	187.7	161.7	169.7	379.4	792.7	617.0	732.8	511.1	485.2
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)