

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: P321324

Luminaire Tested: **GAN-SA0B-750-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0B-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45656 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

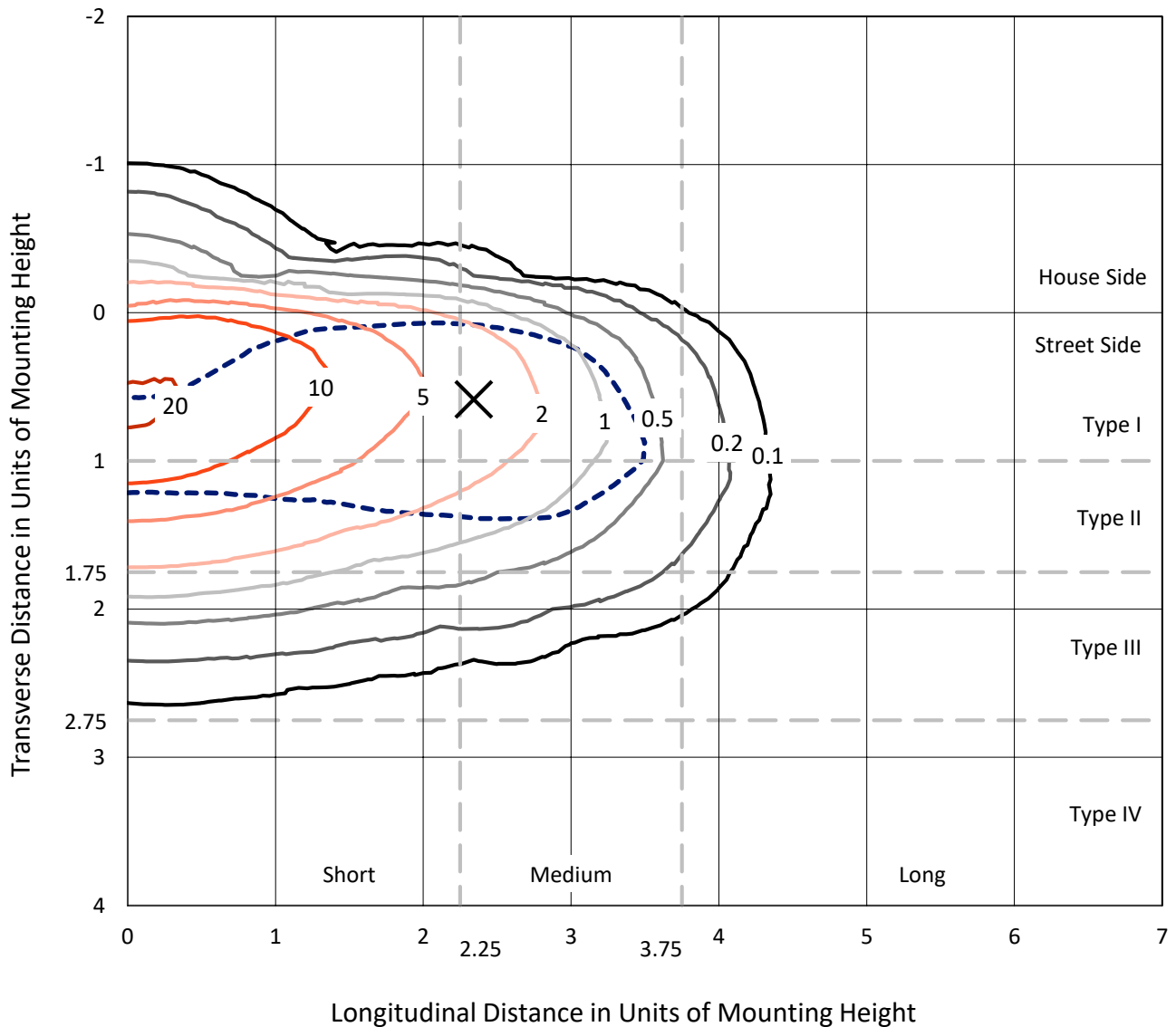
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

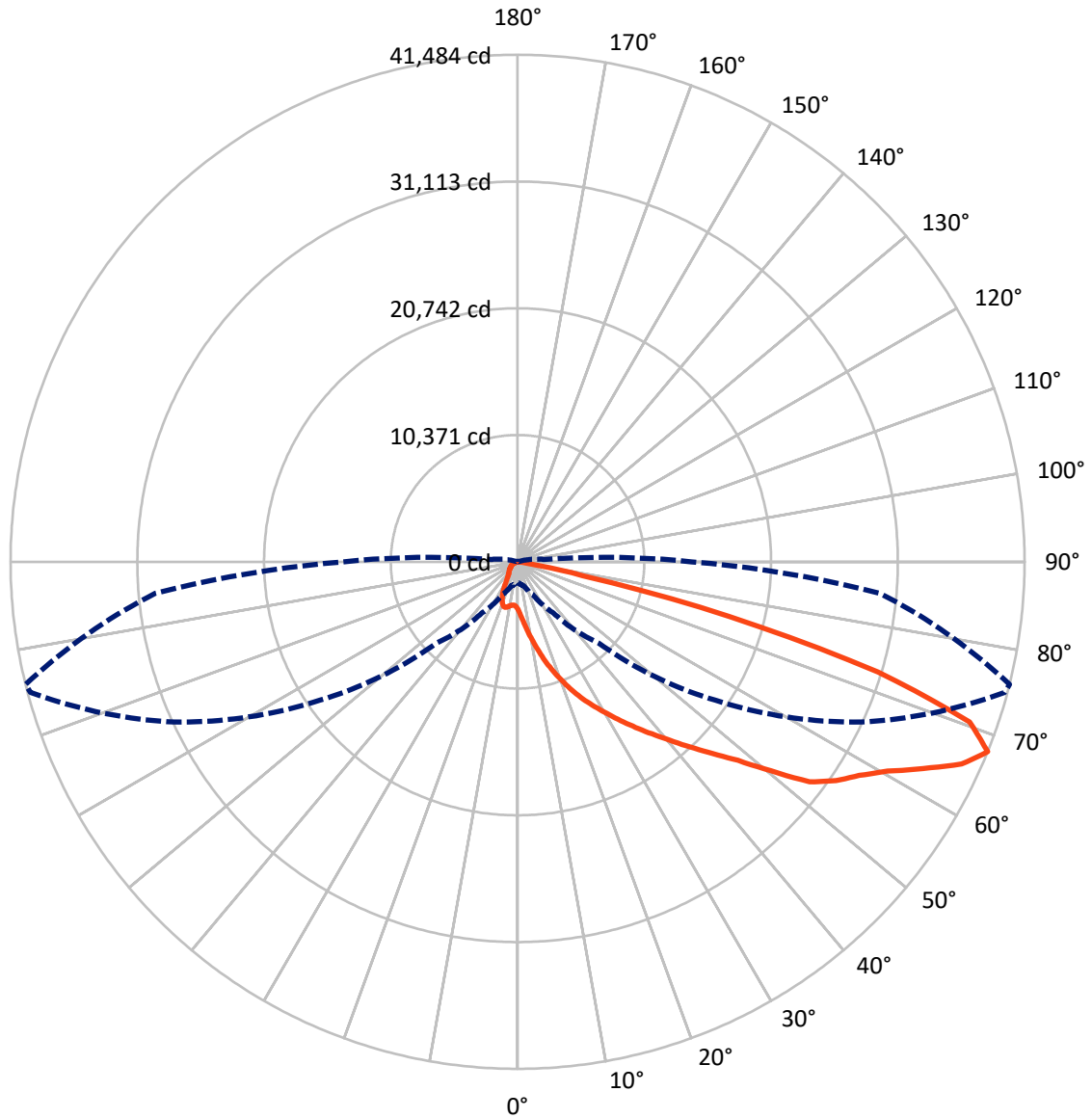
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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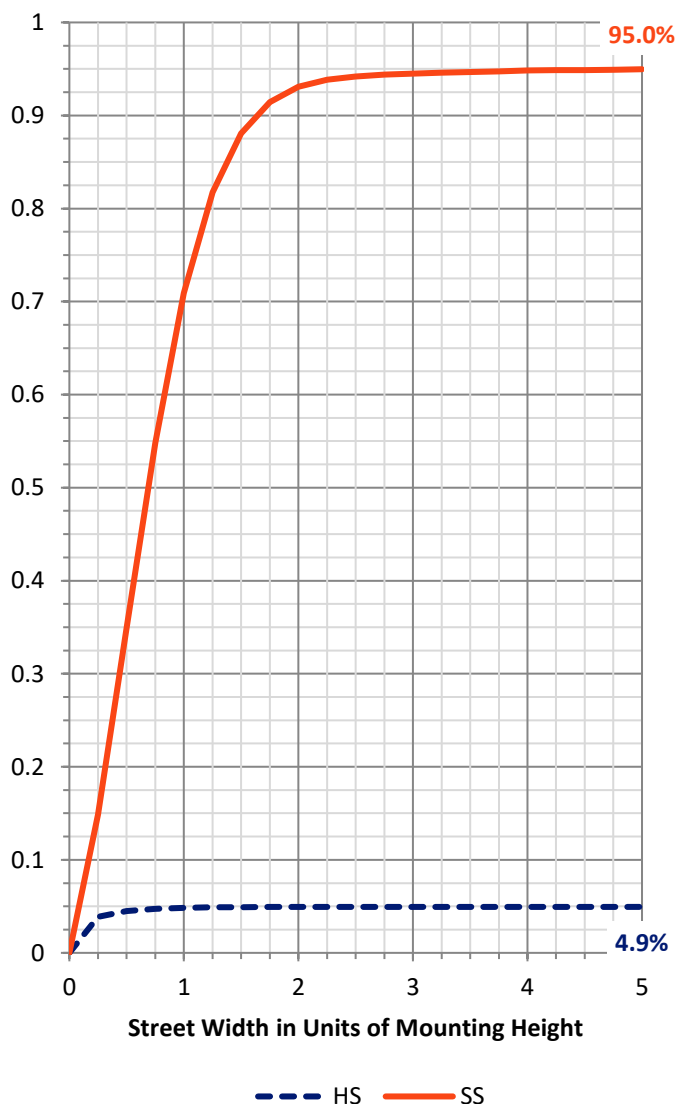
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2267.1	0.0	2267.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	43388.8	0.0	43388.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	45656.0	0.0	45656.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.6	1.1
10°-20°	1909.1	4.2
20°-30°	3884.4	8.5
30°-40°	6742.1	14.8
40°-50°	9525.7	20.9
50°-60°	10802.6	23.7
60°-70°	8959.7	19.6
70°-80°	3245.5	7.1
80°-90°	105.2	0.2
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°	45656.0	100.0
0°-180°	45656.0	100.0

**Coefficient of Utilization**

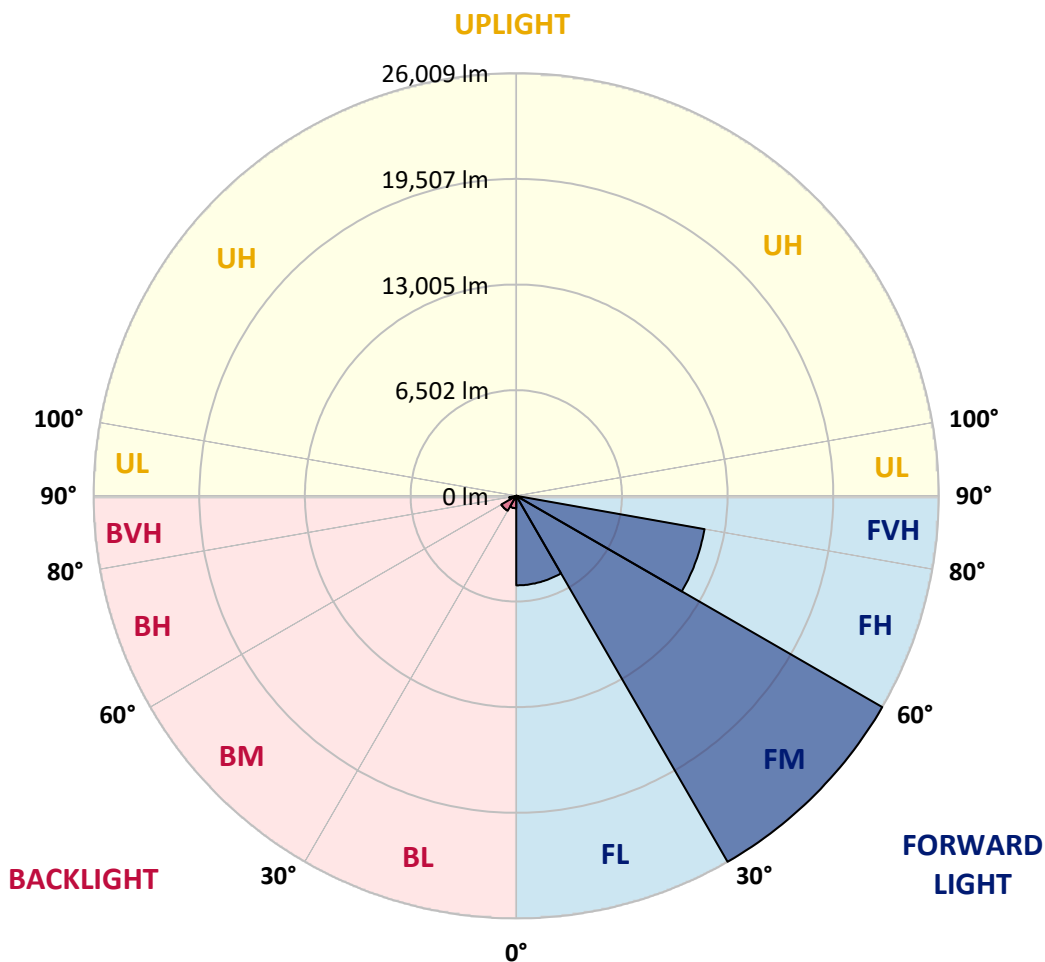


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5510.5	12.1			
FM (30°-60°)	26009.3	57.0			
FH (60°-80°)	11767.1	25.8			G4/12000
FVH (80°-90°)	101.9	0.2			G2/225
BL (0°-30°)	764.6	1.7	B2/1000		
BM (30°-60°)	1061.1	2.3	B2/2500		
BH (60°-80°)	438.1	1.0	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0
2.5°	5781.4	5651.4	5681.4	5597.4	5445.3	5133.3	4867.2	4615.1	4321.1	4311.1	4069.0
5°	7795.9	7685.9	7671.9	7501.8	7225.8	6695.6	6179.5	5591.4	4935.2	4887.2	4373.1
7.5°	9624.4	9536.3	9504.3	9302.3	8788.2	8272.0	7599.9	6735.7	5709.4	5621.4	4783.2
10°	11028.7	10986.7	10994.7	10850.7	10410.6	9930.4	9048.2	7946.0	6587.6	6451.6	5275.3
12.5°	12093.0	12103.0	12175.0	12087.0	11840.9	11484.8	10542.6	9236.3	7559.9	7373.8	5837.4
15°	12875.2	12925.2	13057.2	13167.2	13149.2	12841.2	11976.9	10546.6	8592.1	8386.1	6463.6
17.5°	13381.3	13437.3	13629.3	13873.4	14097.5	14025.4	13361.3	11810.9	9636.4	9398.3	7133.8
20°	13825.4	13891.4	14097.5	14419.5	14837.6	14927.7	14491.6	13037.2	10678.6	10388.6	7825.9
22.5°	14787.6	14785.6	14911.7	15099.7	15497.8	15729.9	15453.8	14175.5	11708.9	11406.8	8532.1
25°	16528.1	16462.0	16418.0	16270.0	16358.0	16502.1	16348.0	15239.7	12745.1	12439.1	9248.3
27.5°	18596.6	18636.6	18280.5	17882.4	17574.3	17426.3	17174.2	16226.0	13741.4	13405.3	9948.4
30°	20779.1	20791.1	20371.0	19862.9	19184.7	18622.6	18186.5	17168.2	14765.6	14399.5	10628.6
32.5°	22747.6	22669.6	22253.5	21561.3	20705.1	20072.9	19166.7	18220.5	15849.9	15495.8	11384.8
35°	24308.0	24215.9	23709.8	23079.7	22191.4	21555.3	20465.0	19270.7	16990.2	16644.1	12143.0
37.5°	25448.2	25340.2	24820.1	24171.9	23405.7	23035.7	21971.4	20413.0	18234.5	17862.4	12941.2
40°	25844.3	25750.3	25424.2	24950.1	24334.0	24250.0	23569.8	21727.3	19588.8	19192.7	13845.4
42.5°	25608.3	25516.3	25400.2	25240.2	24984.1	25064.2	25078.2	23225.7	21093.2	20703.1	14843.6
45°	24672.1	24590.0	24710.1	24944.1	25262.2	25658.3	26454.5	24836.1	22773.6	22357.5	15997.9
47.5°	23293.7	23233.7	23565.8	24149.9	25080.2	26172.4	27712.8	26528.5	24660.1	24274.0	17438.3
50°	21333.2	21323.2	21987.4	23053.7	24484.0	26420.5	29013.1	28453.0	27280.7	26874.6	19440.8
52.5°	18280.5	18300.5	19606.8	21313.2	23437.8	26252.4	29849.3	30925.6	30329.4	29907.3	21175.2
55°	15373.8	15493.8	16420.0	18880.6	21833.4	25628.3	30137.4	32079.9	32011.9	31611.8	22139.4
57.5°	12527.1	12745.1	13637.3	15935.9	19490.8	24189.9	29979.4	32580.0	33264.2	32958.1	23411.7
60°	9442.3	9542.3	10570.6	12719.1	16484.0	21565.3	28833.1	32852.1	34976.6	34764.5	25258.2
62.5°	6007.5	6257.5	7169.8	9242.3	12835.2	17920.4	26900.6	32848.1	37119.1	37235.1	27640.8
65°	3164.8	3456.8	3941.0	5727.4	8820.2	13849.4	23993.9	32540.0	39747.8	39909.8	29503.2
67.5°	1706.4	1790.4	2046.5	2972.7	5115.3	9382.3	19722.8	31019.6	41270.1	41484.2	29763.3
70°	1248.3	1294.3	1390.3	1644.4	2574.6	5449.3	14391.5	27572.8	39307.7	39227.6	26444.5
72.5°	958.2	1030.3	1102.3	1204.3	1480.4	2908.7	8960.2	21591.3	31363.7	30835.6	19766.9
75°	756.2	768.2	870.2	962.2	1110.3	1656.4	3979.0	12575.1	19142.7	17892.4	10250.5
77.5°	604.1	612.2	672.2	752.2	892.2	1088.3	1232.3	4947.2	6111.5	5453.3	2224.5
80°	358.1	378.1	500.1	580.1	740.2	686.2	450.1	1074.3	954.2	864.2	374.1
82.5°	200.0	216.1	282.1	458.1	516.1	328.1	224.1	290.1	224.1	218.1	106.0
85°	0.0	10.0	182.0	284.1	210.1	72.0	94.0	96.0	66.0	62.0	42.0
87.5°	0.0	0.0	56.0	54.0	8.0	12.0	22.0	32.0	26.0	26.0	22.0
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°	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0	3873.0
2.5°	3949.0	3840.9	3636.9	3436.8	3268.8	3130.8	3006.7	2956.7	2916.7	2910.7	2878.7
5°	4125.0	3907.0	3516.9	3196.8	2982.7	2830.7	2700.7	2620.6	2558.6	2534.6	2512.6
7.5°	4391.1	4061.0	3500.9	3132.8	2876.7	2620.6	2380.6	2120.5	1958.5	1896.5	1860.5
10°	4715.2	4265.0	3560.9	3114.8	2666.7	2126.5	1728.4	1398.3	1264.3	1220.3	1208.3
12.5°	5093.3	4519.1	3664.9	3002.7	2218.5	1510.4	1192.3	1080.3	1050.3	1036.3	1036.3
15°	5527.4	4797.2	3738.9	2678.7	1640.4	1142.3	1032.3	980.2	948.2	930.2	932.2
17.5°	5971.5	5069.2	3702.9	2208.5	1210.3	1016.2	934.2	878.2	834.2	816.2	812.2
20°	6419.6	5321.3	3502.9	1644.4	1024.3	922.2	830.2	768.2	724.2	706.2	702.2
22.5°	6883.7	5535.4	3150.8	1206.3	920.2	818.2	728.2	666.2	624.2	608.1	600.1
25°	7335.8	5709.4	2658.7	976.2	822.2	720.2	634.2	576.1	538.1	522.1	520.1
27.5°	7757.9	5819.4	2088.5	862.2	736.2	632.2	554.1	502.1	470.1	458.1	456.1
30°	8138.0	5829.4	1544.4	778.2	660.2	556.1	484.1	438.1	410.1	398.1	394.1
32.5°	8522.1	5745.4	1124.3	702.2	590.1	490.1	420.1	384.1	364.1	354.1	354.1
35°	8884.2	5551.4	876.2	636.2	522.1	426.1	370.1	344.1	332.1	322.1	322.1
37.5°	9238.3	5273.3	744.2	578.1	458.1	372.1	326.1	310.1	300.1	290.1	290.1
40°	9598.4	4923.2	676.2	524.1	406.1	330.1	290.1	276.1	266.1	258.1	256.1
42.5°	10040.5	4519.1	632.2	474.1	360.1	292.1	256.1	240.1	232.1	224.1	220.1
45°	10552.6	4171.0	596.1	424.1	322.1	260.1	222.1	206.1	194.0	184.0	182.0
47.5°	11290.8	3919.0	548.1	370.1	286.1	226.1	192.0	174.0	156.0	146.0	144.0
50°	12233.0	3710.9	486.1	322.1	250.1	192.0	160.0	138.0	122.0	112.0	112.0
52.5°	12701.1	3438.8	430.1	280.1	210.1	162.0	130.0	104.0	96.0	86.0	86.0
55°	12889.2	3230.8	374.1	238.1	174.0	134.0	102.0	80.0	74.0	68.0	66.0
57.5°	13417.3	3170.8	326.1	202.0	144.0	106.0	78.0	60.0	56.0	48.0	48.0
60°	14267.5	3200.8	282.1	172.0	116.0	82.0	58.0	46.0	42.0	34.0	34.0
62.5°	15185.7	3162.8	238.1	148.0	90.0	60.0	40.0	34.0	34.0	20.0	18.0
65°	15361.8	2816.7	204.1	122.0	70.0	44.0	26.0	22.0	30.0	4.0	0.0
67.5°	14257.5	2184.5	176.0	94.0	52.0	34.0	20.0	10.0	26.0	0.0	0.0
70°	11400.8	1388.3	142.0	68.0	40.0	28.0	16.0	4.0	20.0	0.0	0.0
72.5°	8062.0	806.2	112.0	48.0	34.0	22.0	12.0	0.0	12.0	0.0	0.0
75°	4077.0	430.1	70.0	36.0	26.0	16.0	8.0	0.0	2.0	0.0	0.0
77.5°	882.2	200.0	44.0	26.0	18.0	10.0	4.0	0.0	0.0	0.0	0.0
80°	192.0	88.0	28.0	16.0	10.0	6.0	0.0	0.0	0.0	0.0	0.0
82.5°	70.0	46.0	14.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.0	24.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	8.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)