

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: P321284

Luminaire Tested: **GAN-SA0B-740-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321284  
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-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 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: 45657 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 (A<sub>in</sub>): 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

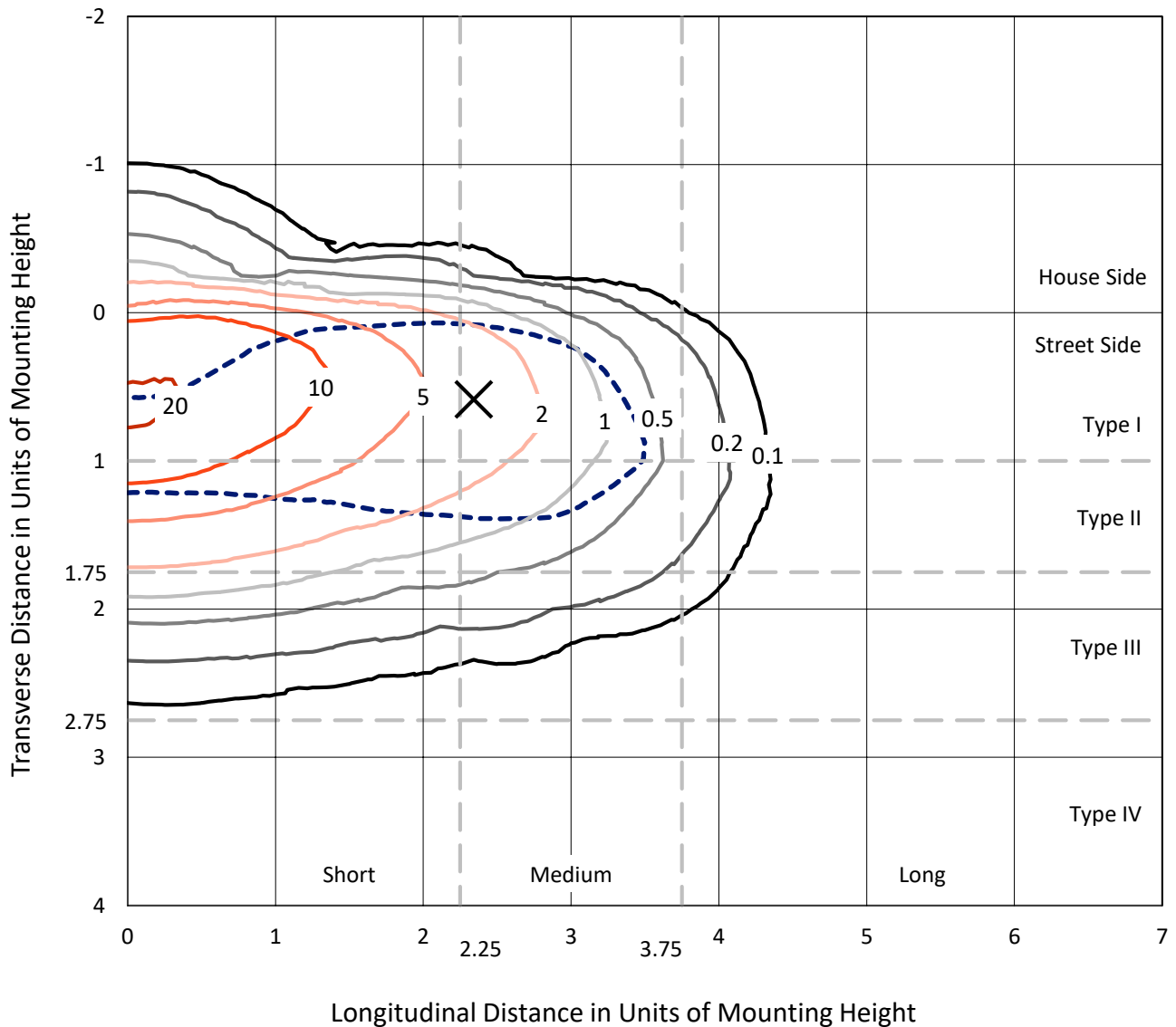




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### Iso-Footcandle Lines of Horizontal Illumination

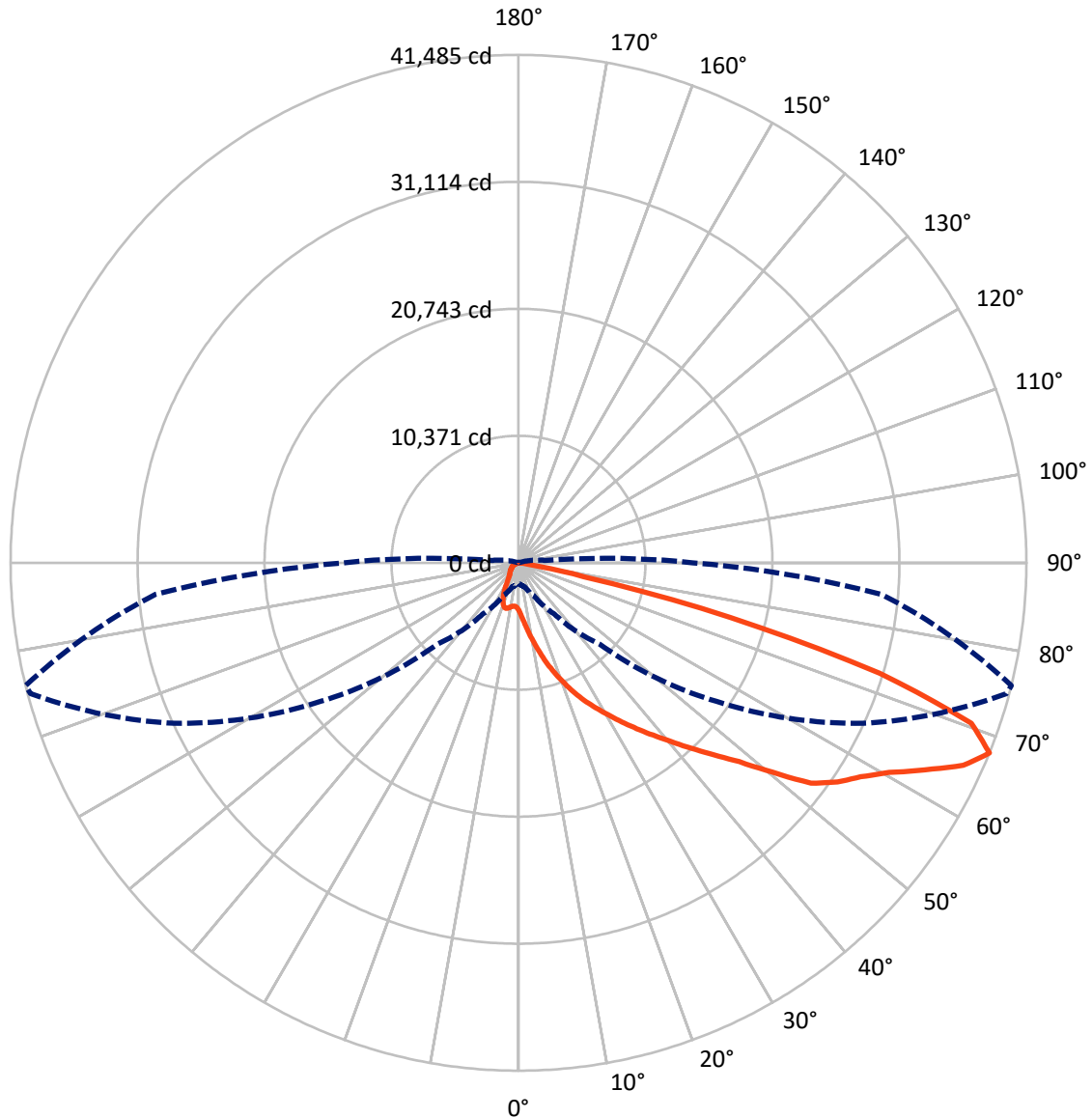
✕ Max cd  
 - - - 1/2 Max cd



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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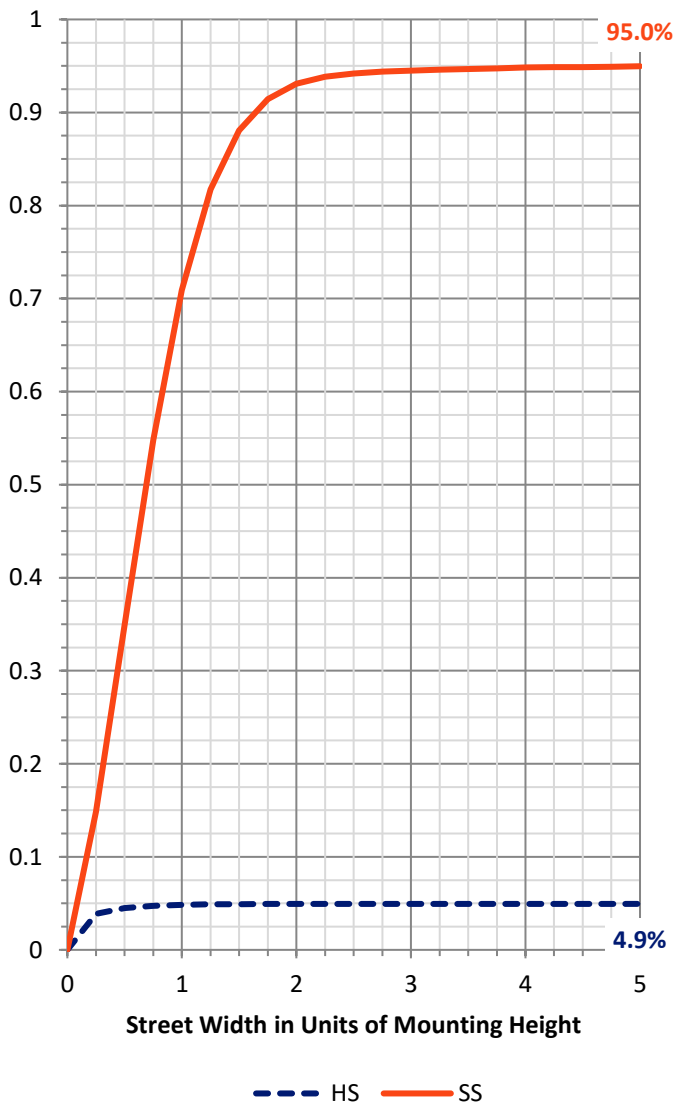
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2267.2	0.0	2267.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	43389.8	0.0	43389.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	45657.0	0.0	45657.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.6	1.1
10°-20°	1909.2	4.2
20°-30°	3884.5	8.5
30°-40°	6742.2	14.8
40°-50°	9525.9	20.9
50°-60°	10802.8	23.7
60°-70°	8959.9	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°	45657.0	100.0
0°-180°	45657.0	100.0

**Coefficient of Utilization**

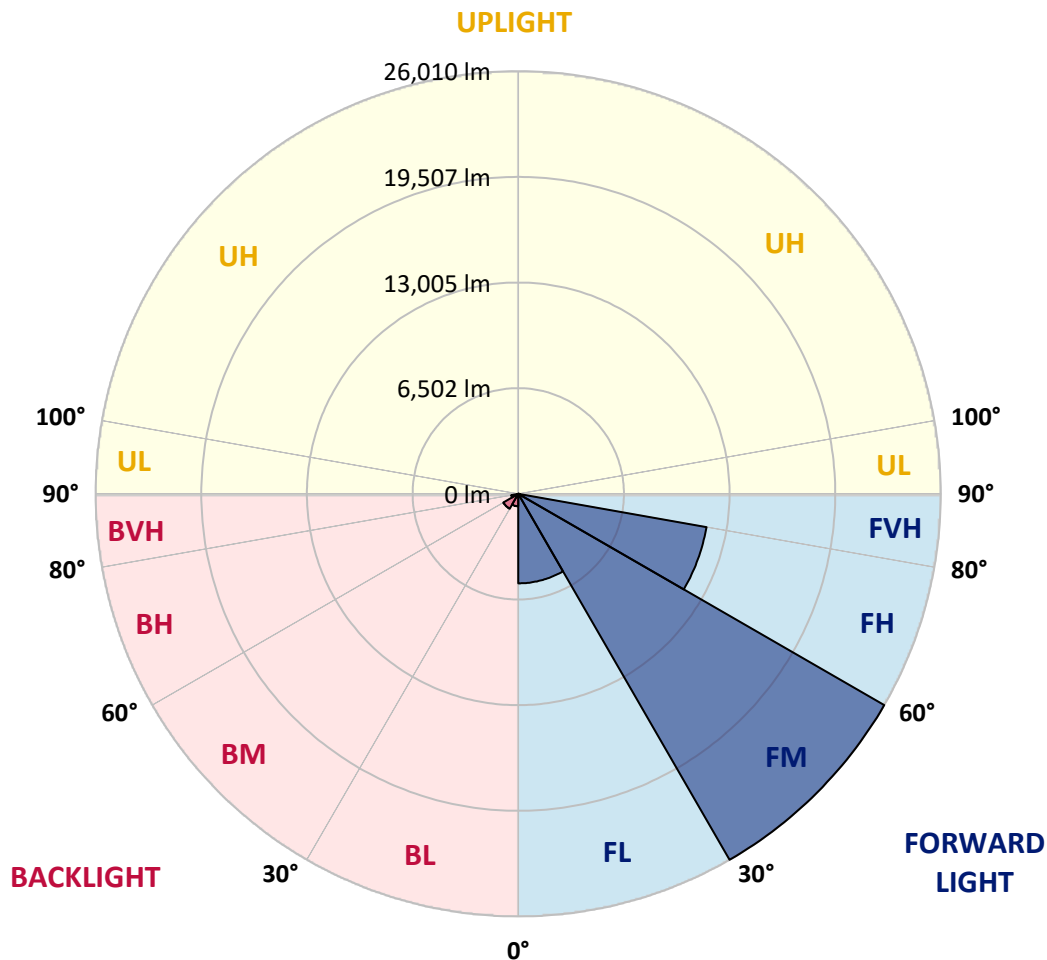


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5510.7	12.1			
FM (30°-60°)	26009.9	57.0			
FH (60°-80°)	11767.3	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°	5781.5	5651.5	5681.5	5597.5	5445.5	5133.4	4867.3	4615.2	4321.2	4311.2	4069.1
5°	7796.1	7686.1	7672.1	7502.0	7225.9	6695.8	6179.7	5591.5	4935.3	4887.3	4373.2
7.5°	9624.6	9536.6	9504.5	9302.5	8788.4	8272.2	7600.0	6735.8	5709.5	5621.5	4783.3
10°	11028.9	10986.9	10994.9	10850.9	10410.8	9930.7	9048.4	7946.1	6587.8	6451.7	5275.4
12.5°	12093.2	12103.2	12175.3	12087.2	11841.2	11485.1	10542.8	9236.5	7560.0	7374.0	5837.6
15°	12875.4	12925.5	13057.5	13167.5	13149.5	12841.4	11977.2	10546.8	8592.3	8386.2	6463.7
17.5°	13381.6	13437.6	13629.6	13873.7	14097.8	14025.8	13361.6	11811.2	9636.6	9398.5	7133.9
20°	13825.7	13891.7	14097.8	14419.9	14838.0	14928.0	14491.9	13037.5	10678.9	10388.8	7826.1
22.5°	14788.0	14786.0	14912.0	15100.0	15498.1	15730.2	15454.1	14175.8	11709.1	11407.1	8532.3
25°	16528.4	16462.4	16418.4	16270.4	16358.4	16502.4	16348.4	15240.1	12745.4	12439.3	9248.5
27.5°	18597.0	18637.0	18280.9	17882.8	17574.7	17426.7	17174.6	16226.3	13741.7	13405.6	9948.7
30°	20779.6	20791.6	20371.4	19863.3	19185.1	18623.0	18186.9	17168.6	14765.9	14399.9	10628.8
32.5°	22748.1	22670.1	22254.0	21561.8	20705.5	20073.4	19167.1	18220.9	15850.2	15496.1	11385.0
35°	24308.5	24216.5	23710.3	23080.2	22191.9	21555.8	20465.5	19271.2	16990.5	16644.5	12143.2
37.5°	25448.8	25340.8	24820.6	24172.5	23406.3	23036.2	21971.9	20413.5	18234.9	17862.8	12941.5
40°	25844.9	25750.9	25424.8	24950.7	24334.5	24250.5	23570.3	21727.8	19589.2	19193.1	13845.7
42.5°	25608.8	25516.8	25400.8	25240.8	24984.7	25064.7	25078.7	23226.2	21093.6	20703.5	14844.0
45°	24672.6	24590.6	24710.6	24944.7	25262.8	25658.9	26455.1	24836.6	22774.1	22358.0	15998.3
47.5°	23294.2	23234.2	23566.3	24150.5	25080.7	26173.0	27713.4	26529.1	24660.6	24274.5	17438.7
50°	21333.7	21323.7	21987.9	23054.2	24484.5	26421.1	29013.8	28453.6	27281.3	26875.2	19441.2
52.5°	18280.9	18300.9	19607.2	21313.7	23438.3	26253.0	29850.0	30926.3	30330.1	29908.0	21175.7
55°	15374.1	15494.1	16420.4	18881.1	21833.8	25628.9	30138.1	32080.6	32012.6	31612.5	22139.9
57.5°	12527.4	12745.4	13637.6	15936.3	19491.2	24190.5	29980.0	32580.7	33264.9	32958.8	23412.3
60°	9442.5	9542.6	10570.8	12719.4	16484.4	21565.8	28833.7	32852.8	34977.4	34765.3	25258.8
62.5°	6007.6	6257.7	7169.9	9242.5	12835.4	17920.8	26901.2	32848.8	37119.9	37236.0	27641.4
65°	3164.8	3456.9	3941.1	5727.5	8820.4	13849.7	23994.4	32540.7	39748.6	39910.7	29503.9
67.5°	1706.5	1790.5	2046.5	2972.8	5115.4	9382.5	19723.3	31020.3	41271.0	41485.1	29764.0
70°	1248.3	1294.3	1390.4	1644.4	2574.7	5449.5	14391.8	27573.4	39308.5	39228.5	26445.1
72.5°	958.3	1030.3	1102.3	1204.3	1480.4	2908.8	8960.4	21591.8	31364.4	30836.2	19767.3
75°	756.2	768.2	870.2	962.3	1110.3	1656.4	3979.1	12575.4	19143.1	17892.8	10250.7
77.5°	604.2	612.2	672.2	752.2	892.2	1088.3	1232.3	4947.3	6111.6	5453.5	2224.6
80°	358.1	378.1	500.1	580.2	740.2	686.2	450.1	1074.3	954.3	864.2	374.1
82.5°	200.1	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°	3949.1	3841.0	3637.0	3436.9	3268.9	3130.8	3006.8	2956.8	2916.8	2910.8	2878.8
5°	4125.1	3907.0	3516.9	3196.9	2982.8	2830.8	2700.7	2620.7	2558.7	2534.7	2512.7
7.5°	4391.2	4061.1	3500.9	3132.8	2876.8	2620.7	2380.6	2120.6	1958.5	1896.5	1860.5
10°	4715.3	4265.1	3561.0	3114.8	2666.7	2126.6	1728.5	1398.4	1264.3	1220.3	1208.3
12.5°	5093.4	4519.2	3665.0	3002.8	2218.6	1510.4	1192.3	1080.3	1050.3	1036.3	1036.3
15°	5527.5	4797.3	3739.0	2678.7	1640.4	1142.3	1032.3	980.3	948.3	930.2	932.2
17.5°	5971.6	5069.4	3703.0	2208.6	1210.3	1016.3	934.2	878.2	834.2	816.2	812.2
20°	6419.7	5321.4	3502.9	1644.4	1024.3	922.2	830.2	768.2	724.2	706.2	702.2
22.5°	6883.8	5535.5	3150.8	1206.3	920.2	818.2	728.2	666.2	624.2	608.2	600.2
25°	7336.0	5709.5	2658.7	976.3	822.2	720.2	634.2	576.2	538.1	522.1	520.1
27.5°	7758.1	5819.6	2088.6	862.2	736.2	632.2	554.1	502.1	470.1	458.1	456.1
30°	8138.2	5829.6	1544.4	778.2	660.2	556.1	484.1	438.1	410.1	398.1	394.1
32.5°	8522.3	5745.5	1124.3	702.2	590.2	490.1	420.1	384.1	364.1	354.1	354.1
35°	8884.4	5551.5	876.2	636.2	522.1	426.1	370.1	344.1	332.1	322.1	322.1
37.5°	9238.5	5273.4	744.2	578.2	458.1	372.1	326.1	310.1	300.1	290.1	290.1
40°	9598.6	4923.3	676.2	524.1	406.1	330.1	290.1	276.1	266.1	258.1	256.1
42.5°	10040.7	4519.2	632.2	474.1	360.1	292.1	256.1	240.1	232.1	224.1	220.1
45°	10552.8	4171.1	596.2	424.1	322.1	260.1	222.1	206.1	194.1	184.0	182.0
47.5°	11291.0	3919.0	548.1	370.1	286.1	226.1	192.1	174.0	156.0	146.0	144.0
50°	12233.3	3711.0	486.1	322.1	250.1	192.1	160.0	138.0	122.0	112.0	112.0
52.5°	12701.4	3438.9	430.1	280.1	210.1	162.0	130.0	104.0	96.0	86.0	86.0
55°	12889.4	3230.9	374.1	238.1	174.0	134.0	102.0	80.0	74.0	68.0	66.0
57.5°	13417.6	3170.8	326.1	202.1	144.0	106.0	78.0	60.0	56.0	48.0	48.0
60°	14267.8	3200.9	282.1	172.0	116.0	82.0	58.0	46.0	42.0	34.0	34.0
62.5°	15186.1	3162.8	238.1	148.0	90.0	60.0	40.0	34.0	34.0	20.0	18.0
65°	15362.1	2816.8	204.1	122.0	70.0	44.0	26.0	22.0	30.0	4.0	0.0
67.5°	14257.8	2184.6	176.0	94.0	52.0	34.0	20.0	10.0	26.0	0.0	0.0
70°	11401.0	1388.4	142.0	68.0	40.0	28.0	16.0	4.0	20.0	0.0	0.0
72.5°	8062.2	806.2	112.0	48.0	34.0	22.0	12.0	0.0	12.0	0.0	0.0
75°	4077.1	430.1	70.0	36.0	26.0	16.0	8.0	0.0	2.0	0.0	0.0
77.5°	882.2	200.1	44.0	26.0	18.0	10.0	4.0	0.0	0.0	0.0	0.0
80°	192.1	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)