

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: P322830

Luminaire Tested: **GAN-SA6A-730-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6A-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18397 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

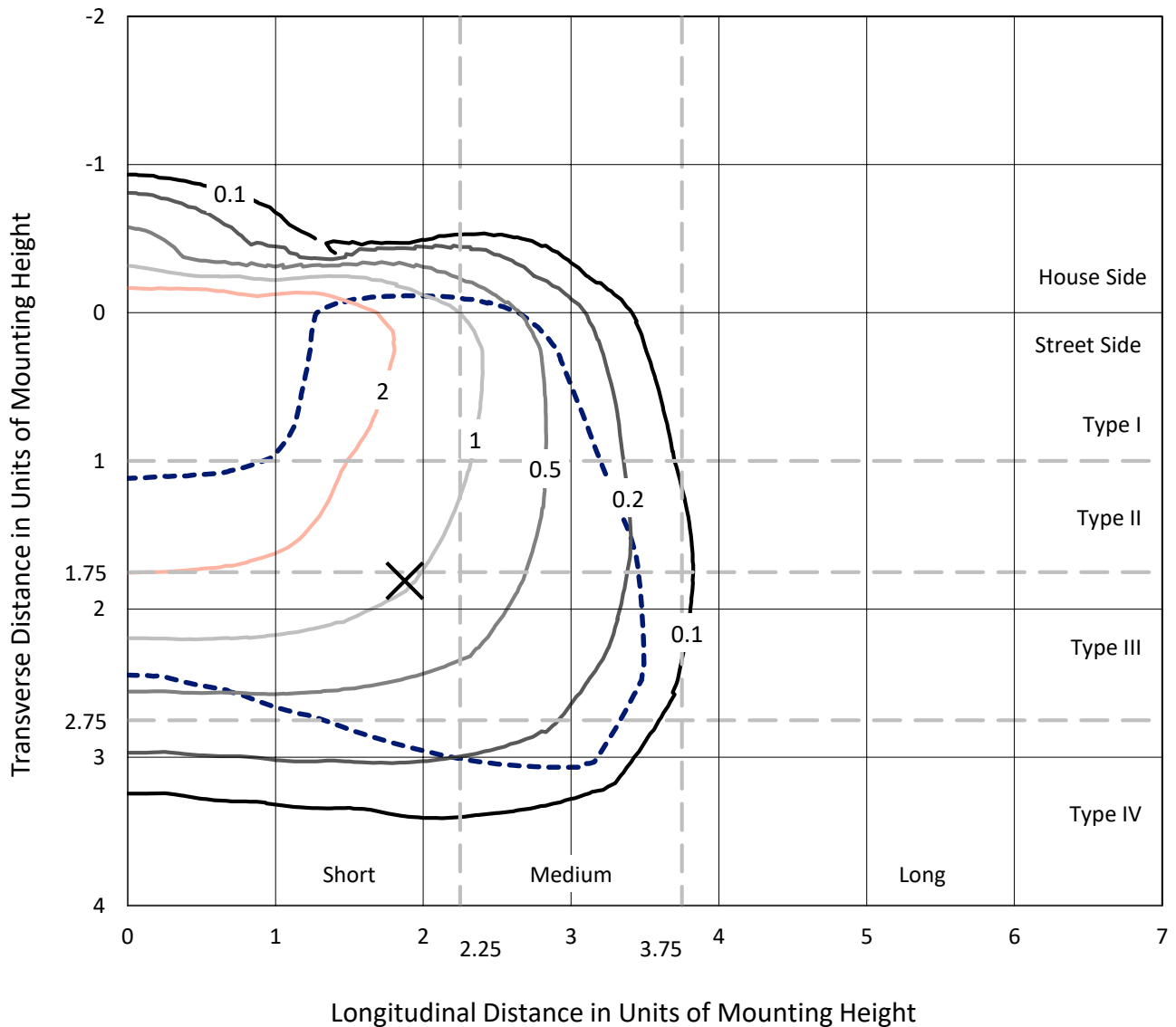
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

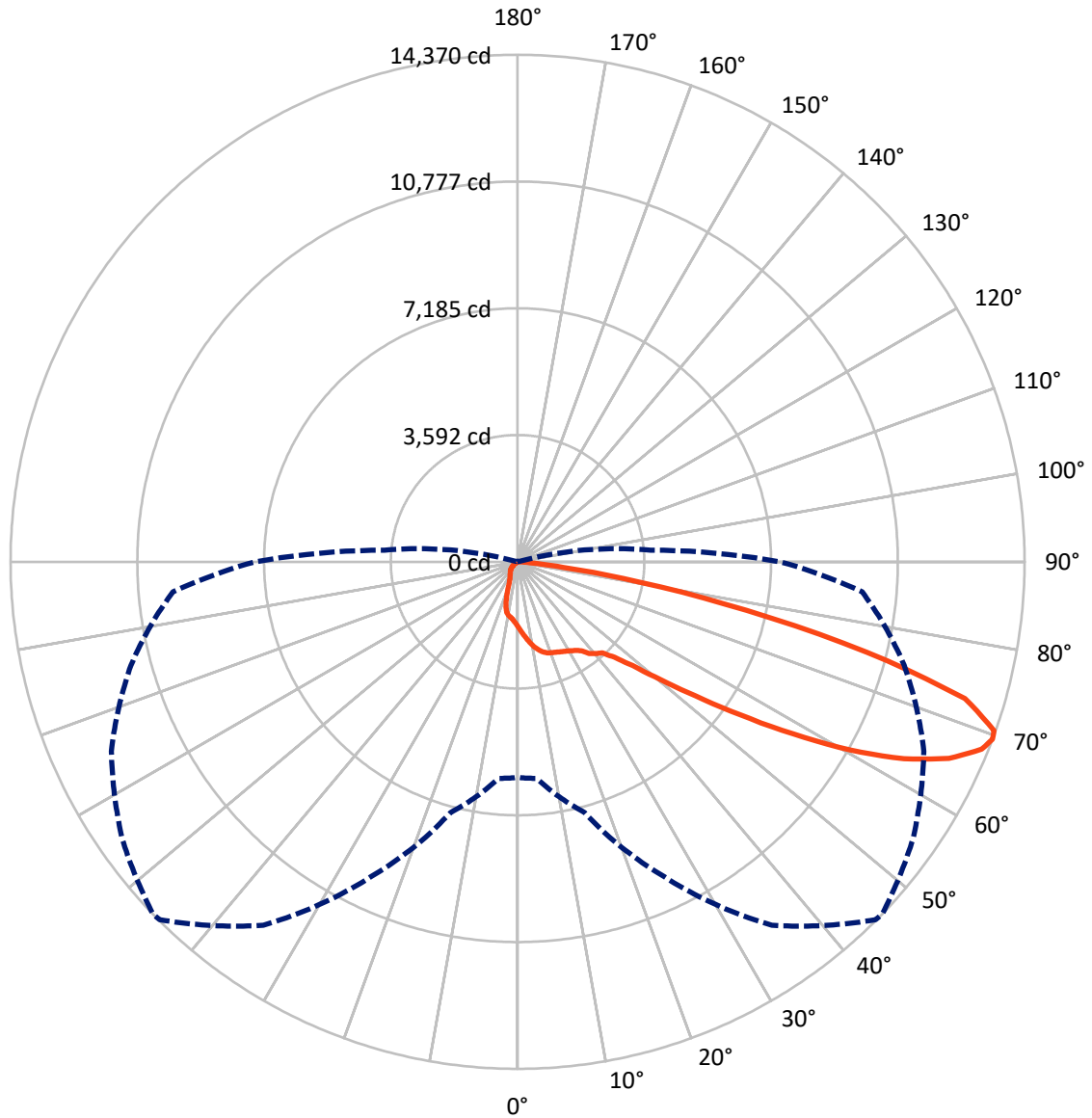
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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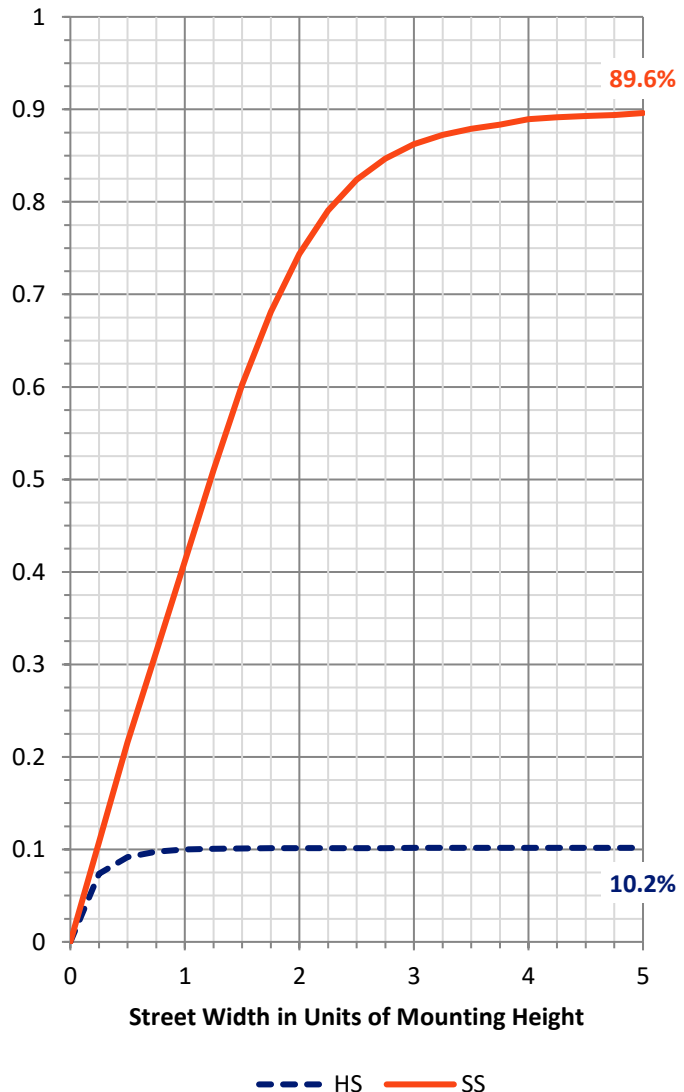
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1888.0	0.0	1888.0
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	16509.0	0.0	16509.0
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	18397.0	0.0	18397.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.5	1.0
10°-20°	556.6	3.0
20°-30°	875.4	4.8
30°-40°	1255.3	6.8
40°-50°	2169.6	11.8
50°-60°	4286.2	23.3
60°-70°	5990.4	32.6
70°-80°	2894.0	15.7
80°-90°	186.0	1.0
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°	18397.0	100.0
0°-180°	18397.0	100.0

**Coefficient of Utilization**

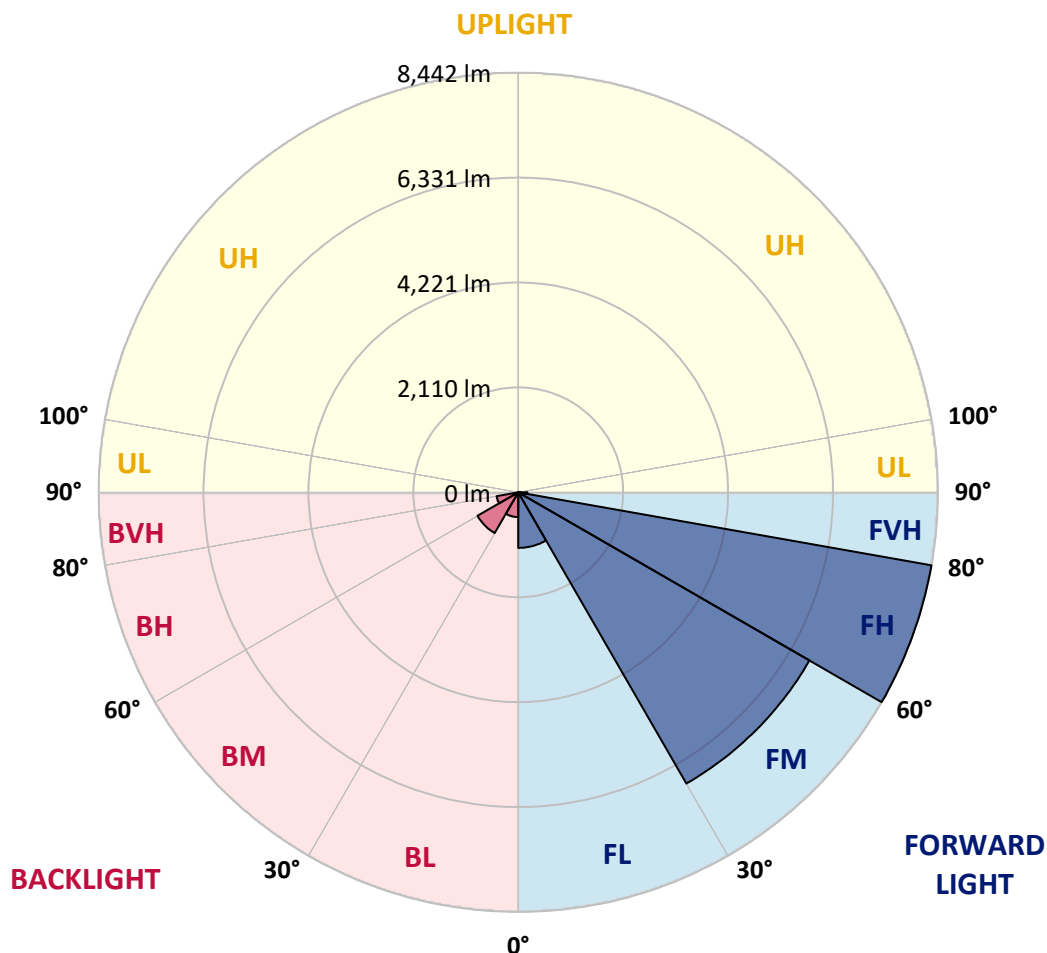


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.8	6.1			
FM (30°-60°)	6765.0	36.8			
FH (60°-80°)	8441.7	45.9			G4/12000
FVH (80°-90°)	184.4	1.0			G2/225
BL (0°-30°)	497.6	2.7	B1/500		
BM (30°-60°)	946.1	5.1	B1/1000		
BH (60°-80°)	442.7	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3
2.5°	2047.7	2045.2	2033.1	2027.9	1998.6	1981.3	1974.4	1952.9	1921.8	1890.8	1856.2
5°	2280.6	2279.8	2257.3	2235.8	2180.6	2128.8	2119.3	2069.3	1999.4	1933.9	1868.3
7.5°	2518.7	2507.5	2485.1	2443.7	2363.4	2280.6	2272.9	2202.1	2102.9	2008.1	1914.0
10°	2720.5	2713.6	2684.3	2621.3	2527.3	2433.3	2423.8	2336.7	2224.6	2108.1	1988.2
12.5°	2877.5	2872.4	2833.5	2755.0	2655.0	2557.5	2544.6	2466.9	2347.1	2216.8	2075.3
15°	2973.3	2970.7	2923.2	2839.6	2741.2	2656.7	2645.5	2577.4	2466.1	2329.8	2170.2
17.5°	2995.7	2996.6	2947.4	2862.9	2781.8	2721.4	2712.8	2661.0	2567.9	2432.4	2265.1
20°	2945.7	2956.0	2912.0	2838.7	2788.7	2756.8	2749.9	2718.8	2640.3	2512.7	2341.0
22.5°	2874.9	2880.1	2849.9	2800.8	2780.1	2786.1	2782.6	2765.4	2699.0	2581.7	2416.1
25°	2831.8	2831.8	2813.7	2772.3	2786.1	2823.2	2824.1	2820.6	2768.0	2666.2	2507.5
27.5°	2830.1	2824.9	2804.2	2773.2	2811.1	2868.0	2871.5	2894.8	2862.0	2768.8	2621.3
30°	2899.1	2893.1	2849.1	2808.5	2856.8	2918.1	2926.7	2977.6	2961.2	2880.1	2748.1
32.5°	3060.4	3038.8	2941.4	2874.9	2911.2	2984.5	2995.7	3076.8	3102.7	3017.3	2870.6
35°	3281.2	3213.1	3072.5	3000.9	3004.3	3081.1	3091.4	3210.5	3287.3	3143.2	2965.5
37.5°	3585.7	3552.1	3323.5	3132.0	3147.5	3264.0	3294.2	3423.5	3402.0	3212.2	3073.3
40°	4253.3	4200.7	3957.5	3499.4	3284.7	3412.3	3421.8	3490.8	3492.5	3368.3	3297.6
42.5°	5162.5	5140.9	4884.7	4166.2	3554.6	3511.5	3528.8	3645.2	3775.5	3697.8	3694.4
45°	6169.1	6157.9	5886.2	5051.2	4100.7	3836.7	3858.3	4014.4	4263.7	4280.9	4390.5
47.5°	6979.0	6973.9	6817.7	6038.8	4936.5	4387.9	4394.8	4560.4	4998.6	5215.1	5390.2
50°	7717.4	7742.4	7619.1	7107.6	6075.1	5251.3	5234.9	5345.3	6049.2	6403.7	6621.1
52.5°	8743.9	8779.2	8433.3	8104.7	7269.7	6322.6	6309.7	6425.3	7312.0	7577.7	7616.5
55°	9650.4	9590.0	9316.6	9221.7	8726.6	7645.8	7642.4	7744.1	8533.4	8646.4	8718.0
57.5°	10050.7	10027.4	10159.3	10376.7	10252.5	9209.7	9201.9	9124.3	9626.3	9638.3	9858.3
60°	10303.4	10331.9	10736.4	11406.6	11716.3	10892.5	10842.5	10368.9	10670.0	10643.2	10878.7
62.5°	10113.6	10169.7	10897.7	12014.7	12811.7	12361.5	12290.8	11509.3	11561.9	11469.6	11688.7
65°	9106.1	9193.3	10386.2	11900.0	13355.2	13509.6	13438.0	12515.9	12270.0	12118.2	11996.6
67.5°	7393.9	7445.7	8691.2	10902.0	13110.2	14194.4	14179.8	13398.3	12804.8	12008.7	11065.0
69°	6110.4	6161.3	7360.3	9851.4	12571.1	14341.1	14369.5	13681.2	12703.1	11342.8	9804.0
70°	5175.4	5229.8	6346.8	8950.9	11945.7	14272.9	14323.8	13654.5	12411.5	10571.6	8697.3
72.5°	2714.5	2761.1	3907.4	6166.5	9738.4	13105.9	13260.3	12500.4	10520.8	7677.7	5142.6
75°	853.1	879.8	1525.9	3223.4	6667.7	10190.4	10225.8	9805.7	7470.7	4223.1	2141.8
77.5°	325.2	317.4	508.1	1187.8	3370.9	6416.7	6633.2	6127.7	3920.4	1493.1	494.3
80°	175.1	176.0	263.9	491.7	1442.2	3297.6	3480.5	2969.8	1393.0	465.8	113.9
82.5°	75.9	79.4	148.4	260.5	662.5	1216.2	1307.7	1088.6	532.2	313.1	42.3
85°	16.4	18.1	71.6	141.5	270.0	341.6	358.0	352.8	339.0	243.2	16.4
87.5°	0.0	0.0	31.9	50.9	68.1	77.6	68.1	88.8	187.2	163.9	8.6
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°	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3
2.5°	1845.0	1829.5	1802.8	1773.4	1752.7	1731.2	1713.9	1706.2	1697.5	1691.5	1699.3
5°	1841.6	1811.4	1759.6	1709.6	1673.4	1644.1	1619.9	1610.4	1600.9	1594.0	1593.2
7.5°	1871.8	1829.5	1750.2	1676.8	1620.8	1581.1	1548.3	1534.5	1523.3	1518.1	1513.8
10°	1929.6	1875.2	1769.1	1673.4	1600.9	1533.6	1462.9	1408.6	1373.2	1356.8	1350.8
12.5°	2004.6	1936.5	1805.4	1691.5	1586.3	1456.9	1306.8	1177.4	1093.7	1066.1	1049.7
15°	2092.6	2008.1	1852.8	1714.8	1532.8	1296.4	1042.0	872.9	795.3	779.8	762.5
17.5°	2177.1	2084.0	1909.7	1719.1	1415.5	1035.9	763.4	648.7	618.5	628.8	631.4
20°	2251.3	2159.0	1965.8	1681.1	1202.4	777.2	590.9	562.4	573.6	593.4	596.9
22.5°	2326.3	2231.5	2017.5	1581.1	929.8	590.0	532.2	539.1	550.3	570.2	573.6
25°	2417.8	2319.4	2065.9	1397.4	697.8	502.0	505.5	515.8	527.0	545.1	546.9
27.5°	2523.0	2430.7	2097.8	1158.4	517.5	461.5	472.7	488.2	499.4	516.7	520.1
30°	2662.8	2577.4	2108.1	910.9	433.9	425.2	430.4	449.4	465.8	481.3	483.9
32.5°	2793.9	2722.3	2073.6	687.5	402.0	391.6	391.6	402.8	421.8	436.5	439.9
35°	2914.6	2868.0	1963.2	502.9	377.8	360.6	351.9	351.9	364.0	376.1	379.5
37.5°	3074.2	3072.5	1784.7	401.1	354.5	334.7	316.6	302.8	298.4	301.0	302.8
40°	3347.6	3350.2	1551.8	359.7	334.7	307.9	280.3	255.3	232.0	224.3	223.4
42.5°	3774.6	3735.8	1307.7	339.9	317.4	280.3	238.9	205.3	169.1	157.9	157.0
45°	4452.6	4222.3	1048.9	321.7	299.3	249.3	197.5	151.8	122.5	113.9	113.9
47.5°	5440.2	4861.4	812.5	301.9	275.2	213.9	149.2	109.5	89.7	85.4	86.3
50°	6461.5	5487.7	622.8	276.9	245.8	176.8	110.4	79.4	68.1	68.1	69.0
52.5°	7367.2	5946.6	485.6	250.1	209.6	138.9	83.7	62.1	56.9	56.1	56.9
55°	8215.1	6242.4	371.8	219.1	166.5	103.5	63.8	50.9	47.4	45.7	44.9
57.5°	9032.8	6389.1	278.6	176.8	120.8	75.0	50.9	43.1	39.7	37.1	36.2
60°	9577.1	6270.0	191.5	130.2	83.7	54.3	42.3	37.1	32.8	30.2	29.3
62.5°	9884.2	5944.8	123.3	94.0	59.5	40.5	33.6	31.1	25.0	22.4	22.4
65°	9760.0	5408.3	86.3	67.3	43.1	30.2	25.0	25.0	18.1	14.7	13.8
67.5°	8649.0	4569.0	65.6	50.0	31.1	22.4	19.0	21.6	11.2	6.9	6.9
69°	7441.4	3786.7	56.1	41.4	25.9	18.1	16.4	19.8	7.8	5.2	4.3
70°	6467.5	3266.6	50.9	36.2	21.6	15.5	14.7	19.0	7.8	4.3	3.5
72.5°	3869.5	1821.7	38.8	25.9	13.8	12.1	12.1	21.6	7.8	4.3	3.5
75°	1563.8	641.8	28.5	18.1	10.4	10.4	14.7	27.6	6.9	3.5	2.6
77.5°	354.5	140.6	16.4	11.2	6.9	10.4	17.3	21.6	4.3	1.7	0.0
80°	86.3	34.5	10.4	6.9	4.3	7.8	12.9	12.1	0.9	0.0	0.0
82.5°	28.5	12.1	4.3	3.5	0.9	2.6	6.0	3.5	0.0	0.0	0.0
85°	12.1	6.9	1.7	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	7.8	2.6	0.0	0.0	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)