

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: P323493

Luminaire Tested: **GAN-SA9C-730-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49196 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

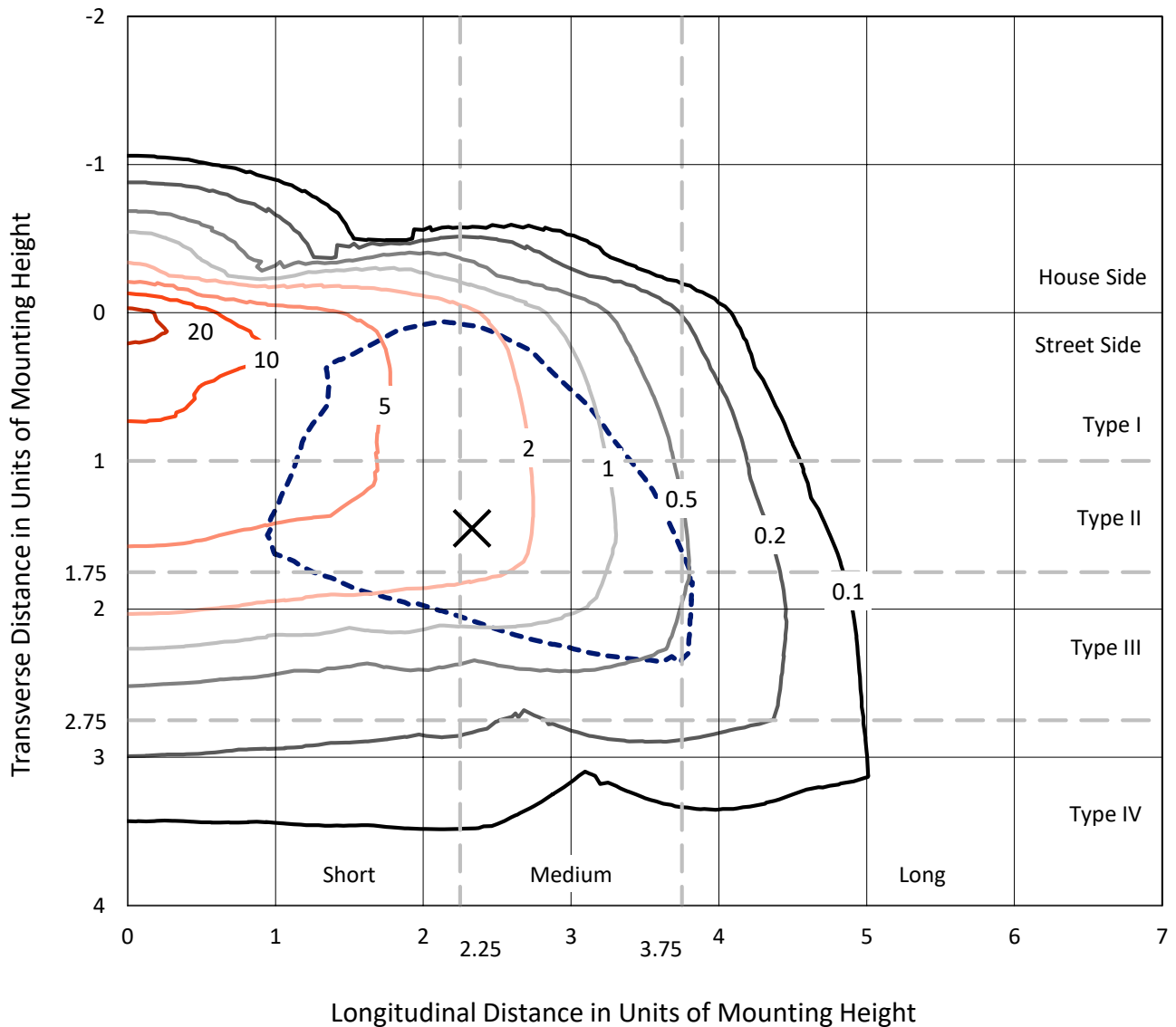
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

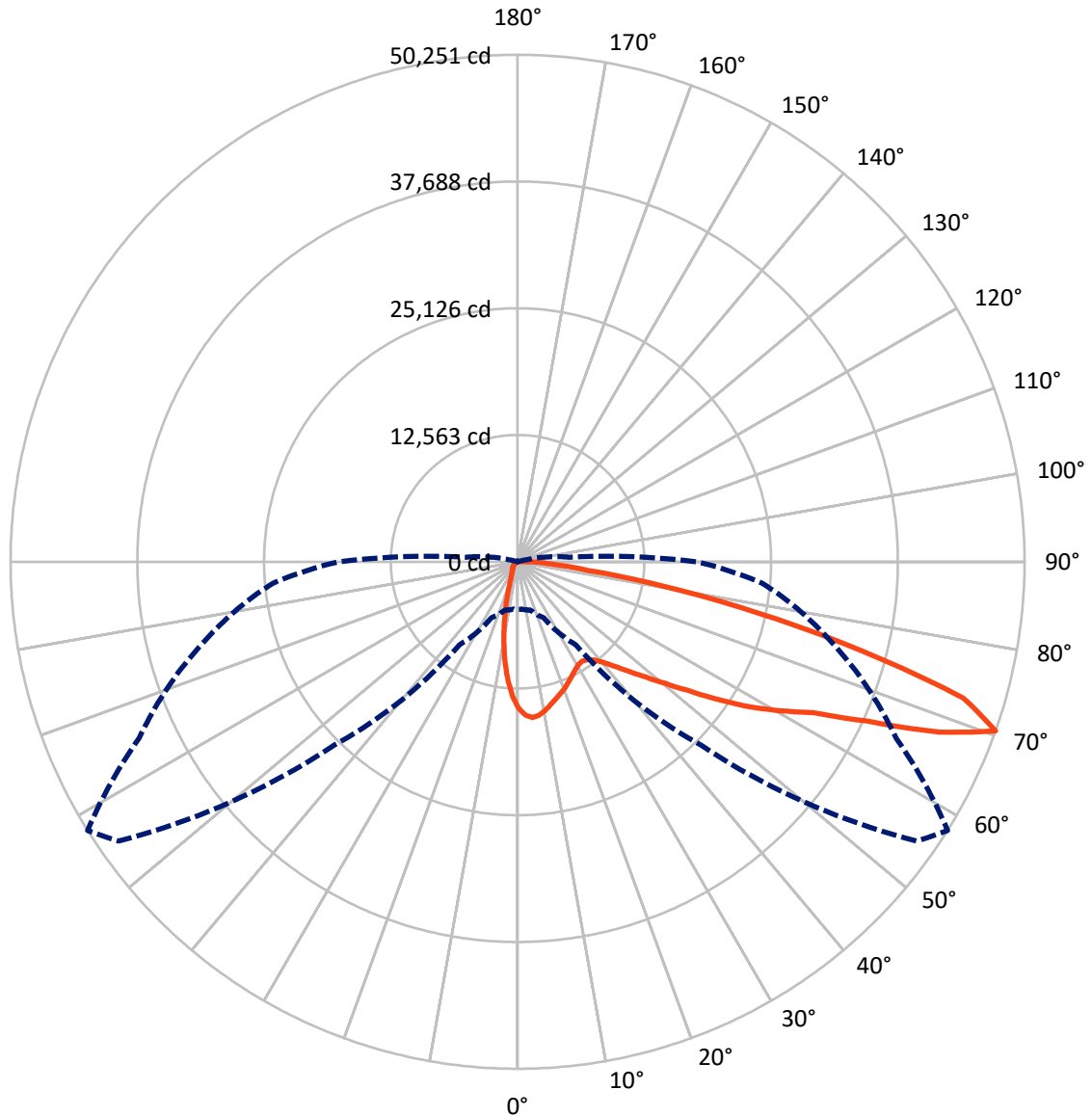
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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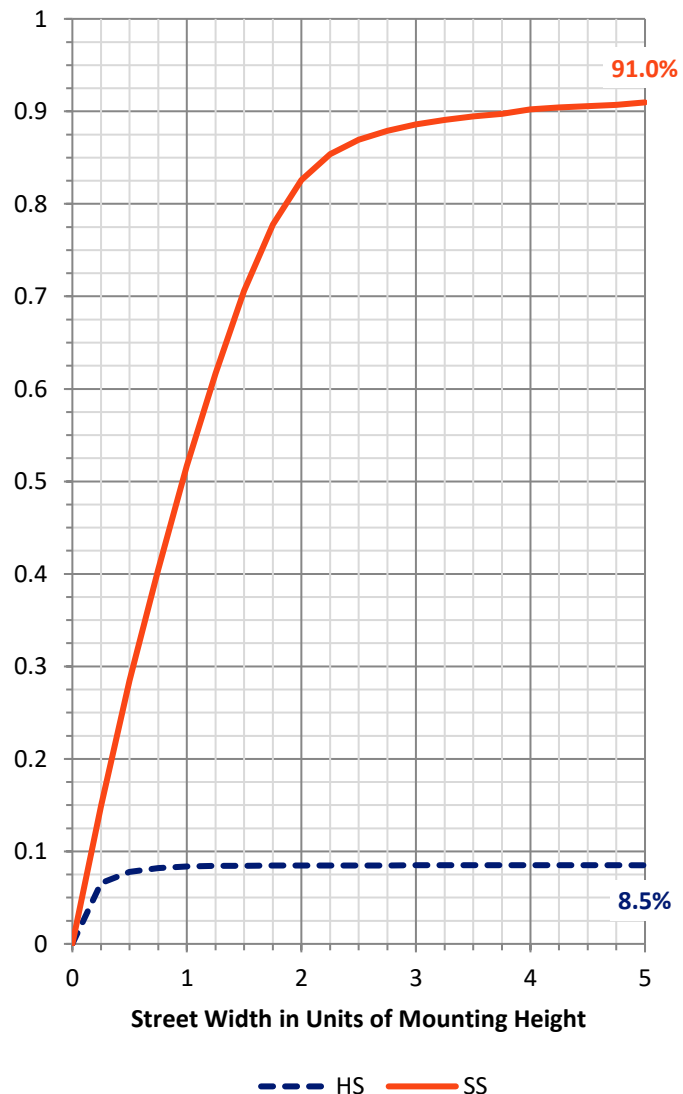
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4210.1	0.0	4210.1
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	44985.9	0.0	44985.9
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	49196.0	0.0	49196.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1188.4	2.4
10°-20°	2494.1	5.1
20°-30°	3278.9	6.7
30°-40°	4342.5	8.8
40°-50°	6490.7	13.2
50°-60°	10397.9	21.1
60°-70°	13106.4	26.6
70°-80°	7069.5	14.4
80°-90°	827.5	1.7
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°	49196.0	100.0
0°-180°	49196.0	100.0

**Coefficient of Utilization**

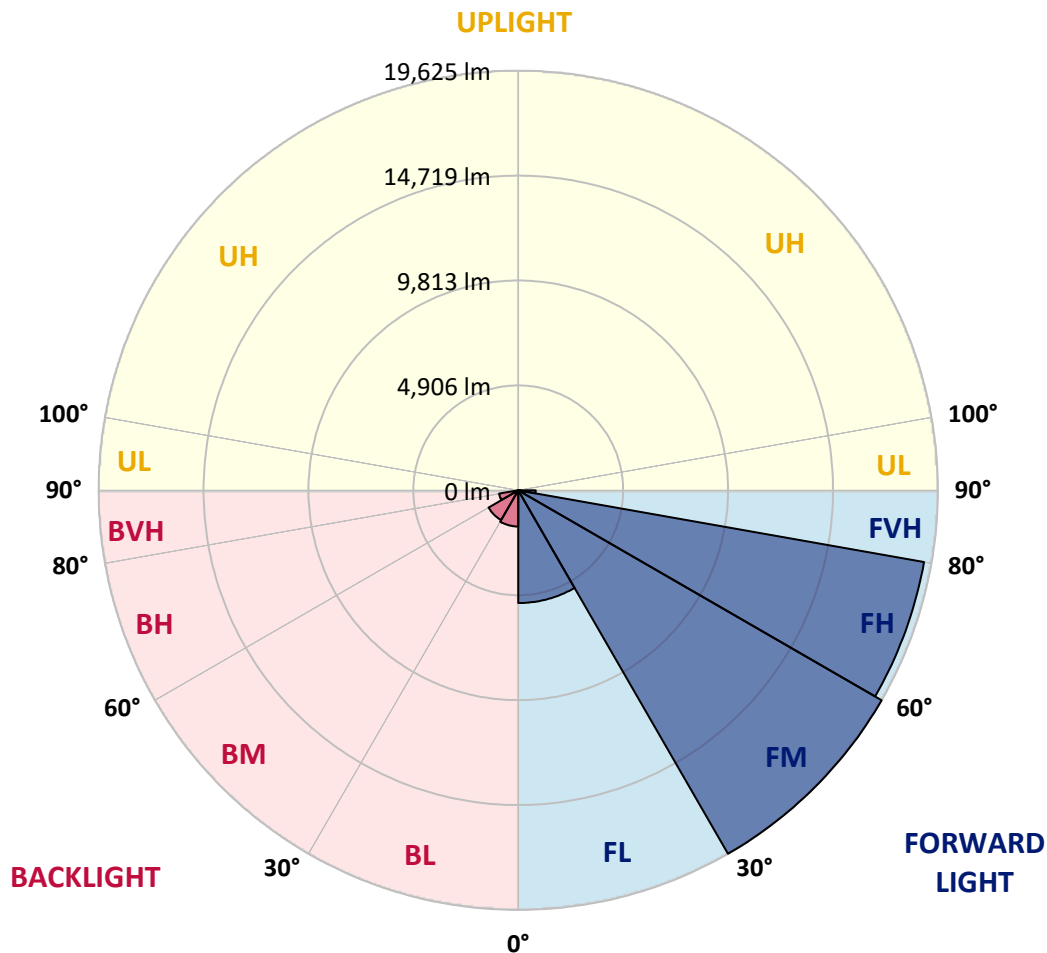


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5269.9	10.7			
FM (30°-60°)	19625.0	39.9			
FH (60°-80°)	19270.6	39.2			G5
FVH (80°-90°)	820.4	1.7			G5
BL (0°-30°)	1691.4	3.4	B3/2500		
BM (30°-60°)	1606.1	3.3	B2/2500		
BH (60°-80°)	905.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3
2.5°	15737.2	15698.3	15684.0	15659.4	15565.3	15473.3	15291.2	15240.1	15125.5	14853.4	14565.0
5°	15749.4	15747.4	15790.3	15780.1	15747.4	15704.4	15573.5	15506.0	15311.7	14923.0	14395.2
7.5°	14990.5	15029.4	15125.5	15203.2	15293.2	15409.8	15426.2	15360.8	15201.2	14781.8	14082.2
10°	13971.8	14033.1	14168.1	14321.6	14556.8	14790.0	14998.7	14990.5	14935.3	14522.0	13705.8
12.5°	12951.0	13022.6	13178.0	13405.1	13738.6	14119.0	14491.4	14542.5	14634.5	14288.8	13358.1
15°	12057.0	12118.4	12271.8	12550.0	12963.3	13474.7	14020.9	14115.0	14352.2	14106.8	13067.6
17.5°	11298.1	11337.0	11449.5	11758.4	12237.1	12856.9	13566.7	13750.8	14104.7	13963.6	12816.0
20°	10768.3	10774.4	10848.1	11064.9	11543.6	12237.1	13096.2	13360.1	13842.9	13840.8	12556.2
22.5°	10506.4	10486.0	10500.3	10625.1	10976.9	11645.9	12625.7	12938.7	13607.6	13736.5	12292.3
25°	10457.3	10441.0	10400.1	10416.4	10629.2	11128.3	12151.1	12513.2	13401.0	13673.1	12063.2
27.5°	10610.8	10627.1	10557.6	10483.9	10500.3	10792.8	11729.7	12149.1	13233.3	13673.1	11901.6
30°	10919.7	10927.8	10876.7	10780.6	10651.7	10698.7	11437.2	11856.6	13149.4	13767.2	11799.3
32.5°	11261.3	11306.3	11300.1	11222.4	11038.3	10848.1	11367.7	11750.2	13143.3	13975.8	11789.1
35°	11684.7	11735.9	11821.8	11805.4	11613.1	11300.1	11604.9	11905.7	13264.0	14319.5	11899.5
37.5°	12134.8	12212.5	12396.6	12484.6	12359.8	12005.9	12136.8	12351.6	13587.2	14875.9	12179.8
40°	12570.5	12658.5	12993.9	13339.7	13245.6	12881.4	12942.8	13114.6	14162.0	15675.8	12711.6
42.5°	12998.0	13129.0	13622.0	14190.6	14303.2	14012.7	14045.4	14182.5	15015.0	16776.3	13581.0
45°	13509.4	13656.7	14387.0	15088.7	15389.4	15262.6	15401.7	15491.7	16129.9	18230.8	14753.2
47.5°	14260.2	14430.0	15326.0	16125.8	16653.6	16735.4	17015.7	17075.0	17539.4	19924.6	16281.3
50°	15724.9	15771.9	16582.0	17308.2	18069.2	18560.1	18879.3	18924.3	19245.4	21775.9	18189.9
52.5°	17568.0	17598.7	18056.9	18543.8	19409.1	20411.5	21158.1	21221.5	21289.0	23580.2	20073.9
55°	19398.9	19394.8	19697.5	19983.9	20974.0	22430.5	24050.7	24089.5	23604.7	25292.4	21514.1
57.5°	20542.4	20652.8	21113.1	21481.3	22864.2	24731.9	26980.0	27123.2	26037.0	26560.7	22937.8
60°	20178.2	20231.4	21252.2	22614.6	25218.7	28002.8	29944.2	29981.0	27865.8	27826.9	24738.0
62.5°	17191.6	17220.2	18824.0	21632.7	26411.3	32245.5	33519.9	32920.6	29968.7	29584.1	26892.1
65°	11782.9	11969.1	13309.0	16780.4	24220.4	34906.9	39055.5	38063.3	33174.2	32116.6	28839.5
67.5°	6938.8	6900.0	7562.8	10119.8	17788.9	33139.5	46057.7	45071.7	37545.8	33812.5	28268.8
70°	4739.8	4713.2	4966.8	6126.7	10042.1	25707.6	48260.9	50251.3	41405.9	32671.0	24328.9
72.5°	3383.5	3397.8	3772.2	4760.2	6304.7	14978.2	41502.1	46213.2	40196.9	28481.5	18492.6
75°	2297.3	2336.1	2872.1	3905.1	5527.3	7620.0	29451.2	35129.9	32732.4	20699.9	10629.2
77.5°	1235.6	1278.5	1910.6	3146.2	4997.5	5294.1	18944.7	24177.5	20560.8	9305.6	3080.7
80°	515.5	540.1	893.9	2287.0	4318.4	4649.8	11146.7	14661.1	8761.5	1834.9	687.3
82.5°	223.0	235.2	372.3	1364.4	3228.0	3925.6	5901.7	7053.4	2655.2	403.0	345.7
85°	43.0	45.0	153.4	722.1	2060.0	2215.4	3825.4	3749.7	1192.6	173.9	251.6
87.5°	0.0	0.0	36.8	227.1	605.5	1206.9	2334.1	2305.4	405.0	83.9	94.1
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°	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3	14532.3
2.5°	14417.7	14276.6	13979.9	13613.8	13333.5	13024.6	12779.1	12468.2	12333.2	12339.3	12265.7
5°	14094.5	13804.0	13147.4	12318.9	11680.6	11021.9	10455.3	9890.7	9557.3	9448.8	9346.6
7.5°	13632.2	13171.9	12124.5	10848.1	9768.0	8712.4	7793.9	6985.9	6474.5	6224.9	6132.8
10°	13110.5	12464.1	10948.3	9266.8	7724.4	6296.5	5105.9	4070.8	3657.6	3377.4	3305.8
12.5°	12652.3	11776.8	9798.6	7644.6	5813.7	4091.3	2956.0	2311.6	2031.3	1920.9	1902.5
15°	12220.7	11134.4	8691.9	6175.8	4025.8	2518.2	1879.9	1661.1	1595.6	1577.2	1577.2
17.5°	11813.6	10522.8	7609.8	4729.5	2663.4	1765.4	1556.7	1507.6	1487.2	1485.1	1487.2
20°	11388.1	9911.2	6546.1	3465.3	1859.5	1495.4	1438.1	1411.5	1405.4	1405.4	1405.4
22.5°	10981.0	9299.5	5511.0	2475.2	1491.3	1364.4	1335.8	1317.4	1311.3	1309.2	1305.1
25°	10590.3	8718.5	4500.4	1749.0	1309.2	1249.9	1225.3	1200.8	1182.4	1172.2	1166.0
27.5°	10269.1	8201.0	3559.4	1403.3	1182.4	1131.2	1100.6	1063.7	1018.7	998.3	990.1
30°	10013.4	7728.4	2743.2	1184.4	1063.7	1012.6	965.5	902.1	836.7	801.9	799.8
32.5°	9813.0	7264.1	2082.5	1047.4	957.4	893.9	826.4	746.7	671.0	632.1	630.1
35°	9714.8	6855.0	1591.5	947.1	863.3	783.5	699.6	611.6	538.0	501.2	497.1
37.5°	9780.2	6509.2	1241.7	863.3	783.5	691.4	593.2	501.2	435.7	403.0	400.9
40°	10019.6	6288.3	1008.5	791.7	716.0	603.5	497.1	411.2	355.9	329.3	327.3
42.5°	10528.9	6206.5	861.2	732.3	650.5	521.6	413.2	339.6	288.4	270.0	265.9
45°	11379.9	6327.2	761.0	675.1	583.0	443.9	341.6	278.2	233.2	218.9	216.8
47.5°	12513.2	6644.3	689.4	619.8	521.6	374.4	284.3	225.0	190.2	175.9	173.9
50°	13973.8	7147.5	630.1	564.6	464.4	317.1	235.2	178.0	147.3	137.1	137.1
52.5°	15563.3	7746.9	576.9	513.5	407.1	263.9	190.2	137.1	116.6	104.3	104.3
55°	16876.6	8270.5	519.6	474.6	337.5	218.9	145.2	104.3	85.9	79.8	79.8
57.5°	18187.8	8829.0	454.1	407.1	270.0	178.0	110.5	77.7	63.4	59.3	59.3
60°	19887.8	9512.3	390.7	331.4	212.7	135.0	81.8	55.2	47.0	45.0	45.0
62.5°	21757.5	9913.2	333.4	265.9	165.7	100.2	59.3	36.8	34.8	34.8	32.7
65°	22901.0	9346.6	280.3	212.7	128.9	75.7	38.9	26.6	30.7	28.6	24.5
67.5°	21442.5	7317.3	229.1	165.7	100.2	57.3	24.5	18.4	32.7	26.6	20.5
70°	17754.2	5122.3	178.0	116.6	79.8	49.1	16.4	12.3	34.8	26.6	16.4
72.5°	13286.5	3428.5	141.1	77.7	59.3	43.0	14.3	6.1	30.7	22.5	14.3
75°	7260.0	1380.8	112.5	49.1	36.8	30.7	10.2	4.1	20.5	16.4	10.2
77.5°	1910.6	364.1	81.8	32.7	20.5	12.3	6.1	2.0	10.2	8.2	4.1
80°	486.9	141.1	53.2	22.5	14.3	6.1	0.0	0.0	2.0	0.0	0.0
82.5°	259.8	59.3	32.7	16.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	196.4	38.9	18.4	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	75.7	12.3	6.1	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)