

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: P324843

Luminaire Tested: **GAN-SA9B-750-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-750-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41822 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

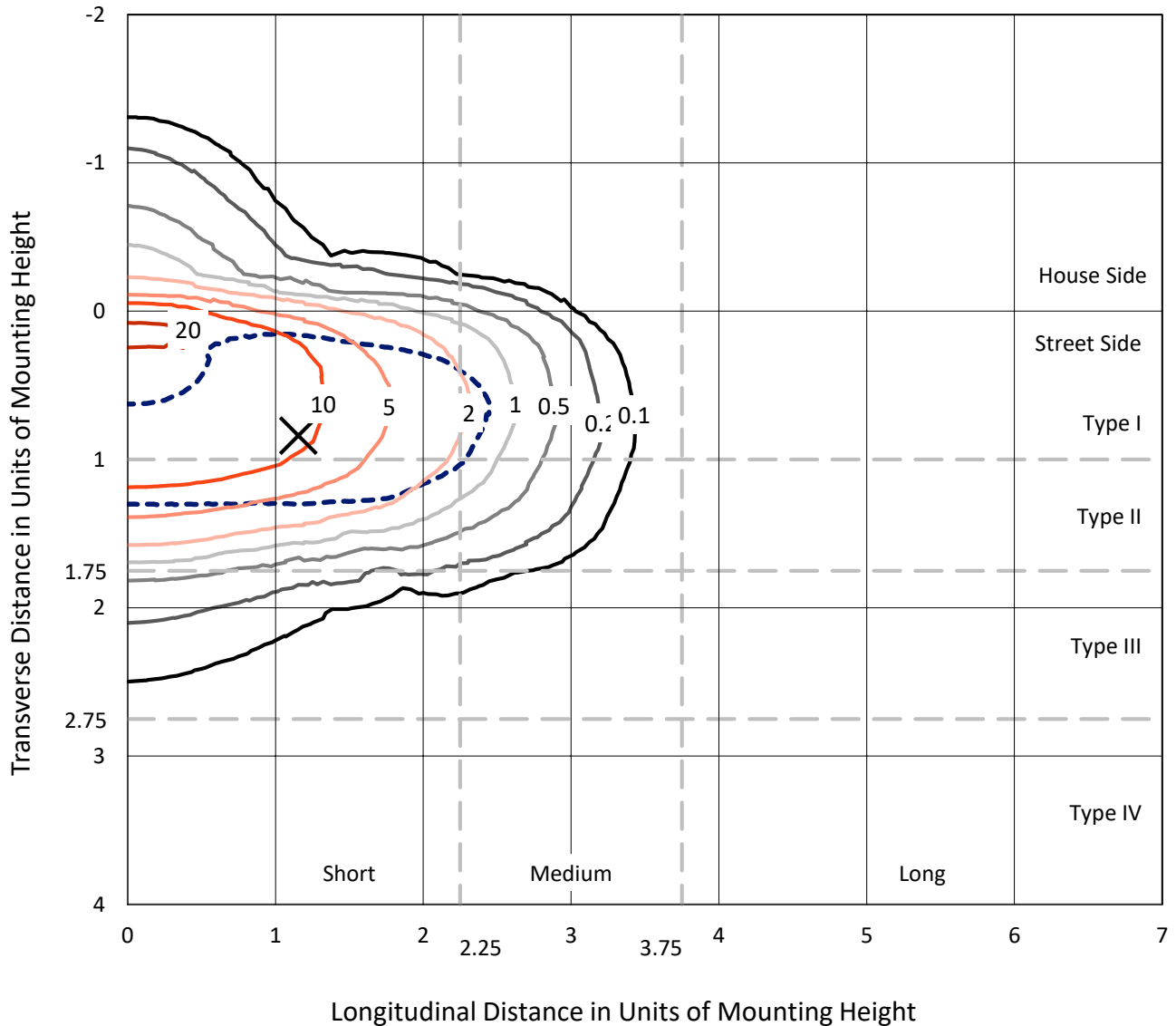
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

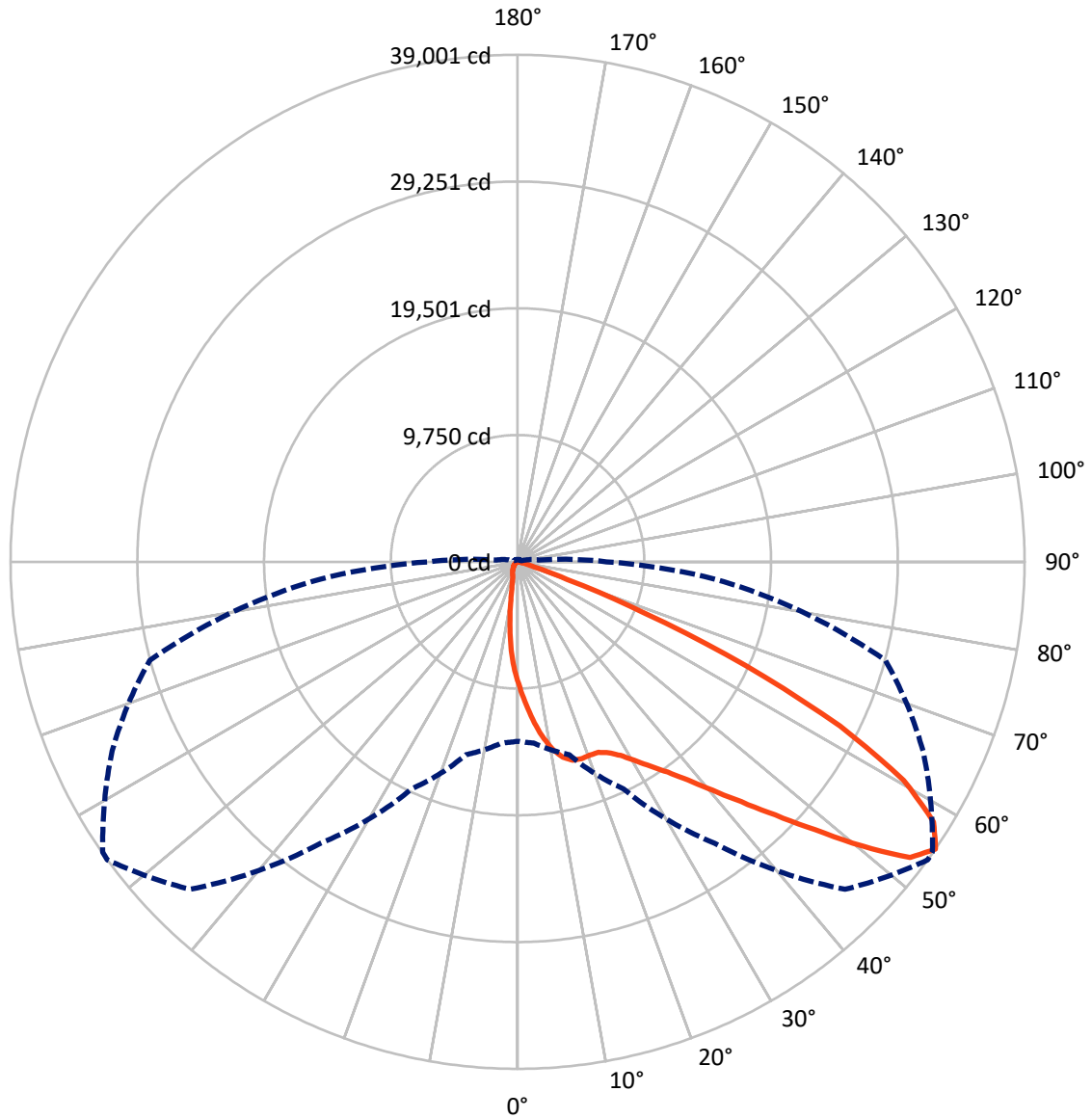
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2086.6	0.0	2086.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	39735.4	0.0	39735.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	41822.0	0.0	41822.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	862.5	2.1
10°-20°	2365.6	5.7
20°-30°	4038.8	9.7
30°-40°	6481.6	15.5
40°-50°	10357.6	24.8
50°-60°	11098.4	26.5
60°-70°	5698.2	13.6
70°-80°	863.1	2.1
80°-90°	56.2	0.1
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°	41822.0	100.0
0°-180°	41822.0	100.0

**Coefficient of Utilization**

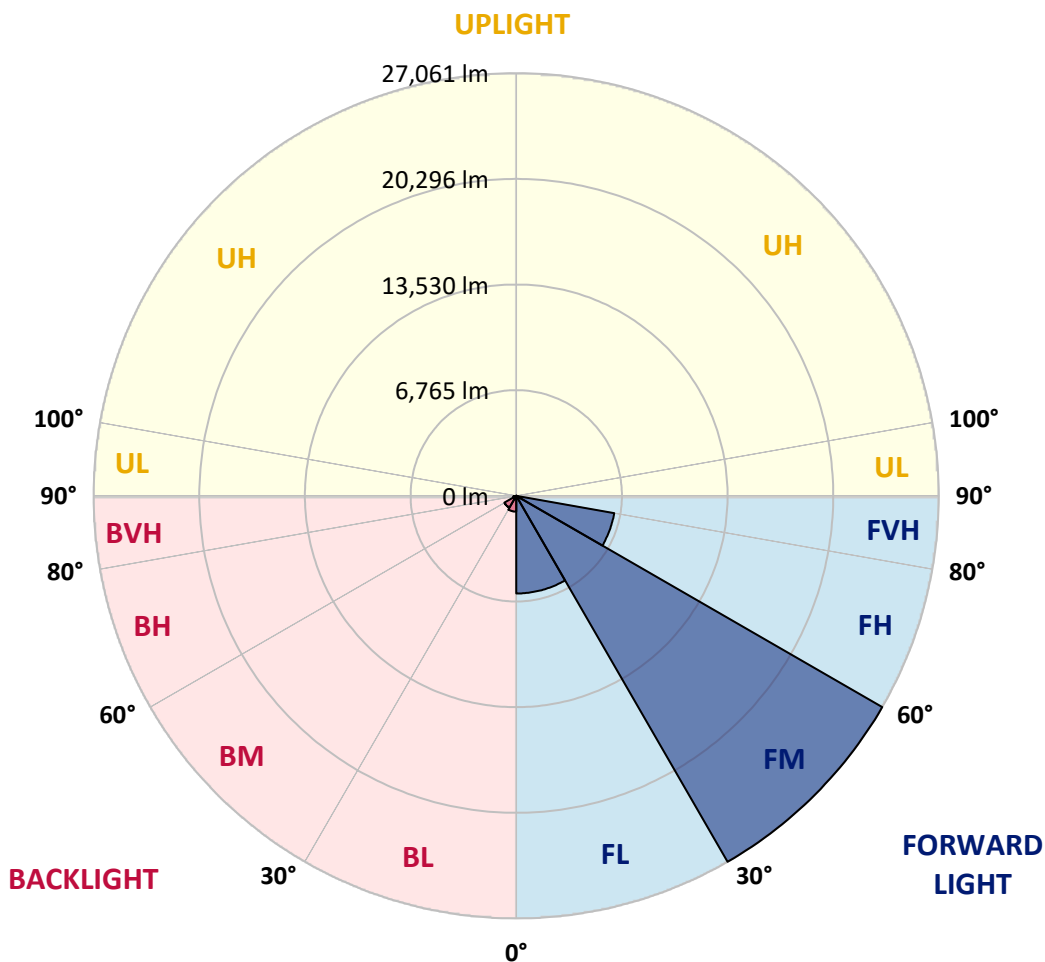


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6251.7	14.9			
FM (30°-60°)	27060.7	64.7			
FH (60°-80°)	6369.1	15.2			G3/7500
FVH (80°-90°)	53.9	0.1			G1/100
BL (0°-30°)	1015.2	2.4	B3/2500		
BM (30°-60°)	876.8	2.1	B1/1000		
BH (60°-80°)	192.3	0.5	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4
2.5°	11754.1	11578.9	11584.3	11504.9	11214.1	10986.5	10749.9	10693.9	10325.5	9939.0	9566.9
5°	13786.0	13657.7	13627.0	13473.5	13069.0	12640.9	12182.2	12075.6	11355.0	10563.9	9785.5
7.5°	14829.9	14831.7	14806.4	14750.4	14497.6	14082.2	13522.3	13410.3	12429.6	11243.0	10013.0
10°	14526.5	14595.1	14736.0	14922.0	15115.3	15062.9	14642.1	14540.9	13475.3	11961.8	10265.9
12.5°	13818.5	13827.5	13984.7	14289.9	14846.2	15416.9	15424.1	15389.8	14474.1	12713.2	10544.0
15°	13466.3	13500.6	13558.4	13755.3	14282.7	15196.5	15850.4	15899.1	15389.8	13511.5	10840.2
17.5°	13697.5	13746.2	13697.5	13721.0	14026.2	14848.0	15924.4	16049.0	16189.9	14300.7	11120.2
20°	14324.2	14369.4	14282.7	14186.9	14246.5	14746.8	15872.0	16040.0	16816.6	15001.5	11355.0
22.5°	15169.5	15187.5	15055.7	14898.5	14855.2	15090.0	15915.4	16088.8	17318.7	15635.4	11503.1
25°	16099.6	16115.9	15951.5	15770.9	15667.9	15763.7	16271.2	16401.2	17761.2	16240.5	11588.0
27.5°	17112.8	17127.3	16921.4	16699.2	16580.0	16583.6	16858.2	16997.2	18232.6	16930.4	11656.6
30°	18183.8	18176.6	17987.0	17678.1	17526.4	17522.8	17703.4	17844.3	18915.3	17815.4	11750.5
32.5°	19386.7	19372.3	19103.2	18720.3	18548.7	18574.0	18734.7	18816.0	19762.4	18758.2	11918.5
35°	20970.7	20929.1	20522.7	20047.7	19731.7	19722.6	19858.1	19923.1	20842.4	19899.6	12198.4
37.5°	23026.0	22988.1	22437.2	21747.3	21303.0	21136.8	21297.6	21380.6	22383.0	21364.4	12648.1
40°	25052.5	25014.5	24687.6	24055.5	23371.0	22971.8	23098.2	23186.7	24306.5	23141.6	13215.3
42.5°	26450.4	26482.9	26596.7	26649.0	26007.9	25169.8	25227.6	25319.8	26327.6	25041.6	13863.6
45°	26818.8	26889.3	27532.2	28794.7	29034.9	28381.1	27776.1	27826.6	28381.1	26941.6	14512.0
47.5°	25711.7	25841.7	27082.5	29430.4	31464.1	31926.5	30781.4	30714.6	30351.6	28478.6	14972.6
50°	23195.8	23315.0	24922.4	28395.5	32201.0	35311.1	34382.8	34185.9	32080.0	29397.9	15135.1
52.5°	19554.7	19699.2	21005.0	25137.3	30812.1	36821.0	37792.7	37628.3	33347.9	29470.2	15162.2
55°	13809.5	13984.7	15366.3	19265.7	26410.6	35620.0	39001.0	38952.2	34400.8	29278.7	15220.0
57.5°	7760.8	7887.3	9377.3	12350.1	19343.4	31025.2	37738.5	38061.8	35036.6	28946.4	15306.7
60°	3446.0	3480.4	4251.6	6148.0	11324.3	23710.5	34124.5	34670.0	34491.1	28502.1	15453.0
62.5°	1910.9	1882.0	1882.0	2555.6	4921.6	14678.2	27826.6	28727.9	32163.1	27976.5	15460.2
65°	1497.3	1470.2	1392.5	1403.3	1874.7	6514.6	19269.3	20871.3	27741.7	26435.9	14940.1
67.5°	1269.7	1246.2	1168.5	1137.8	1164.9	2149.3	10587.4	12250.8	21050.1	22431.8	12940.7
70°	1072.8	1056.6	1016.8	978.9	910.3	1062.0	4051.1	5181.7	12971.4	14922.0	8833.6
72.5°	863.3	856.1	870.5	838.0	755.0	708.0	1385.3	1677.9	5826.5	6659.1	3639.3
75°	744.1	740.5	747.7	715.2	621.3	493.1	704.4	769.4	1643.6	1629.1	736.9
77.5°	484.0	489.5	619.5	605.0	534.6	328.7	364.8	393.7	498.5	373.9	224.0
80°	308.8	305.2	314.3	502.1	480.4	251.0	182.4	191.4	240.2	184.2	108.4
82.5°	187.8	184.2	205.9	234.8	242.0	175.2	112.0	113.8	149.9	119.2	57.8
85°	16.3	21.7	124.6	115.6	83.1	54.2	54.2	57.8	79.5	70.4	32.5
87.5°	0.0	0.0	21.7	32.5	18.1	19.9	19.9	21.7	30.7	30.7	16.3
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°	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4	9366.4
2.5°	9373.7	9185.8	8806.6	8441.7	8132.9	7834.9	7495.3	7159.4	7002.3	6939.0	6874.0
5°	9389.9	9003.4	8221.4	7433.9	6617.6	5882.5	5255.8	4612.8	4291.3	4150.4	4085.4
7.5°	9411.6	8822.8	7558.5	6236.5	4921.6	3924.7	3054.1	2494.2	2252.2	2214.3	2120.4
10°	9415.2	8604.3	6789.1	4914.4	3299.7	2366.0	1820.6	1531.6	1425.0	1407.0	1376.3
12.5°	9422.4	8346.0	5934.9	3639.3	2199.8	1582.1	1316.6	1220.9	1192.0	1190.2	1190.2
15°	9444.1	8075.1	5048.1	2622.5	1580.3	1253.4	1155.9	1118.0	1107.1	1112.6	1110.8
17.5°	9444.1	7755.4	4177.5	1954.2	1276.9	1127.0	1072.8	1047.5	1043.9	1049.3	1051.2
20°	9375.5	7367.1	3379.2	1520.7	1132.4	1045.7	997.0	973.5	964.5	968.1	969.9
22.5°	9211.1	6890.3	2729.0	1258.9	1036.7	971.7	919.3	883.2	868.7	870.5	870.5
25°	8954.7	6325.0	2134.8	1089.1	959.0	892.2	830.8	789.3	780.2	778.4	782.0
27.5°	8625.9	5700.1	1699.5	959.0	866.9	803.7	742.3	708.0	700.8	702.6	704.4
30°	8302.7	5051.7	1340.1	848.9	764.0	704.4	657.4	641.2	641.2	646.6	648.4
32.5°	8006.5	4428.6	1060.2	753.1	671.9	617.7	590.6	588.8	597.8	601.4	603.2
35°	7751.8	3852.4	877.8	679.1	599.6	552.7	543.6	550.9	561.7	568.9	570.7
37.5°	7571.2	3337.7	767.6	617.7	543.6	505.7	503.9	518.4	532.8	549.1	552.7
40°	7495.3	2902.4	691.7	563.5	498.5	469.6	464.2	484.0	511.1	534.6	538.2
42.5°	7432.1	2546.6	626.7	511.1	462.4	420.8	419.0	444.3	476.8	500.3	505.7
45°	7377.9	2261.2	567.1	455.1	415.4	361.2	366.6	399.1	424.4	449.7	455.1
47.5°	7266.0	2026.4	502.1	395.5	343.2	308.8	319.7	348.6	368.4	406.4	411.8
50°	7065.5	1835.0	435.3	323.3	279.9	267.3	283.6	303.4	328.7	361.2	364.8
52.5°	6930.0	1690.5	377.5	270.9	231.2	234.8	251.0	258.3	272.7	285.4	281.8
55°	6852.4	1611.0	330.5	234.8	196.9	207.7	211.3	202.3	195.1	182.4	177.0
57.5°	6843.3	1538.8	294.4	204.1	173.4	178.8	166.2	135.5	110.2	95.7	92.1
60°	6828.9	1450.3	265.5	171.6	153.5	146.3	119.2	74.1	52.4	48.8	48.8
62.5°	6671.7	1313.0	243.8	144.5	130.0	110.2	68.6	34.3	28.9	30.7	30.7
65°	6171.5	1121.6	222.2	117.4	102.9	79.5	34.3	19.9	10.8	12.6	12.6
67.5°	5246.7	894.0	198.7	90.3	77.7	50.6	19.9	9.0	0.0	0.0	0.0
70°	3512.9	554.5	168.0	63.2	50.6	30.7	14.4	1.8	0.0	0.0	0.0
72.5°	1347.4	299.8	135.5	37.9	32.5	21.7	9.0	0.0	0.0	0.0	0.0
75°	303.4	196.9	93.9	27.1	23.5	14.4	3.6	0.0	0.0	0.0	0.0
77.5°	115.6	142.7	54.2	18.1	16.3	9.0	0.0	0.0	0.0	0.0	0.0
80°	56.0	84.9	25.3	10.8	9.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.9	32.5	10.8	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	16.3	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	5.4	1.8	1.8	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)