

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: P534415

Luminaire Tested: **GLAN-SA9D-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-830-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41572 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

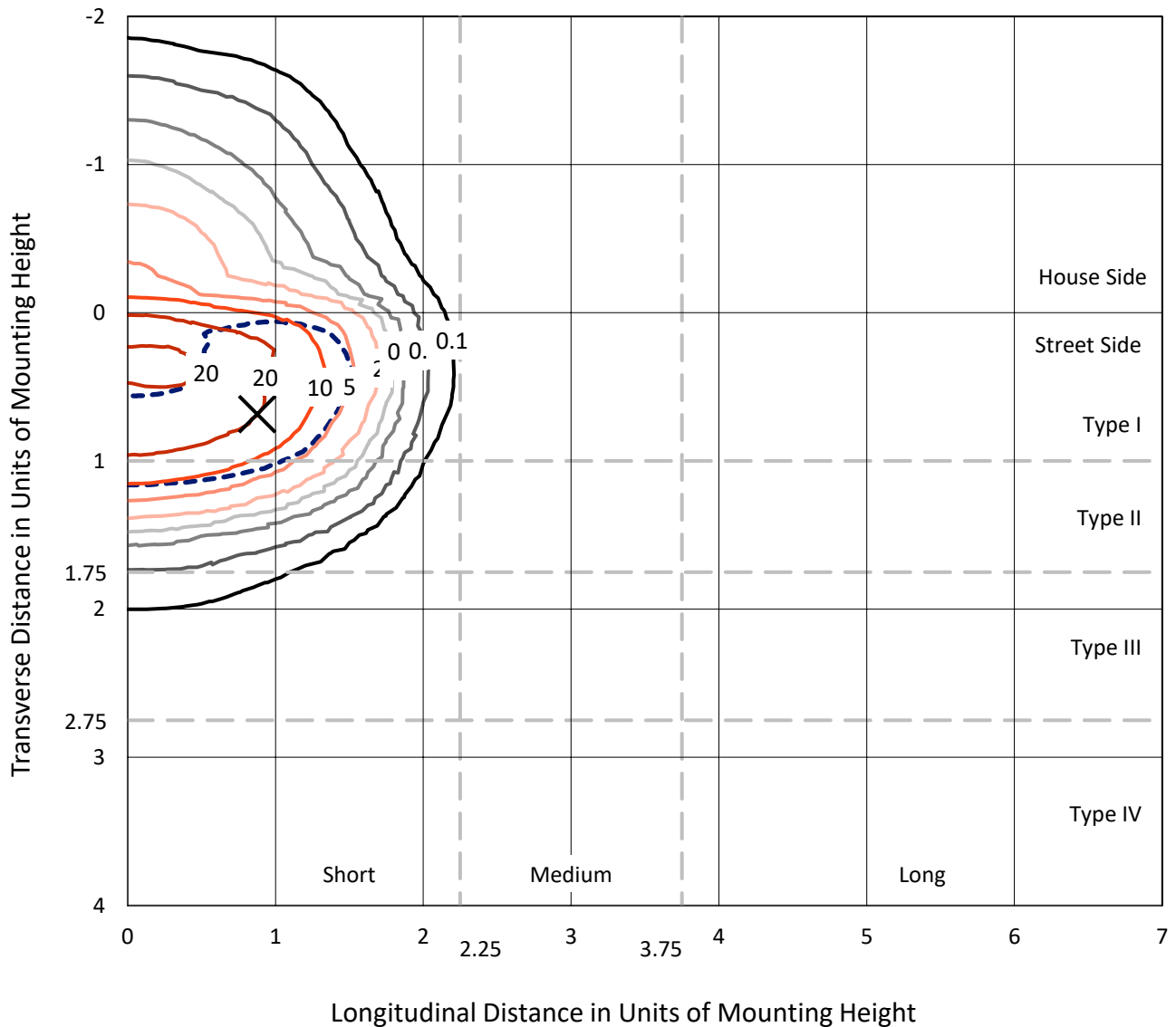
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

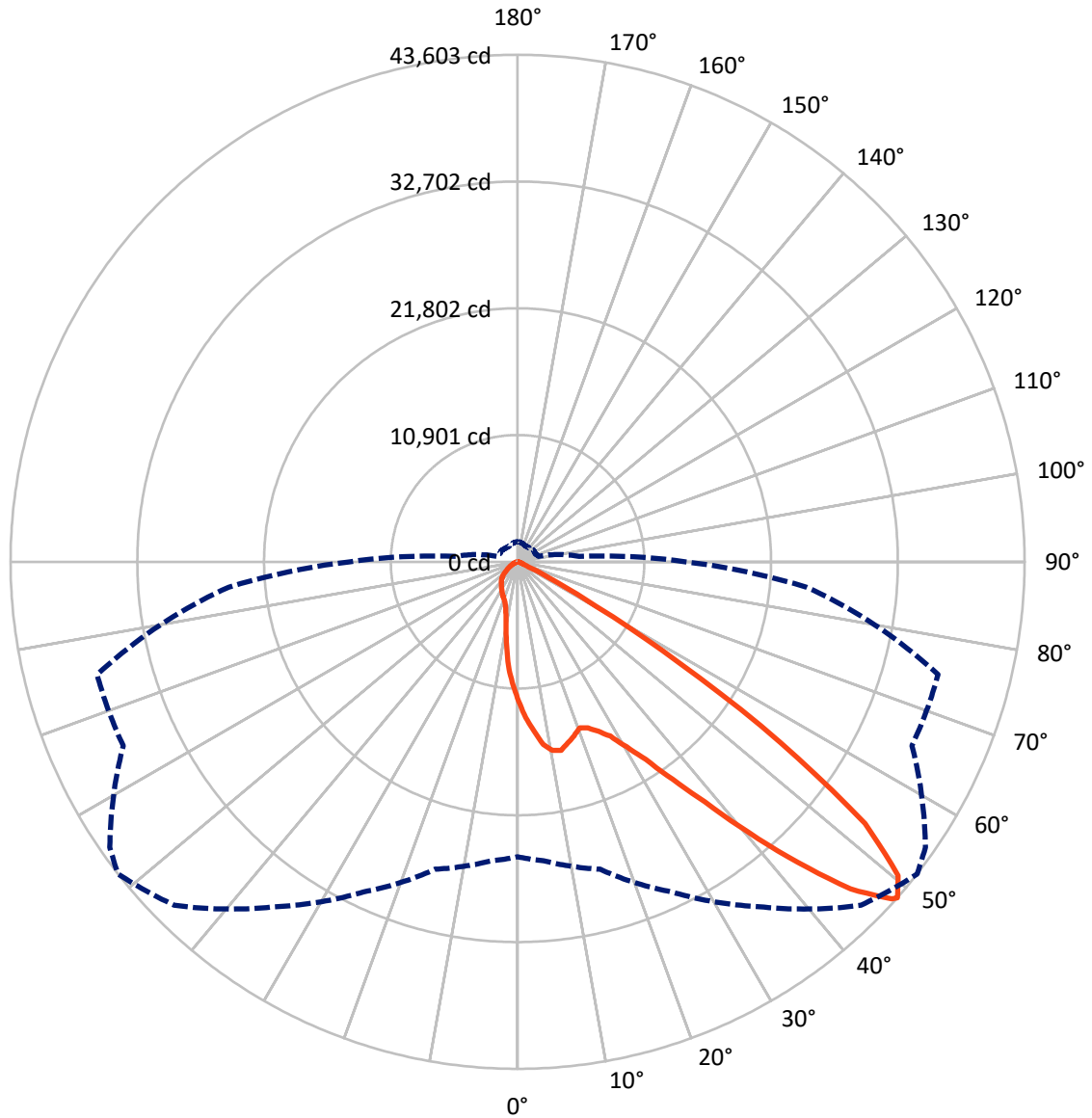
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5061.7	0.0	5061.7
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	36510.3	0.0	36510.3
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	41572.0	0.0	41572.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1098.8	2.6
10°-20°	2871.6	6.9
20°-30°	4903.1	11.8
30°-40°	9029.0	21.7
40°-50°	14022.0	33.7
50°-60°	8438.9	20.3
60°-70°	976.0	2.3
70°-80°	188.9	0.5
80°-90°	43.7	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°	41572.0	100.0
0°-180°	41572.0	100.0

**Coefficient of Utilization**

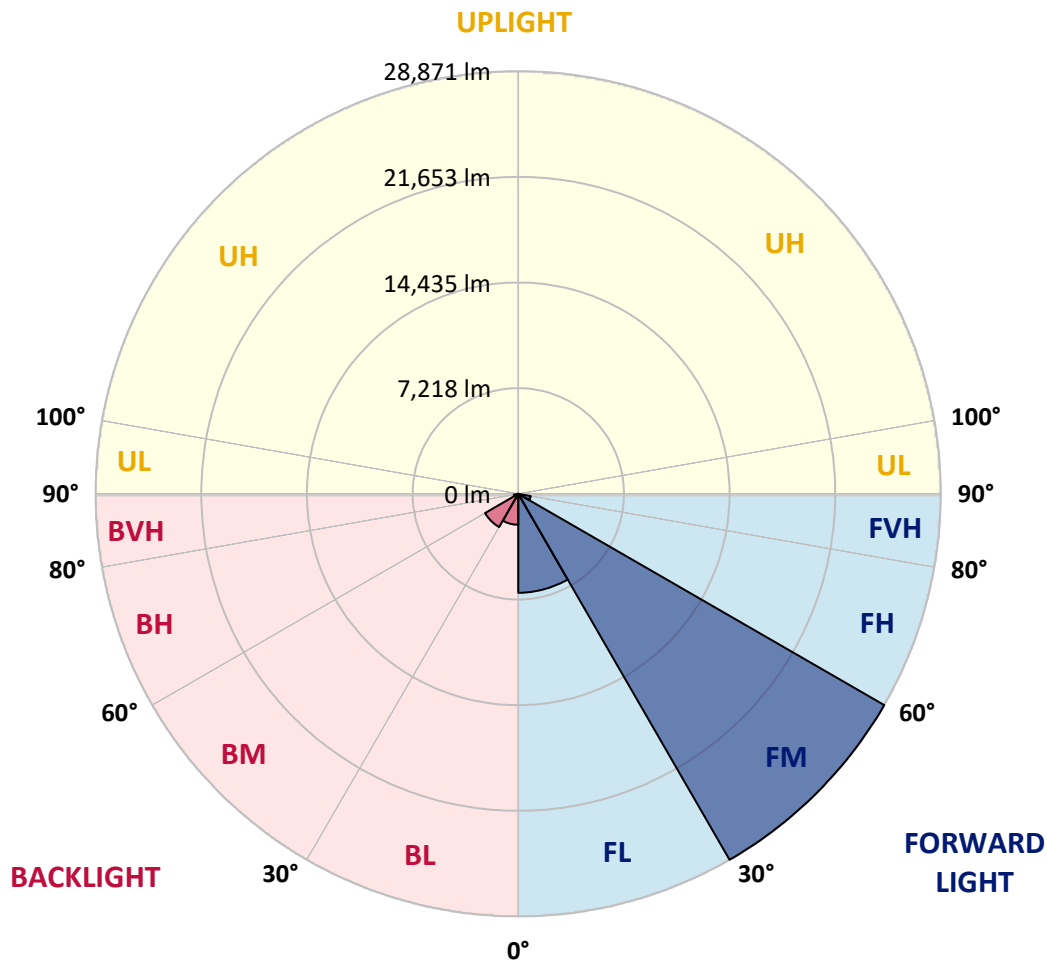


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6759.1	16.3			
FM (30°-60°)	28870.9	69.4			
FH (60°-80°)	859.5	2.1			G1/1800
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	2114.5	5.1	B3/2500		
BM (30°-60°)	2618.9	6.3	B3/5000		
BH (60°-80°)	305.5	0.7	B1/500		G1/500
BVH (80°-90°)	22.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3
2.5°	14550.6	14217.3	14247.6	14029.4	13902.2	13696.1	13417.3	13362.8	13059.8	12647.7	12229.5
5°	15859.6	15780.8	15883.8	15568.7	15580.8	15241.5	14587.0	14599.1	13902.2	13229.5	12581.0
7.5°	15944.4	15762.6	15865.7	16144.4	16308.1	16247.5	15877.8	15556.6	14896.0	13908.2	12962.8
10°	14277.9	14623.3	14732.4	15193.0	15847.5	16538.4	16495.9	16514.1	15962.6	14671.8	13290.1
12.5°	13278.0	13047.7	13417.3	13696.1	14683.9	16023.2	16635.3	16768.6	16811.1	15411.1	13617.3
15°	12823.4	12823.4	12884.0	12962.8	13677.9	14914.2	16162.6	16550.5	17465.6	16380.8	14132.4
17.5°	13108.3	13096.1	13181.0	13017.4	13284.0	14235.5	15726.3	16168.7	18198.9	17332.2	14538.5
20°	13974.9	14017.3	13962.8	13490.1	13508.2	14223.3	15241.5	15938.4	18695.8	18156.4	15077.8
22.5°	15180.9	15205.1	14896.0	14380.9	14229.4	14580.9	15520.2	16053.5	19095.8	19144.2	15241.5
25°	16574.7	16477.7	16417.1	15689.9	15229.3	15532.4	16150.5	16459.6	19344.2	19992.7	15708.1
27.5°	18507.9	18314.0	17944.3	17295.9	16956.5	16526.2	16968.6	17477.7	20053.3	21180.5	16217.2
30°	21362.3	21192.6	20471.4	19635.1	18744.3	18320.1	18459.4	18738.2	21332.0	22556.2	16889.8
32.5°	25659.0	25301.4	24259.1	22665.2	21453.2	20283.6	20247.2	20544.2	22477.4	24459.1	17689.8
35°	30392.0	30282.9	28749.7	27107.4	24762.1	22956.1	22986.4	23144.0	24671.2	26955.9	18738.2
37.5°	33537.3	34137.2	33161.5	31398.0	29428.4	26846.8	26192.3	26246.8	27683.1	29913.3	20629.0
40°	35967.4	35458.4	35573.5	35161.4	33816.0	32058.6	30610.2	30325.4	31167.7	33185.8	22507.7
42.5°	34906.9	34931.1	35640.2	36615.9	36949.2	36821.9	35343.2	34803.9	34149.4	35864.4	24295.4
45°	31913.1	32537.3	33458.5	36040.2	38306.7	40433.8	40142.9	39246.0	36209.8	37985.5	25325.7
47.5°	27137.7	27113.4	28622.4	31979.8	37015.8	41997.4	43318.5	42688.2	37670.4	37749.1	25113.6
48°	25374.2	25810.5	27368.0	31319.2	36197.7	41767.1	43603.3	42809.4	37421.9	37434.0	24931.8
50°	18756.4	18677.6	20616.9	25465.1	32331.3	39246.0	42403.4	43021.5	37415.8	35840.2	23659.1
52.5°	9908.5	10247.8	11659.9	16011.1	22859.2	32119.2	37403.7	38367.3	36094.7	33234.3	21828.9
55°	4211.9	3805.8	4890.6	7229.8	12859.8	21459.3	27440.7	29586.0	30519.3	29410.3	19095.8
57.5°	1502.9	1642.3	1890.8	2721.0	5405.7	11744.7	16362.6	18029.2	21144.1	21580.5	13011.3
60°	963.6	981.8	1060.5	1248.4	2030.2	4527.0	7763.1	9090.3	10502.4	10841.7	6072.3
62.5°	745.4	751.5	787.8	818.1	963.6	1757.5	2915.0	3454.3	3587.7	3084.7	1593.8
65°	624.2	630.3	642.4	642.4	684.8	824.2	1018.1	1121.1	1090.8	1078.7	903.0
67.5°	478.8	490.9	515.1	515.1	539.4	503.0	563.6	600.0	678.7	824.2	769.6
70°	375.7	381.8	400.0	412.1	412.1	363.6	406.0	442.4	496.9	612.1	606.0
72.5°	290.9	303.0	315.1	315.1	297.0	248.5	290.9	321.2	357.6	424.2	412.1
75°	224.2	224.2	230.3	187.9	145.4	127.3	175.7	212.1	266.6	278.8	230.3
77.5°	60.6	66.7	60.6	54.5	60.6	90.9	115.1	133.3	169.7	169.7	151.5
80°	0.0	6.1	18.2	36.4	60.6	84.8	103.0	115.1	133.3	145.4	139.4
82.5°	0.0	6.1	18.2	36.4	54.5	66.7	90.9	97.0	109.1	127.3	127.3
85°	0.0	6.1	12.1	24.2	36.4	42.4	42.4	36.4	36.4	30.3	24.2
87.5°	0.0	0.0	6.1	12.1	12.1	18.2	18.2	18.2	18.2	18.2	18.2
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°	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3	12005.3
2.5°	12065.9	11878.0	11593.2	11144.8	10714.5	10435.7	10169.1	9872.1	9708.5	9696.4	9605.5
5°	12211.4	11787.1	11108.4	10338.7	9514.6	8805.5	8090.4	7623.8	7205.6	6975.3	6932.9
7.5°	12290.1	11738.7	10641.8	9350.9	7945.0	6787.5	5987.5	5399.7	5169.4	4999.7	4993.6
10°	12453.8	11653.8	9944.8	8041.9	6302.6	5133.0	4581.5	4314.9	4187.6	4139.1	4066.4
12.5°	12575.0	11496.2	9229.7	6696.5	4981.5	4254.3	4011.9	3951.3	3957.3	3981.6	3951.3
15°	12744.7	11356.9	8266.1	5496.6	4181.6	3830.1	3830.1	3842.2	3927.0	3939.1	3933.1
17.5°	12732.5	11084.1	7272.3	4527.0	3696.7	3648.3	3666.4	3781.6	3836.1	3854.3	3811.9
20°	12878.0	10829.6	6248.1	3866.4	3424.0	3496.7	3618.0	3648.3	3714.9	3727.0	3678.6
22.5°	12835.6	10193.3	5296.6	3345.2	3218.0	3357.4	3478.6	3514.9	3496.7	3460.4	3454.3
25°	12756.8	9647.9	4424.0	2999.8	3066.5	3218.0	3333.1	3266.5	3230.1	3236.2	3242.2
27.5°	12617.4	8957.0	3702.8	2757.4	2860.4	3084.7	3078.6	3054.4	3090.7	3060.4	3090.7
30°	12593.1	8266.1	3108.9	2539.2	2708.9	2872.5	2884.7	2927.1	2969.5	2915.0	2969.5
32.5°	12629.5	7508.6	2684.7	2405.9	2618.0	2624.1	2757.4	2799.8	2769.5	2648.3	2660.4
35°	12908.3	6926.8	2375.6	2333.2	2472.6	2478.6	2605.9	2551.4	2418.0	2345.3	2387.7
37.5°	13496.1	6442.0	2230.2	2266.5	2278.6	2357.4	2363.5	2254.4	2266.5	2260.5	2284.7
40°	14247.6	6072.3	2127.1	2205.9	2193.8	2248.3	2030.2	2090.8	2145.3	2163.5	2175.6
42.5°	14762.7	5805.7	2060.5	2109.0	2084.7	1987.8	1866.5	1927.2	1969.6	2036.2	2048.4
45°	14993.0	5593.6	1981.7	1939.3	1939.3	1763.5	1715.0	1727.2	1824.1	1896.9	1884.7
47.5°	14617.3	5387.5	1842.3	1715.0	1757.5	1612.0	1557.5	1557.5	1660.5	1751.4	1733.2
48°	14471.8	5302.7	1848.4	1666.6	1696.9	1587.8	1533.2	1521.1	1636.3	1721.1	1721.1
50°	13750.6	4987.6	1690.8	1533.2	1472.6	1460.5	1424.2	1436.3	1509.0	1587.8	1587.8
52.5°	12344.7	4308.8	1430.2	1315.1	1206.0	1278.7	1296.9	1272.6	1309.0	1381.7	1375.7
55°	10302.4	3308.9	1145.4	1090.8	1006.0	1084.8	1121.1	1090.8	1054.5	1109.0	1109.0
57.5°	6599.6	1781.7	915.1	927.2	842.4	921.2	951.5	878.7	812.1	854.5	848.4
60°	2975.6	1066.6	751.5	733.3	678.7	769.6	818.1	733.3	642.4	672.7	703.0
62.5°	1115.1	757.5	569.7	557.5	545.4	630.3	654.5	587.8	496.9	515.1	521.2
65°	818.1	666.6	454.5	412.1	436.3	496.9	484.8	418.2	357.6	357.6	369.7
67.5°	696.9	581.8	369.7	321.2	321.2	327.3	303.0	266.6	248.5	260.6	272.7
70°	545.4	460.6	290.9	248.5	224.2	200.0	175.7	169.7	151.5	169.7	163.6
72.5°	351.5	309.1	224.2	187.9	169.7	139.4	115.1	109.1	90.9	84.8	84.8
75°	187.9	187.9	175.7	151.5	133.3	109.1	90.9	72.7	48.5	36.4	36.4
77.5°	133.3	145.4	157.6	145.4	121.2	90.9	72.7	48.5	24.2	12.1	12.1
80°	127.3	145.4	157.6	139.4	121.2	90.9	66.7	36.4	18.2	6.1	6.1
82.5°	115.1	133.3	145.4	127.3	109.1	78.8	60.6	36.4	18.2	6.1	6.1
85°	24.2	30.3	36.4	36.4	42.4	54.5	42.4	30.3	12.1	6.1	6.1
87.5°	18.2	18.2	18.2	18.2	18.2	18.2	12.1	12.1	6.1	6.1	6.1
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)