

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: P480787

Luminaire Tested: **IFLD-S-SA6D-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480787  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

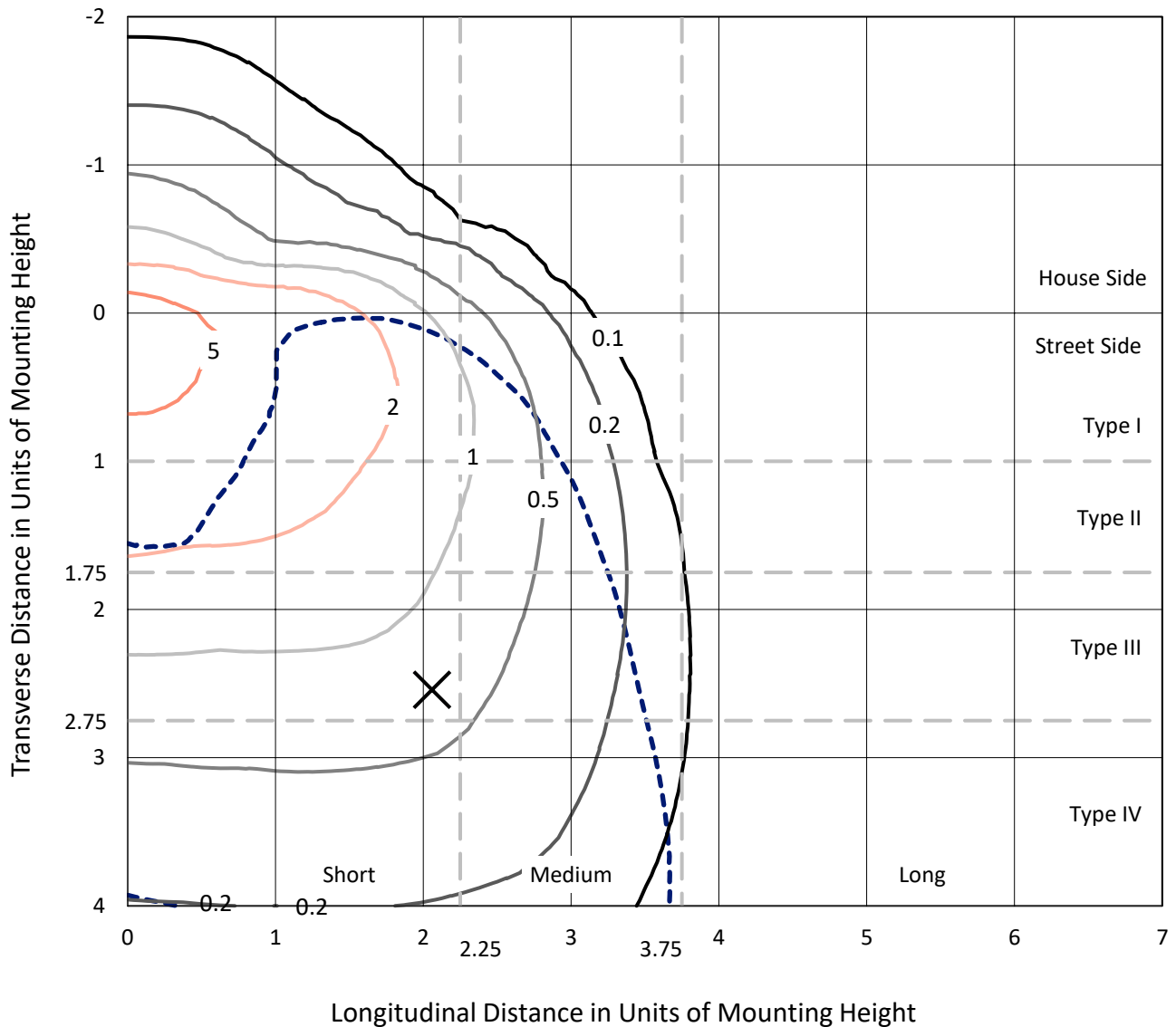
Lumens per Lamp: N/A  
Luminaire Lumens: 36986 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
Input Voltage (V): 120  
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

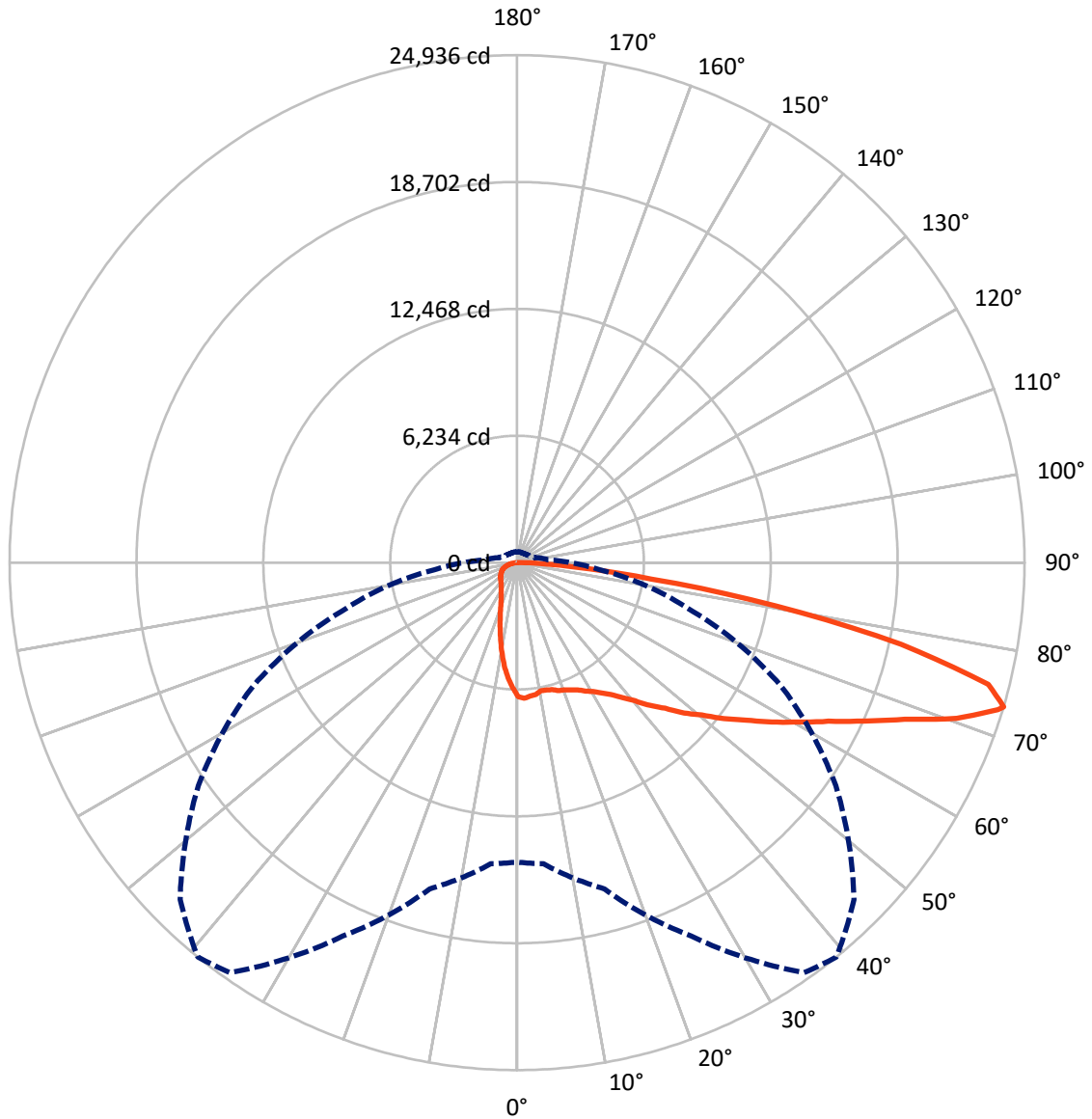
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5199.2	0.0	5199.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	31786.8	0.0	31786.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	36986.0	0.0	36986.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.5	1.5
10°-20°	1452.9	3.9
20°-30°	2220.2	6.0
30°-40°	3237.1	8.8
40°-50°	4891.6	13.2
50°-60°	7083.3	19.2
60°-70°	8999.6	24.3
70°-80°	7295.6	19.7
80°-90°	1234.4	3.3
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°	36986.0	100.0
0°-180°	36986.0	100.0

**Coefficient of Utilization**



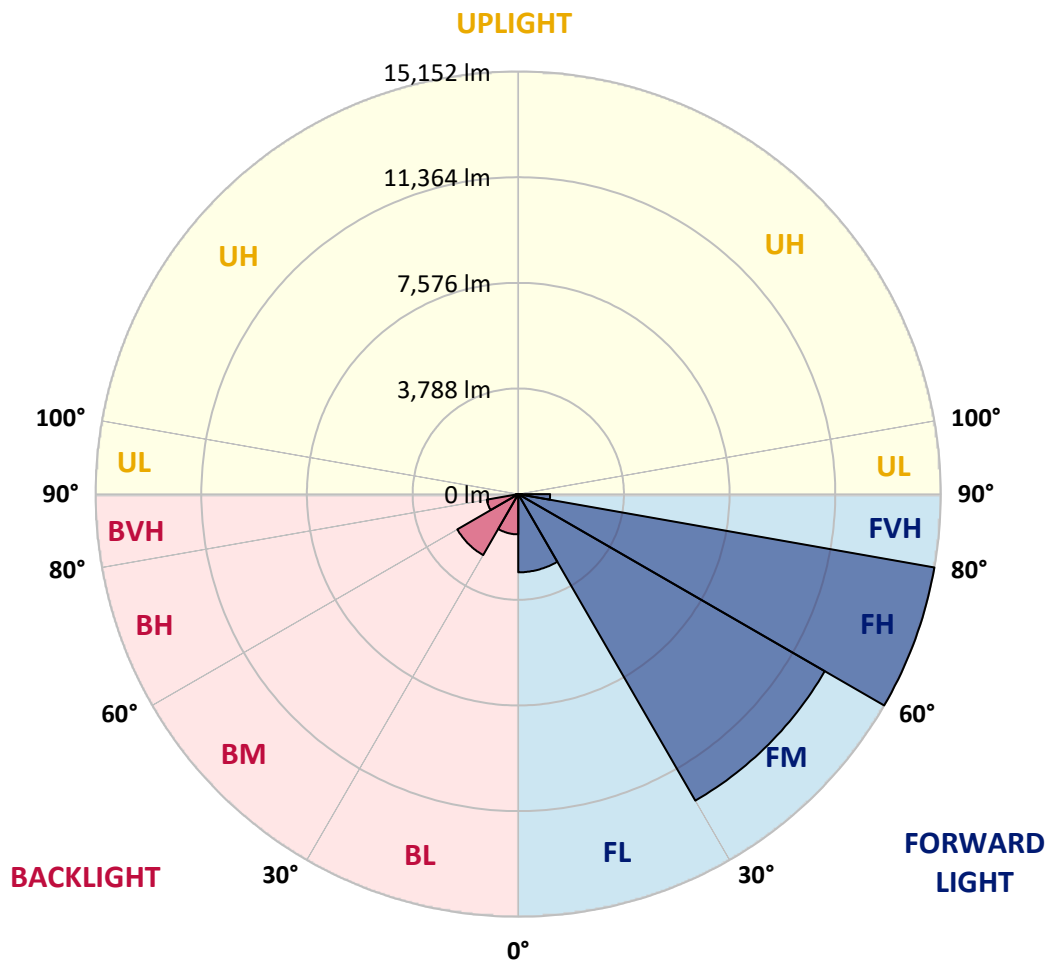
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2802.7	7.6			
FM (30°-60°)	12688.6	34.3			
FH (60°-80°)	15151.7	41.0			G5
FVH (80°-90°)	1143.8	3.1			G5
BL (0°-30°)	1441.9	3.9	B3/2500		
BM (30°-60°)	2523.3	6.8	B3/5000		
BH (60°-80°)	1143.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	90.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7
2.5°	6741.0	6670.6	6683.1	6658.2	6683.1	6674.8	6662.4	6600.3	6662.4	6600.3	6583.7
5°	6650.0	6650.0	6691.3	6629.3	6637.5	6596.2	6637.5	6592.0	6550.6	6447.2	6418.2
7.5°	6621.0	6616.8	6621.0	6534.1	6575.5	6550.6	6509.3	6459.6	6376.8	6310.6	6215.4
10°	6422.4	6463.7	6418.2	6443.0	6476.2	6401.7	6397.5	6385.1	6347.9	6261.0	6203.0
12.5°	6314.8	6385.1	6409.9	6389.3	6418.2	6426.5	6401.7	6385.1	6339.6	6281.7	6116.1
15°	6360.3	6277.5	6347.9	6484.4	6455.5	6476.2	6480.3	6463.7	6443.0	6335.5	6227.9
17.5°	6372.7	6323.0	6472.0	6501.0	6538.2	6612.7	6563.1	6558.9	6480.3	6405.8	6248.6
20°	6401.7	6381.0	6501.0	6654.1	6658.2	6670.6	6695.5	6633.4	6592.0	6463.7	6223.7
22.5°	6509.3	6579.6	6691.3	6757.5	6794.8	6803.1	6803.1	6678.9	6633.4	6529.9	6339.6
25°	6832.0	6757.5	6914.8	6993.4	6939.6	6927.2	6898.2	6786.5	6736.9	6645.8	6393.4
27.5°	7067.9	7063.8	7154.8	7262.4	7117.6	7146.5	7043.1	7010.0	6898.2	6848.6	6488.6
30°	7390.7	7481.7	7477.6	7510.7	7320.3	7353.4	7221.0	7158.9	7096.9	7125.8	6770.0
32.5°	7804.5	7771.4	7825.2	7800.3	7610.0	7639.0	7481.7	7386.5	7407.2	7494.1	7154.8
35°	8069.3	8036.2	8056.9	8056.9	7999.0	7965.9	7899.7	7775.5	7874.8	8036.2	7585.2
37.5°	8354.9	8396.2	8516.2	8491.4	8416.9	8416.9	8408.7	8321.8	8450.0	8847.3	8272.1
40°	8607.3	8719.0	8793.5	8843.2	8930.1	8930.1	9000.4	8950.7	9182.5	9819.7	9112.1
42.5°	8872.1	8876.3	9281.8	9319.0	9513.5	9596.3	9650.1	9691.5	10126.0	10837.7	10010.1
45°	9211.4	9232.1	9588.0	9873.5	10175.6	10204.6	10407.4	10543.9	11077.7	11950.9	10986.7
47.5°	9658.4	9633.5	10014.2	10469.4	10846.0	11044.6	11288.8	11437.8	12095.7	13159.2	12054.3
50°	10246.0	10171.5	10390.8	11106.7	11549.5	11768.8	12203.3	12451.6	13221.3	14313.7	12786.8
52.5°	10961.9	10837.7	11011.5	11793.6	12290.2	12733.0	13146.8	13424.0	14226.8	15207.6	13328.9
55°	11719.1	11462.6	11512.2	12521.9	13237.8	13655.8	14222.7	14512.4	15331.7	16010.4	13871.0
57.5°	12468.1	12306.8	12207.4	13221.3	14367.5	14768.9	15290.3	15666.9	16362.1	16722.1	14330.3
60°	13097.1	13055.8	12894.4	14305.5	15563.5	15906.9	16453.1	16684.9	17210.4	17380.1	14338.6
62.5°	13614.4	13473.7	13730.3	15178.6	16780.1	17169.0	17769.1	17789.8	18162.2	17789.8	13916.5
65°	14019.9	14028.2	14437.9	16233.8	18187.0	18762.2	19246.4	19192.6	18952.6	17545.6	12919.2
67.5°	14388.2	14545.5	15145.5	17392.5	19995.4	20537.5	21075.4	20363.7	19167.8	16403.5	10970.1
70°	14677.9	14835.1	16101.4	18803.6	22126.5	22921.0	23041.0	20827.1	18178.7	13895.8	8276.2
72.5°	14644.8	14930.3	16643.5	19929.2	24017.6	24704.6	23736.2	19523.6	15145.5	9687.3	4829.2
73°	14715.1	14855.8	16598.0	20243.7	24592.8	24936.3	23413.5	19114.0	14284.8	8690.0	4084.3
75°	13357.8	13833.7	15774.5	19730.5	23976.2	23914.2	21559.6	15927.6	10154.9	4564.3	1978.0
77.5°	9881.8	10183.9	12430.9	16225.6	19680.9	19283.6	16262.8	10179.8	4820.9	1692.5	1067.6
80°	4829.2	5065.1	6587.9	9368.7	12869.5	12902.6	10092.9	5296.8	2064.9	955.9	728.3
82.5°	2412.5	2553.2	3165.7	4117.4	6331.3	6633.4	5118.8	3012.5	1278.7	542.1	413.8
85°	1576.6	1675.9	1949.1	2015.3	2685.6	2834.6	2383.6	2350.4	831.8	293.8	335.2
87.5°	1046.9	1063.5	1195.9	1018.0	1075.9	1034.5	1150.4	1481.4	244.1	124.1	91.0
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°	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7	6583.7
2.5°	6563.1	6505.1	6443.0	6356.1	6294.1	6198.9	6112.0	6074.8	6066.5	6070.6	6029.2
5°	6393.4	6310.6	6186.5	6008.5	5905.1	5747.8	5615.4	5545.1	5470.6	5483.0	5449.9
7.5°	6157.5	6066.5	5876.1	5669.2	5412.7	5189.2	5065.1	4891.3	4791.9	4717.5	4758.8
10°	6083.0	5925.8	5640.3	5354.7	4957.5	4663.7	4378.1	4179.5	4042.9	3910.5	3968.5
12.5°	6045.8	5888.5	5491.3	5069.2	4556.1	4109.1	3707.8	3463.6	3269.1	3153.2	3198.8
15°	6012.7	5818.2	5350.6	4754.7	4179.5	3591.9	3140.8	2818.1	2631.8	2520.1	2532.5
17.5°	6058.2	5780.9	5143.7	4448.5	3765.7	3136.7	2636.0	2300.8	2110.4	2040.1	2023.5
20°	6012.7	5739.6	4940.9	4142.3	3351.9	2702.2	2222.2	1944.9	1812.5	1754.6	1742.1
22.5°	6029.2	5640.3	4729.9	3802.9	2967.0	2338.0	1944.9	1733.9	1630.4	1601.5	1609.7
25°	6107.9	5582.3	4518.8	3430.5	2586.3	2069.1	1767.0	1605.6	1531.1	1502.1	1510.4
27.5°	6165.8	5632.0	4328.5	3078.8	2263.5	1829.0	1618.0	1510.4	1460.8	1440.1	1435.9
30°	6310.6	5660.9	4142.3	2764.3	1998.7	1671.8	1514.6	1427.6	1394.5	1382.1	1378.0
32.5°	6525.8	5714.7	3927.1	2474.6	1804.2	1522.8	1431.8	1357.3	1349.0	1336.6	1340.7
35°	6877.5	5901.0	3687.1	2226.3	1618.0	1423.5	1344.9	1295.2	1295.2	1295.2	1307.6
37.5°	7382.4	6161.7	3471.9	1990.4	1498.0	1336.6	1270.4	1253.8	1245.6	1258.0	1266.3
40°	8032.1	6476.2	3298.1	1804.2	1394.5	1278.7	1220.7	1212.5	1208.3	1204.2	1212.5
42.5°	8743.8	6877.5	3149.1	1659.4	1320.1	1216.6	1175.2	1166.9	1150.4	1158.7	1171.1
45°	9451.5	7374.1	3016.7	1543.5	1270.4	1183.5	1125.6	1121.4	1113.2	1109.0	1129.7
47.5°	10237.7	7862.4	2975.3	1473.2	1233.2	1133.8	1092.5	1088.3	1063.5	1059.4	1075.9
50°	10850.1	8222.4	3020.8	1440.1	1179.4	1096.6	1067.6	1046.9	1026.3	1005.6	1005.6
52.5°	11272.2	8470.7	3053.9	1415.2	1150.4	1046.9	1009.7	1001.4	980.7	960.0	951.8
55°	11652.9	8619.7	3062.2	1419.4	1121.4	989.0	964.2	960.0	947.6	914.5	906.2
57.5°	11781.2	8557.6	2896.7	1382.1	1104.9	951.8	918.7	926.9	910.4	881.4	877.3
60°	11768.8	8127.3	2520.1	1332.5	1067.6	910.4	869.0	893.8	893.8	860.7	856.6
62.5°	11052.9	7134.1	2060.8	1237.3	1026.3	869.0	823.5	860.7	873.1	852.5	848.3
65°	9567.3	5809.9	1721.5	1142.1	964.2	823.5	778.0	819.3	840.0	831.8	827.6
67.5°	7916.2	4444.3	1431.8	1018.0	885.6	761.4	724.2	753.1	765.6	769.7	773.8
70°	5594.7	2958.8	1195.9	881.4	778.0	695.2	653.8	658.0	653.8	666.2	666.2
72.5°	3041.5	1704.9	972.5	749.0	670.4	604.2	575.2	554.5	554.5	550.4	550.4
73°	2602.9	1531.1	926.9	728.3	641.4	587.6	554.5	538.0	538.0	533.8	529.7
75°	1460.8	1121.4	794.5	624.9	554.5	513.1	488.3	463.5	459.3	459.3	459.3
77.5°	960.0	873.1	633.1	500.7	446.9	409.7	401.4	376.6	376.6	376.6	372.4
80°	720.0	686.9	488.3	380.7	343.5	314.5	306.2	289.7	285.5	269.0	273.1
82.5°	480.0	542.1	355.9	269.0	231.7	215.2	215.2	211.0	198.6	177.9	177.9
85°	380.7	442.8	256.6	165.5	136.6	115.9	120.0	115.9	111.7	91.0	86.9
87.5°	70.3	177.9	74.5	45.5	33.1	20.7	20.7	12.4	8.3	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)