

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: P480526

Luminaire Tested: **IFLD-L-SA8A-740-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480526  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-740-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

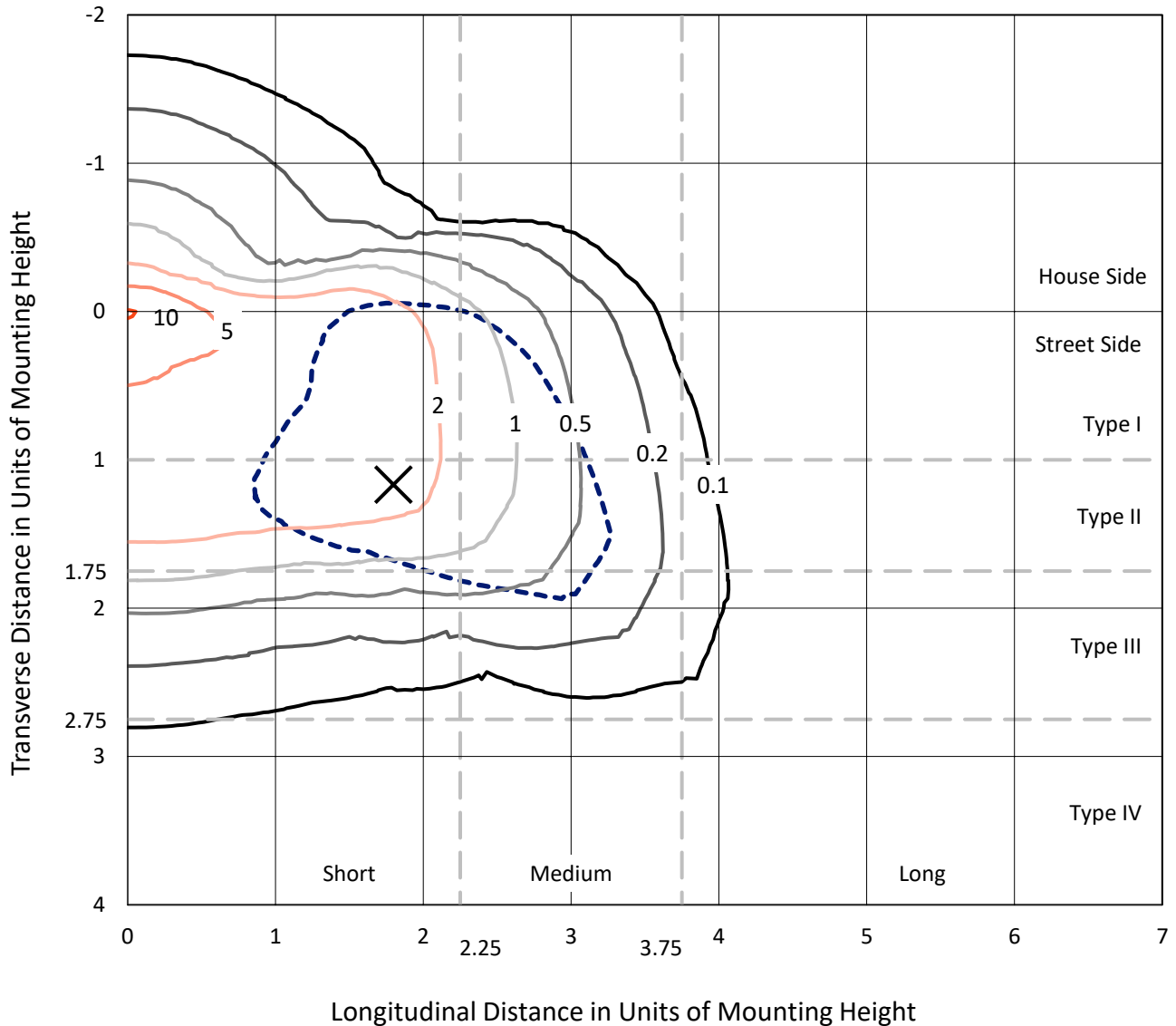
Lumens per Lamp: N/A  
Luminaire Lumens: 33801.5 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

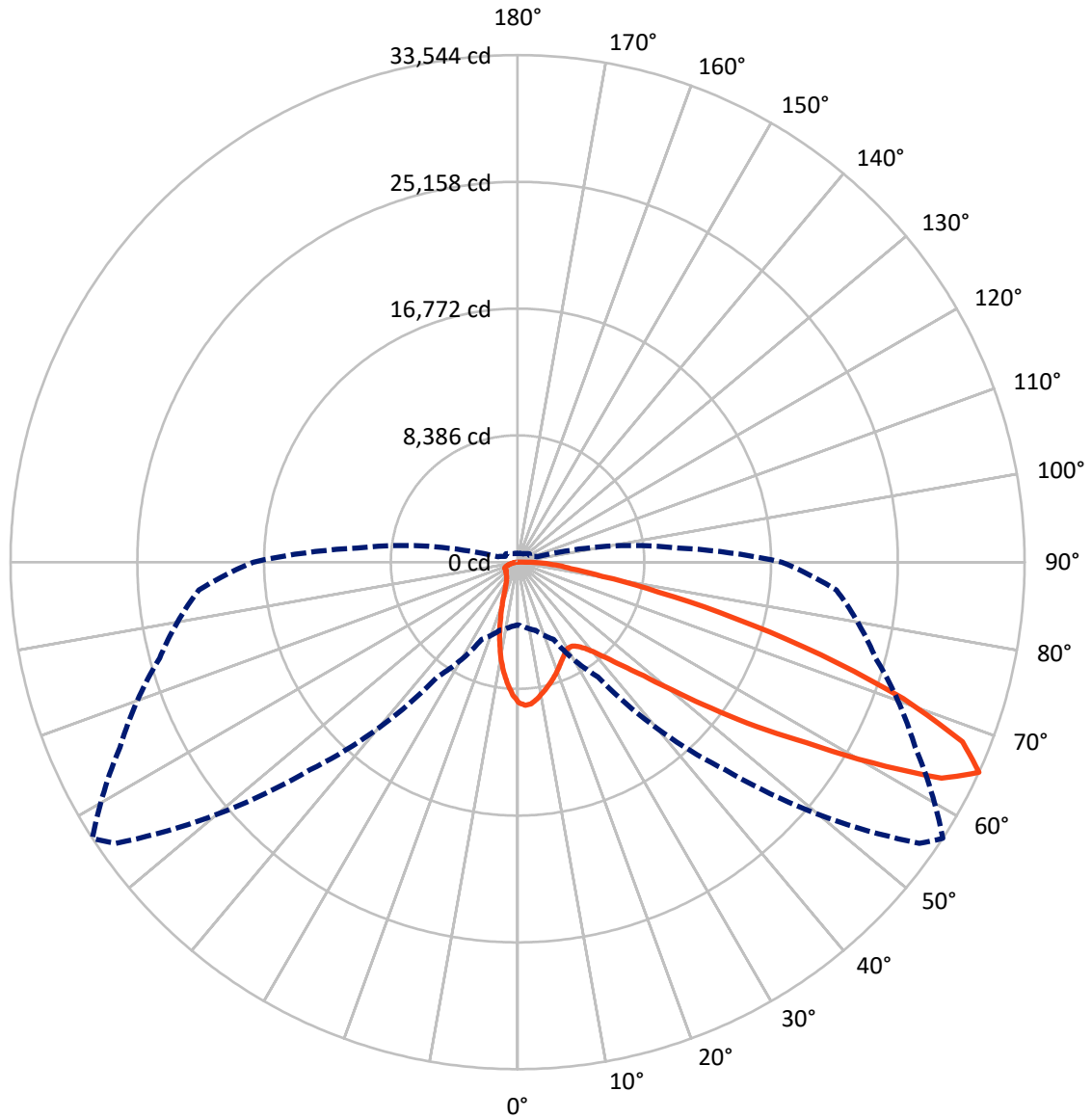
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5183.8	0.0	5183.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	28617.7	0.0	28617.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	33801.5	0.0	33801.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	778.4	2.3
10°-20°	1675.2	5.0
20°-30°	2165.9	6.4
30°-40°	2914.6	8.6
40°-50°	4647.4	13.7
50°-60°	8208.4	24.3
60°-70°	9030.4	26.7
70°-80°	3777.6	11.2
80°-90°	603.7	1.8
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°	33801.5	100.0
0°-180°	33801.5	100.0

**Coefficient of Utilization**



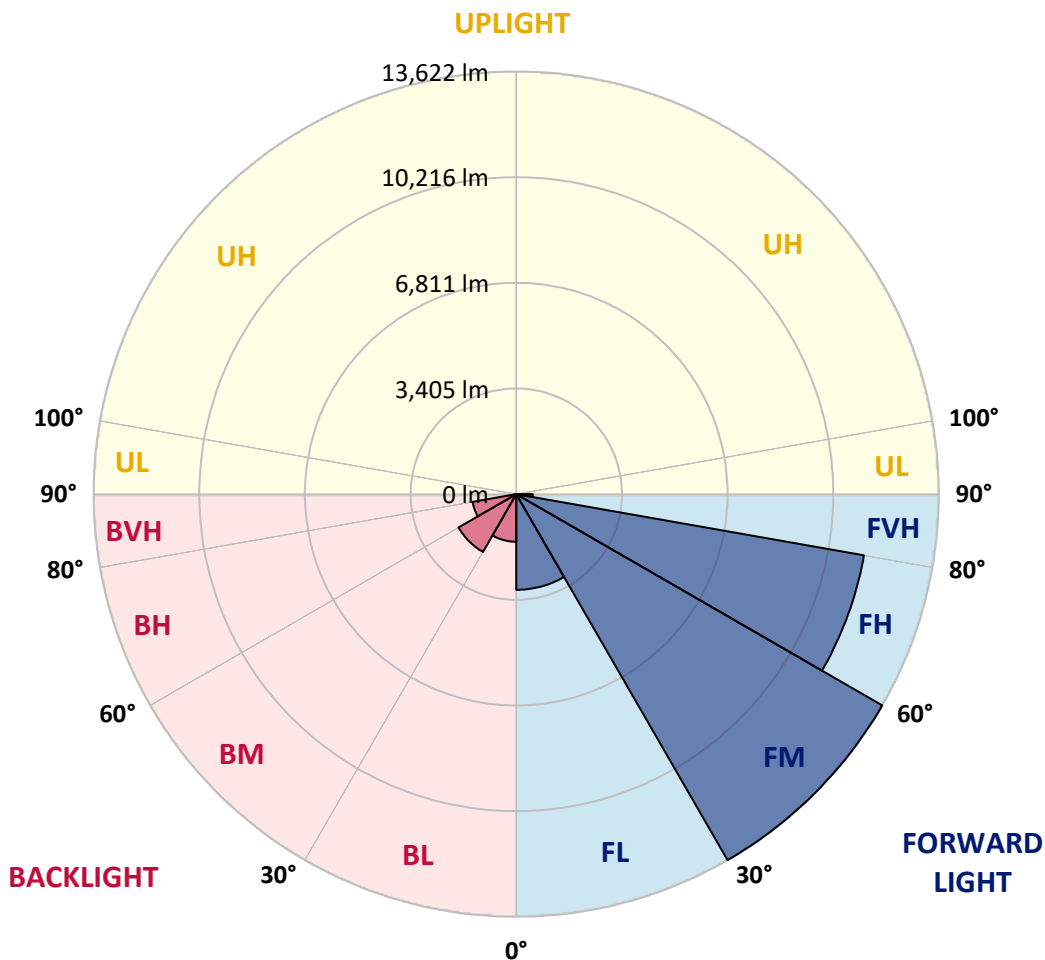
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3084.3	9.1			
FM	(30°-60°)	13622.0	40.3			
FH	(60°-80°)	11378.6	33.7			G4/12000
FVH	(80°-90°)	532.9	1.6			G4/750
BL	(0°-30°)	1535.2	4.5	B3/2500		
BM	(30°-60°)	2148.4	6.4	B2/2500		
BH	(60°-80°)	1429.3	4.2	B3/2500		G3/2500
BVH	(80°-90°)	70.8	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9
2.5°	9545.9	9561.2	9561.2	9591.6	9488.9	9538.3	9530.7	9485.1	9500.3	9420.4	9340.6
5°	9275.9	9264.5	9325.4	9333.0	9412.8	9435.7	9454.7	9424.2	9431.9	9256.9	9180.8
7.5°	8583.7	8579.9	8682.6	8770.1	8937.4	9093.4	9196.1	9165.6	9207.5	9097.2	8918.4
10°	7762.3	7849.7	7956.2	8043.7	8351.8	8549.5	8815.7	8842.4	9002.1	8975.5	8652.2
12.5°	7146.1	7184.2	7264.0	7515.1	7796.5	8123.6	8503.9	8538.1	8694.0	8770.1	8488.7
15°	6640.3	6674.6	6777.2	6963.6	7279.3	7667.2	8150.2	8237.7	8549.5	8576.1	8275.7
17.5°	6271.4	6298.0	6366.5	6552.9	6811.5	7309.7	7766.1	7922.0	8332.7	8462.0	8055.1
20°	6126.9	6069.9	6107.9	6225.8	6484.4	6868.5	7458.0	7594.9	8119.8	8374.6	7845.9
22.5°	6062.2	6012.8	6035.6	6028.0	6233.4	6507.2	7127.1	7271.7	7918.2	8271.9	7659.6
25°	6111.7	6111.7	6088.9	6069.9	6092.7	6271.4	6769.6	6994.0	7648.2	8184.4	7469.4
27.5°	6377.9	6275.2	6286.6	6206.8	6183.9	6183.9	6609.9	6743.0	7560.7	8135.0	7313.5
30°	6549.1	6598.5	6602.3	6484.4	6366.5	6153.5	6461.6	6590.9	7488.4	8195.8	7222.2
32.5°	6986.4	6963.6	6898.9	6876.1	6701.2	6461.6	6533.8	6621.3	7446.6	8332.7	7248.8
35°	7423.8	7412.4	7416.2	7404.8	7222.2	6868.5	6727.8	6845.7	7522.7	8572.3	7340.1
37.5°	7876.4	7906.8	8036.1	8036.1	7842.1	7458.0	7271.7	7237.4	7800.3	8964.1	7556.9
40°	8328.9	8405.0	8568.5	8827.1	8553.3	8195.8	7895.4	7842.1	8135.0	9488.9	8077.9
42.5°	8762.5	8888.0	9211.3	9595.4	9504.1	9146.6	8747.3	8686.4	8823.3	10268.5	8804.3
45°	9317.8	9424.2	9933.9	10523.4	10648.9	10333.2	9865.4	9816.0	9808.4	11409.5	9804.6
47.5°	10162.1	10276.2	10785.8	11379.1	11767.0	11816.4	11291.6	11238.4	11055.8	12949.8	11268.8
50°	11219.3	11405.7	11835.5	12527.6	13090.5	13619.1	13470.8	13314.9	12957.4	14741.1	13124.7
52.5°	11991.4	12219.6	12801.5	13687.6	14680.2	15520.7	16053.2	16053.2	15231.7	16707.3	15357.2
55°	12196.8	12333.7	13067.7	14349.3	16049.4	18175.3	19289.7	19206.0	17939.5	18776.2	17954.7
57.5°	11379.1	11557.8	12447.8	13790.3	16768.2	20658.8	22503.3	22522.3	20898.4	21179.8	20518.1
60°	9127.6	9184.6	10234.3	12029.4	16076.0	22659.3	26892.2	26964.4	24264.2	23321.0	21822.6
62.5°	6309.5	6492.0	7283.1	8857.6	13318.7	22434.9	31125.1	31482.6	26960.6	24450.6	22027.9
65°	4153.1	4263.3	4685.5	5643.9	9272.1	19445.6	32441.0	33543.9	29022.0	24515.2	21168.4
67.5°	3012.1	3031.1	3156.6	3651.0	5571.6	13984.2	30193.3	31748.8	29794.0	23975.2	19152.7
70°	2434.0	2449.2	2494.9	2810.5	3597.8	8751.1	24625.5	27063.3	27477.9	21415.6	15425.6
72.5°	1977.6	1996.7	2053.7	2350.4	2966.5	4868.1	18008.0	20978.3	22351.2	15844.0	10253.3
75°	1555.5	1570.7	1707.6	2000.5	2787.7	3343.0	11945.7	14855.2	15041.5	9260.7	4799.6
77.5°	1064.9	1091.5	1258.8	1696.2	2624.2	2924.6	7446.6	9515.5	8538.1	3624.4	1650.6
80°	677.0	715.0	813.9	1285.5	2319.9	2791.5	4632.3	5681.9	3738.5	1239.8	794.9
82.5°	399.3	437.4	536.2	832.9	1821.7	2590.0	3263.1	3556.0	1753.3	635.1	479.2
85°	220.6	247.2	323.3	502.0	1068.7	2300.9	2612.8	2551.9	1004.0	338.5	300.5
87.5°	72.3	83.7	117.9	201.6	441.2	1083.9	1566.9	1471.8	521.0	155.9	117.9
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°	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9	9294.9
2.5°	9287.3	9275.9	9104.8	8975.5	8754.9	8572.3	8500.1	8401.2	8397.4	8325.1	8306.1
5°	9062.9	8945.0	8682.6	8431.6	8039.9	7777.5	7537.9	7370.5	7302.1	7153.8	7119.5
7.5°	8773.9	8618.0	8214.8	7743.2	7283.1	6872.3	6499.6	6126.9	5917.7	5845.5	5765.6
10°	8473.5	8199.6	7602.5	7073.9	6431.2	5799.8	5214.1	4689.3	4404.1	4202.5	4115.0
12.5°	8233.9	7868.8	7108.1	6317.1	5469.0	4624.7	3943.9	3392.4	3069.2	2917.0	2848.6
15°	7963.8	7480.8	6568.1	5567.8	4510.6	3552.2	2886.6	2453.0	2323.7	2251.5	2240.1
17.5°	7678.6	7119.5	5982.4	4830.0	3575.0	2673.6	2243.9	2068.9	2011.9	1981.4	1966.2
20°	7412.4	6796.3	5381.5	4008.5	2799.1	2145.0	1943.4	1852.1	1848.3	1863.6	1859.7
22.5°	7035.9	6374.1	4788.2	3247.9	2236.3	1867.4	1738.0	1715.2	1738.0	1757.1	1764.7
25°	6822.9	6028.0	4126.4	2578.5	1848.3	1658.2	1616.3	1608.7	1643.0	1665.8	1662.0
27.5°	6602.3	5670.5	3510.3	2065.1	1620.1	1509.9	1502.3	1509.9	1544.1	1578.3	1574.5
30°	6431.2	5385.3	2932.2	1726.6	1445.2	1403.4	1395.8	1403.4	1422.4	1426.2	1426.2
32.5°	6290.4	5046.8	2441.6	1498.4	1338.7	1304.5	1312.1	1308.3	1312.1	1315.9	1319.7
35°	6206.8	4845.2	2038.5	1357.7	1251.2	1224.6	1220.8	1209.4	1213.2	1217.0	1213.2
37.5°	6385.5	4746.4	1719.0	1258.8	1190.4	1167.6	1160.0	1152.4	1140.9	1140.9	1140.9
40°	6655.5	4693.1	1525.1	1194.2	1144.8	1118.1	1095.3	1087.7	1087.7	1091.5	1095.3
42.5°	7191.8	4780.6	1392.0	1144.8	1087.7	1057.3	1034.5	1038.3	1049.7	1061.1	1053.5
45°	7967.6	5046.8	1331.1	1106.7	1053.5	1011.6	996.4	992.6	1004.0	1023.1	1038.3
47.5°	8983.1	5461.3	1308.3	1072.5	1030.7	973.6	954.6	966.0	981.2	1007.8	996.4
50°	10645.1	6393.1	1327.3	1042.1	996.4	954.6	931.8	920.4	931.8	950.8	958.4
52.5°	12816.7	8085.5	1399.6	1026.9	973.6	939.4	901.4	882.3	893.7	909.0	909.0
55°	15414.2	10397.9	1601.1	1007.8	935.6	916.6	874.7	836.7	844.3	844.3	840.5
57.5°	17703.7	12143.5	1840.7	981.2	912.8	886.1	832.9	787.3	779.6	783.5	787.3
60°	18730.6	12607.5	1954.8	973.6	912.8	848.1	775.8	730.2	718.8	711.2	711.2
62.5°	18551.8	11805.0	1722.8	939.4	935.6	817.7	722.6	673.2	657.9	642.7	646.5
65°	17471.7	10660.3	1357.7	893.7	939.4	798.7	669.4	619.9	593.3	574.3	570.5
67.5°	15497.9	9101.0	1076.3	859.5	901.4	764.4	623.7	566.7	543.9	524.8	517.2
70°	12124.5	7134.7	935.6	813.9	810.1	680.8	570.5	521.0	486.8	464.0	464.0
72.5°	7861.1	4510.6	802.5	722.6	699.8	570.5	494.4	464.0	437.4	418.3	418.3
75°	3559.8	2095.5	646.5	604.7	570.5	456.4	418.3	403.1	380.3	361.3	361.3
77.5°	1277.9	893.7	483.0	475.4	426.0	353.7	338.5	327.1	311.9	292.8	292.8
80°	715.0	566.7	361.3	346.1	296.6	262.4	243.4	243.4	235.8	224.4	220.6
82.5°	452.6	368.9	266.2	232.0	194.0	174.9	167.3	163.5	159.7	144.5	140.7
85°	285.2	251.0	174.9	136.9	114.1	87.5	83.7	79.9	72.3	64.7	64.7
87.5°	129.3	144.5	68.5	41.8	30.4	19.0	11.4	3.8	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)