

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: P477106

Luminaire Tested: **IFLD-S-SA3D-827-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477106  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-827-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

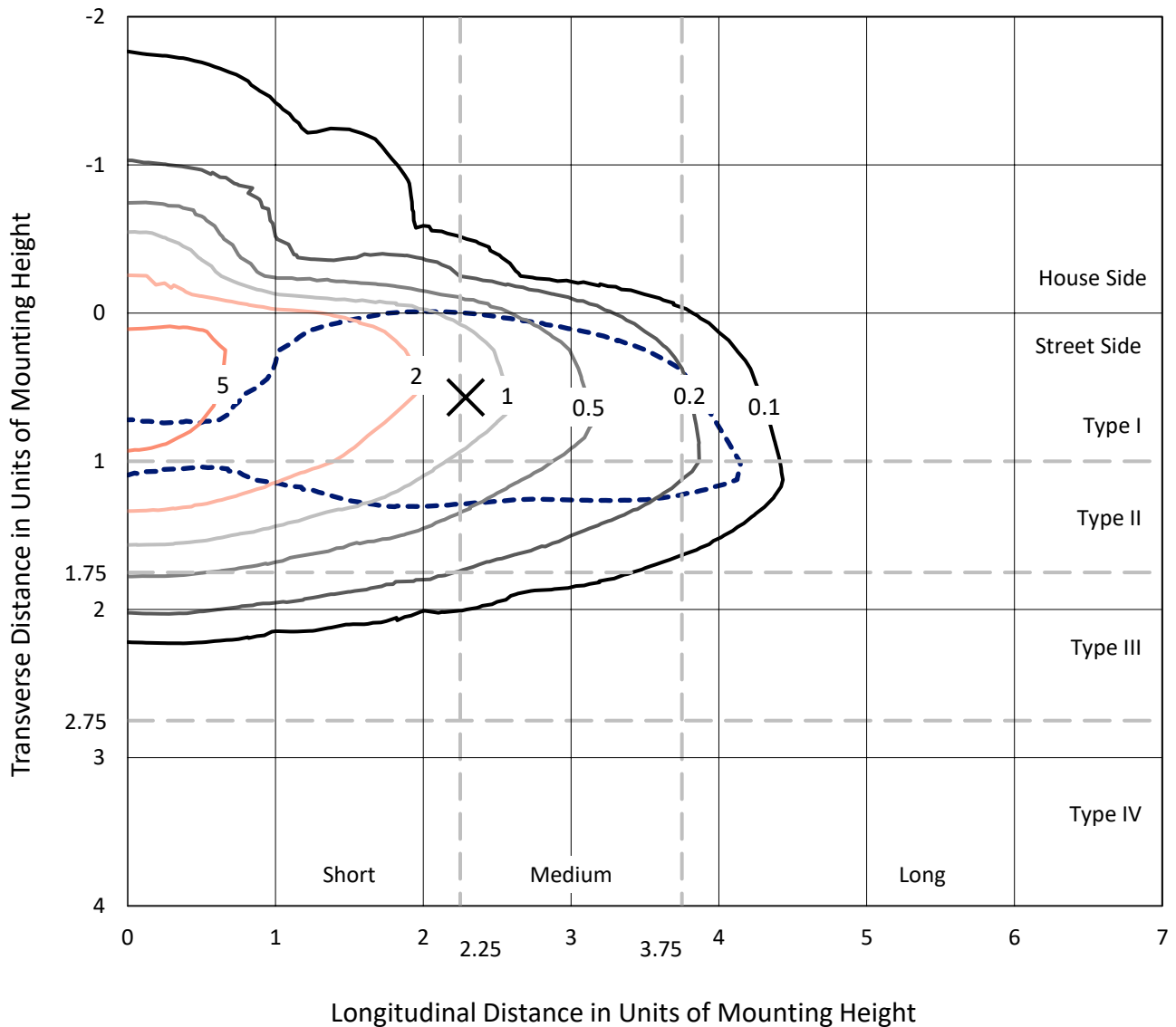
Lumens per Lamp: N/A  
Luminaire Lumens: 17229.3 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 184.1  
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

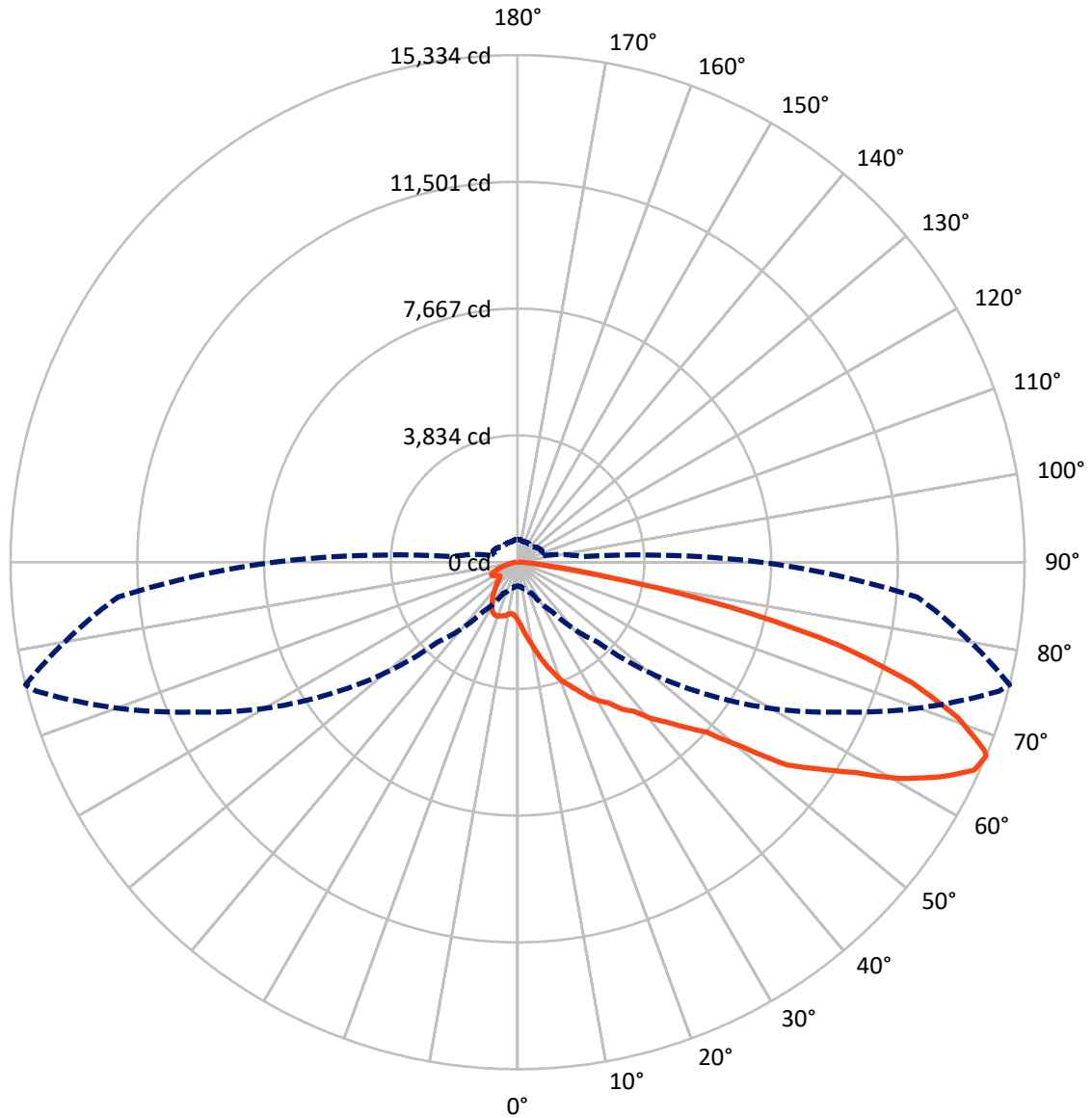
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2451.1	0.0	2451.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	14778.2	0.0	14778.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	17229.3	0.0	17229.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.2	1.2
10°-20°	766.0	4.4
20°-30°	1424.1	8.3
30°-40°	2257.5	13.1
40°-50°	3122.3	18.1
50°-60°	3840.6	22.3
60°-70°	3573.9	20.7
70°-80°	1793.4	10.4
80°-90°	247.3	1.4
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°	17229.3	100.0
0°-180°	17229.3	100.0

**Coefficient of Utilization**



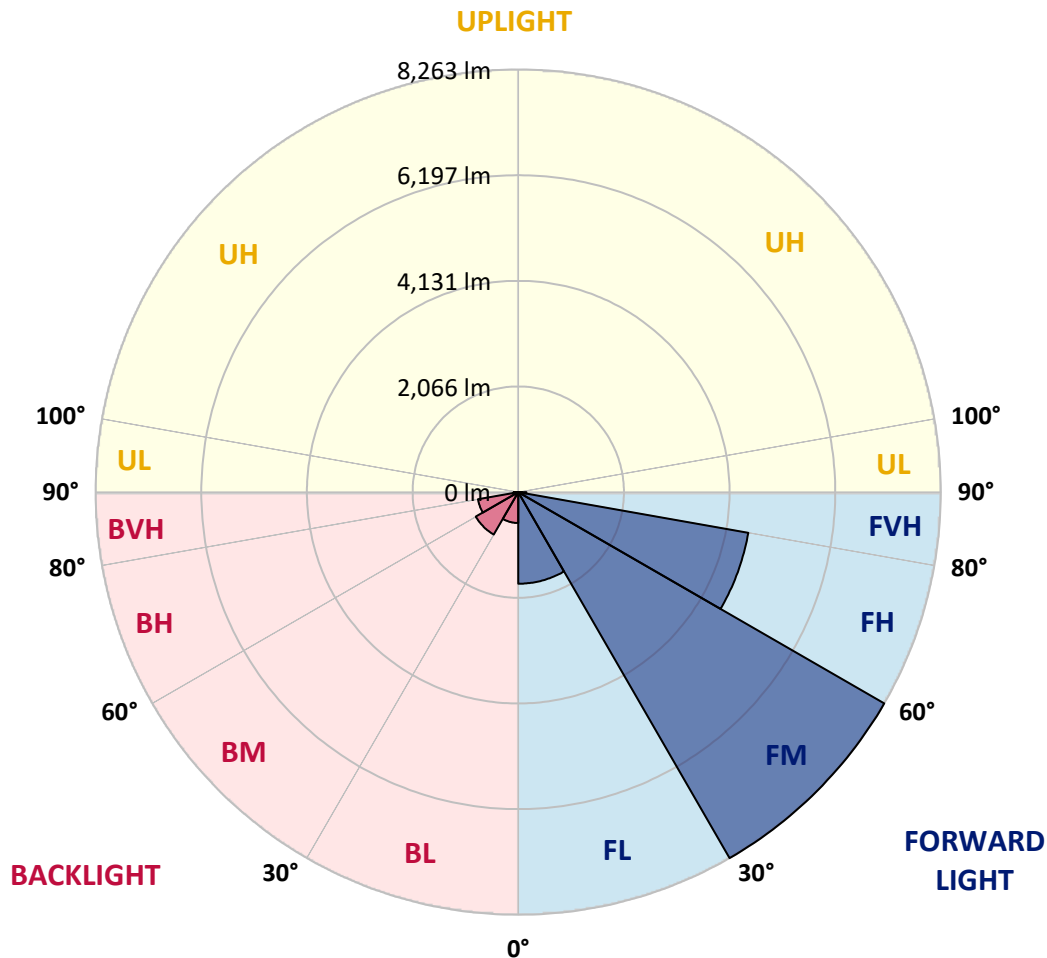
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.7	10.4			
FM (30°-60°)	8262.6	48.0			
FH (60°-80°)	4567.3	26.5			G2/5000
FVH (80°-90°)	157.5	0.9			G2/225
BL (0°-30°)	603.6	3.5	B2/1000		
BM (30°-60°)	957.8	5.6	B1/1000		
BH (60°-80°)	799.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	89.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2
2.5°	2446.4	2417.0	2387.5	2324.7	2303.1	2244.2	2136.2	2016.4	1918.3	1904.5	1835.8
5°	3035.5	2992.3	2982.4	2947.1	2835.2	2721.3	2544.6	2352.2	2112.6	2130.3	1894.7
7.5°	3477.2	3451.7	3398.7	3365.3	3298.5	3147.4	2964.8	2709.5	2405.2	2346.3	2026.3
10°	3811.0	3775.7	3773.7	3744.2	3708.9	3553.8	3414.4	3070.8	2680.1	2599.6	2187.3
12.5°	3979.9	3974.0	4078.0	4078.0	4064.3	3999.5	3760.0	3445.8	2941.2	2913.7	2373.8
15°	4162.5	4113.4	4203.7	4272.4	4307.7	4341.1	4142.8	3811.0	3275.0	3222.0	2574.0
17.5°	4162.5	4158.5	4248.8	4362.7	4547.3	4590.5	4482.5	4146.7	3551.8	3512.6	2793.9
20°	4091.8	4148.7	4211.5	4364.7	4565.0	4739.7	4771.1	4490.3	3858.1	3826.7	3043.3
22.5°	4421.6	4366.7	4431.4	4490.3	4645.5	4910.5	4996.9	4792.7	4180.1	4060.4	3269.1
25°	4975.3	4938.0	4890.9	4804.5	4869.3	4985.1	5116.7	5016.5	4455.0	4321.5	3487.0
27.5°	5515.3	5517.2	5415.1	5226.6	5087.2	5110.8	5265.9	5212.9	4686.7	4627.8	3636.3
30°	6282.9	6235.8	6121.9	5866.7	5593.8	5370.0	5344.4	5395.5	4981.2	4867.3	3850.3
32.5°	6858.2	6868.0	6707.0	6339.9	5966.8	5784.2	5560.4	5582.0	5167.7	5083.3	4021.1
35°	7323.6	7311.8	7197.9	6893.6	6451.8	6231.9	5929.5	5805.8	5601.6	5468.1	4282.2
37.5°	7826.2	7730.0	7545.4	7201.8	6919.1	6614.8	6320.3	6041.4	5890.3	5729.3	4506.1
40°	8028.4	8028.4	7781.0	7624.0	7288.2	7058.5	6868.0	6351.7	6241.7	6210.3	4792.7
42.5°	7885.1	7973.5	7871.4	7692.7	7555.2	7264.7	7213.6	6673.7	6675.6	6612.8	5136.3
45°	7871.4	7749.6	7665.2	7710.4	7645.6	7629.9	7759.4	7119.4	7131.1	7123.3	5597.7
47.5°	7476.7	7421.7	7547.4	7622.0	7675.0	7918.5	8291.5	7651.5	7735.9	7677.0	6129.8
50°	7084.0	7074.2	7152.7	7423.7	7653.4	8054.0	8798.1	8472.2	8749.0	8745.1	7093.8
52.5°	6008.1	6112.1	6420.4	6993.7	7561.1	8238.5	9181.0	9520.6	10048.8	10192.1	7893.0
55°	4979.2	4924.3	5379.8	6212.3	7158.6	8311.2	9609.0	10150.9	10928.4	11032.5	8713.7
57.5°	3873.8	3975.9	4335.2	5134.3	6326.1	7951.9	9923.1	10773.3	11921.9	12002.4	9665.9
60°	2890.2	2903.9	3298.5	3942.6	5218.8	7141.0	10025.2	11411.4	13060.7	13290.4	10663.3
62.5°	1818.1	1900.6	2201.0	2835.2	3928.8	6006.1	9567.8	11798.2	14254.4	14315.3	11668.6
65°	979.7	1032.8	1258.6	1657.1	2744.9	4543.4	8354.4	11566.5	14816.0	15177.3	12116.3
67°	724.5	734.3	838.4	1058.3	1835.8	3420.3	6966.2	10728.1	15071.2	15334.3	12133.9
67.5°	679.3	693.1	775.6	950.3	1627.7	3149.3	6603.0	10429.7	14957.3	15240.1	11996.5
70°	581.2	585.1	604.7	653.8	913.0	1894.7	4496.2	8546.8	13863.7	14134.7	11032.5
72.5°	516.4	520.3	528.2	538.0	618.5	1095.6	2735.0	6577.5	12049.5	12481.5	9518.7
75°	453.6	467.3	471.2	463.4	526.2	712.7	1454.9	4833.9	9828.9	10039.0	7402.1
77.5°	384.8	390.7	398.6	406.4	469.3	532.1	699.0	3263.2	6746.3	6618.7	4003.4
80°	324.0	325.9	331.8	337.7	406.4	406.4	396.6	1763.2	2947.1	2817.5	1352.8
82.5°	231.7	245.4	259.2	274.9	337.7	272.9	259.2	785.4	932.6	887.5	457.5
85°	90.3	110.0	170.8	188.5	214.0	147.3	172.8	339.7	388.8	384.8	170.8
87.5°	15.7	17.7	47.1	72.6	78.5	51.0	82.5	121.7	145.3	157.1	62.8
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°	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2
2.5°	1778.9	1718.0	1645.3	1572.7	1525.6	1451.0	1445.1	1399.9	1394.0	1378.3	1386.2
5°	1792.6	1720.0	1572.7	1456.9	1403.8	1360.7	1370.5	1350.8	1344.9	1335.1	1319.4
7.5°	1900.6	1757.3	1537.4	1437.2	1398.0	1378.3	1378.3	1354.8	1337.1	1348.9	1360.7
10°	1971.3	1774.9	1564.8	1464.7	1433.3	1390.1	1405.8	1376.4	1386.2	1362.6	1362.6
12.5°	2085.2	1875.1	1621.8	1505.9	1454.9	1415.6	1431.3	1398.0	1390.1	1392.1	1386.2
15°	2238.3	1941.8	1647.3	1529.5	1494.2	1445.1	1433.3	1403.8	1374.4	1364.6	1376.4
17.5°	2381.6	2024.3	1665.0	1543.2	1486.3	1431.3	1417.6	1380.3	1370.5	1341.0	1317.5
20°	2552.4	2122.5	1688.5	1555.0	1456.9	1401.9	1366.5	1329.2	1295.9	1278.2	1286.0
22.5°	2666.3	2173.5	1700.3	1531.5	1413.7	1362.6	1288.0	1262.5	1215.4	1195.7	1180.0
25°	2852.9	2236.3	1670.9	1466.7	1337.1	1254.6	1187.9	1152.5	1119.2	1093.6	1085.8
27.5°	2900.0	2283.5	1602.2	1356.7	1215.4	1129.0	1072.0	1028.8	1007.2	968.0	960.1
30°	3037.4	2236.3	1500.1	1223.2	1099.5	1011.2	954.2	922.8	871.8	861.9	840.3
32.5°	3125.8	2250.1	1370.5	1093.6	966.0	887.5	850.2	818.7	805.0	757.9	746.1
35°	3273.0	2203.0	1238.9	973.9	856.1	795.2	763.8	754.0	708.8	687.2	667.6
37.5°	3367.3	2175.5	1107.4	838.4	736.3	710.8	720.6	679.3	624.4	583.1	569.4
40°	3532.2	2165.7	958.1	726.5	653.8	647.9	679.3	600.8	500.7	465.3	445.7
42.5°	3769.8	2098.9	842.3	626.3	589.0	614.6	620.4	500.7	443.7	414.3	400.5
45°	3997.5	2112.6	728.4	518.3	512.5	549.8	536.0	424.1	390.7	369.1	380.9
47.5°	4435.4	2181.4	616.5	432.0	461.4	496.7	416.2	378.9	347.5	331.8	333.8
50°	5112.8	2248.1	518.3	394.6	435.9	449.6	357.3	343.6	341.6	310.2	308.3
52.5°	5519.2	2222.6	500.7	441.8	467.3	449.6	388.8	378.9	363.2	349.5	333.8
55°	6165.1	2297.2	538.0	516.4	530.1	432.0	435.9	432.0	420.2	384.8	394.6
57.5°	6679.6	2346.3	587.1	577.2	569.4	449.6	455.5	457.5	449.6	433.9	447.7
60°	7386.4	2444.5	638.1	640.1	642.0	488.9	498.7	510.5	508.5	502.6	506.6
62.5°	7820.3	2399.3	695.1	726.5	716.6	569.4	567.4	575.3	575.3	585.1	591.0
65°	7755.5	2232.4	724.5	803.0	752.0	628.3	628.3	632.2	634.2	653.8	655.8
67°	7366.8	1934.0	708.8	814.8	752.0	651.9	651.9	655.8	642.0	693.1	677.4
67.5°	7186.1	1845.6	695.1	805.0	746.1	649.9	649.9	651.9	640.1	689.2	673.5
70°	6249.6	1370.5	598.8	712.7	691.1	632.2	632.2	620.4	610.6	675.4	661.7
72.5°	5334.6	995.5	481.0	606.7	624.4	608.7	612.6	583.1	555.6	600.8	589.0
75°	4085.9	732.4	375.0	467.3	528.2	569.4	594.9	520.3	485.0	496.7	475.1
77.5°	2279.5	477.1	296.5	345.6	402.5	530.1	571.4	469.3	396.6	382.9	382.9
80°	773.6	278.8	217.9	257.2	276.8	469.3	534.1	380.9	312.2	298.4	288.6
82.5°	292.5	170.8	149.2	176.7	176.7	371.1	435.9	292.5	235.6	304.3	310.2
85°	133.5	102.1	98.2	102.1	102.1	227.8	308.3	190.5	212.0	182.6	161.0
87.5°	53.0	49.1	45.2	43.2	35.3	39.3	106.0	51.0	96.2	25.5	23.6
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)