

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: P399175

Luminaire Tested: **ARCH-L-PA3-100-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-830-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13387 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

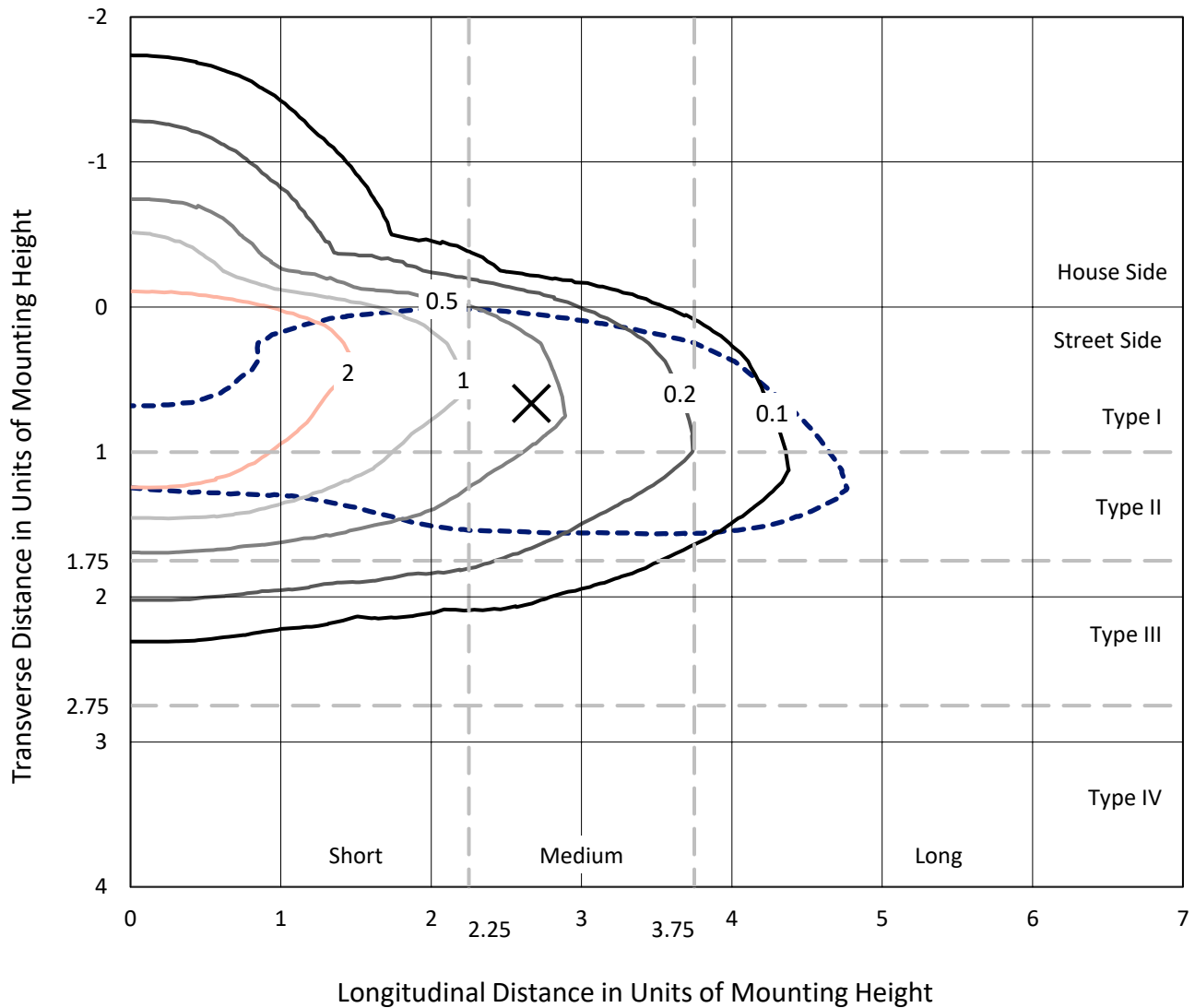
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

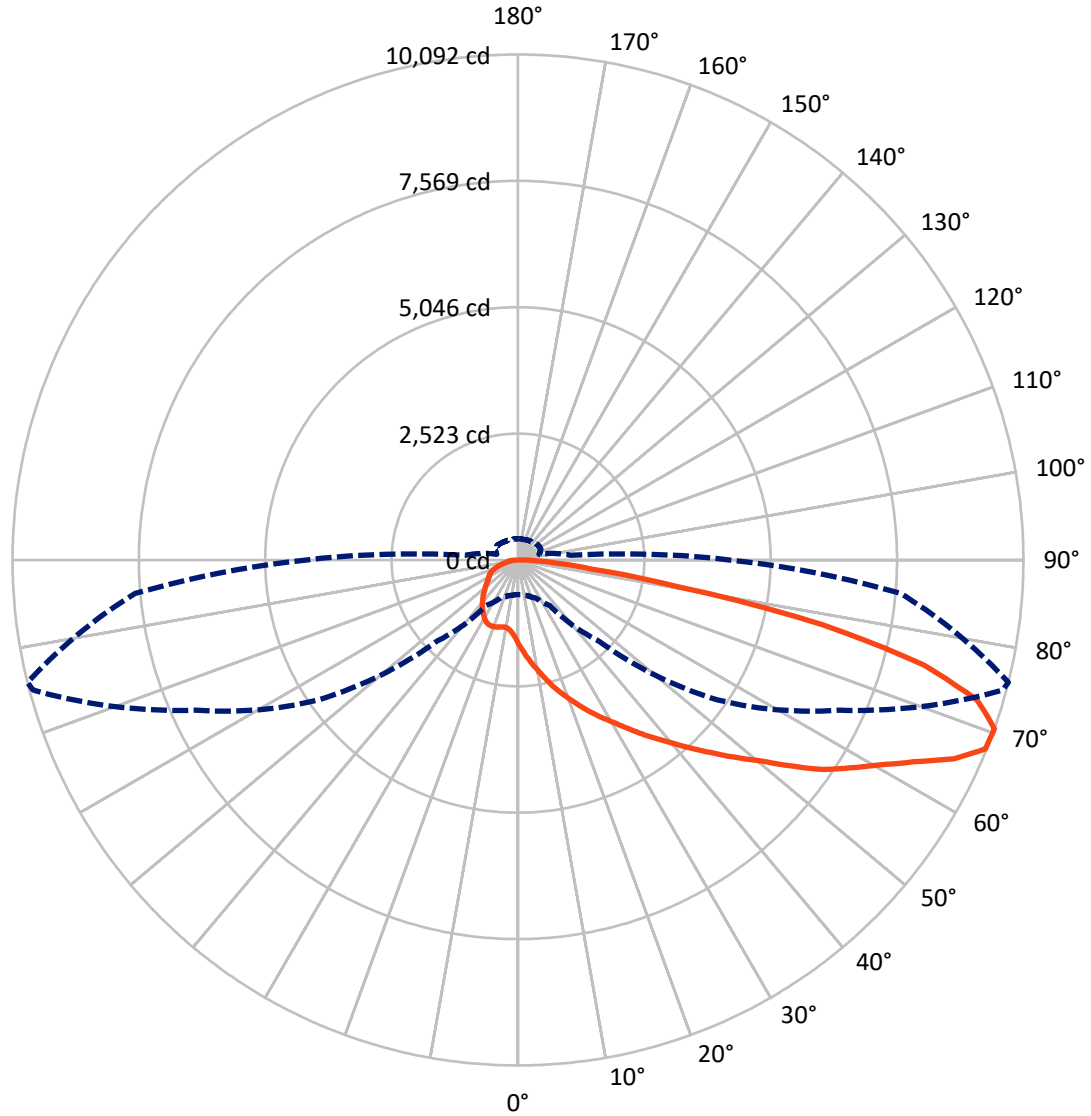
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2185.6	0.0	2185.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	11201.4	0.0	11201.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	13387.0	0.0	13387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.3
10°-20°	591.2	4.4
20°-30°	1057.7	7.9
30°-40°	1711.0	12.8
40°-50°	2475.2	18.5
50°-60°	2833.0	21.2
60°-70°	2606.1	19.5
70°-80°	1611.6	12.0
80°-90°	327.2	2.4
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°	13387.0	100.0
0°-180°	13387.0	100.0

Coefficient of Utilization

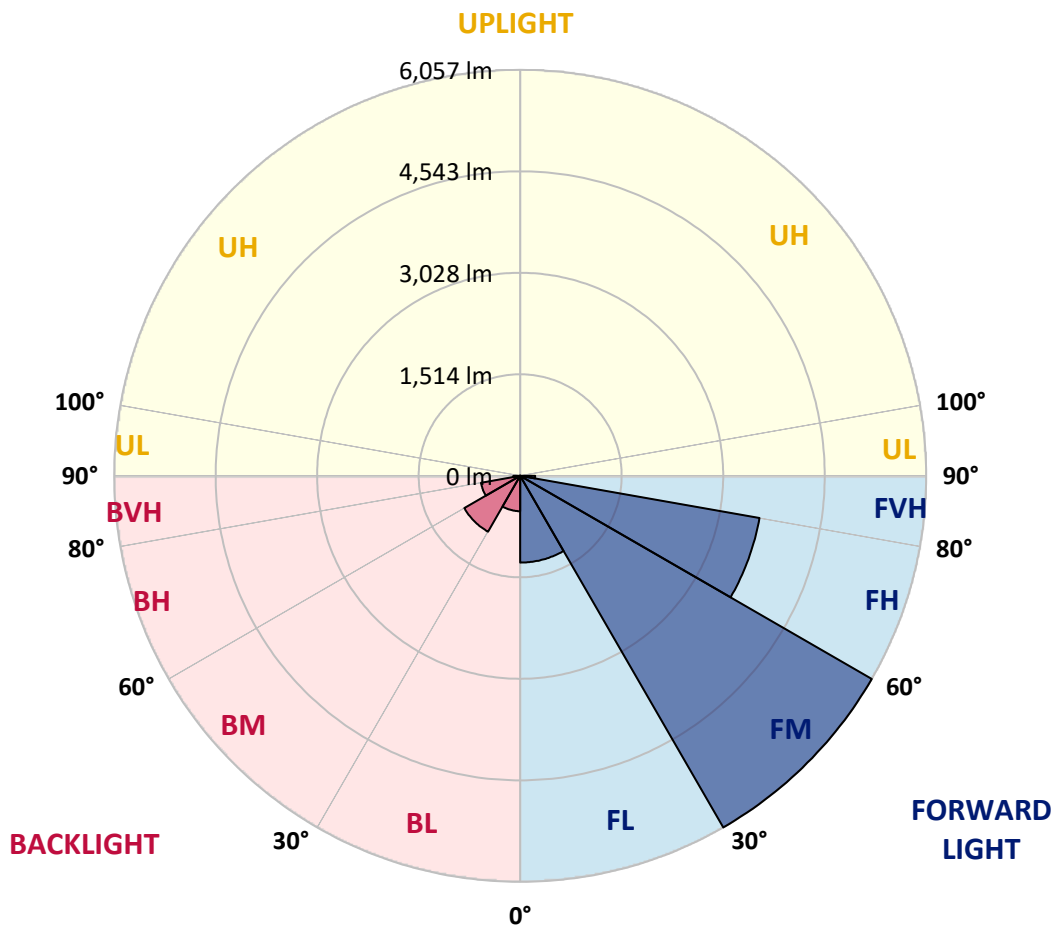


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.0	9.7			
FM (30°-60°)	6057.0	45.2			
FH (60°-80°)	3624.8	27.1			G2/5000
FVH (80°-90°)	224.7	1.7			G2/225
BL (0°-30°)	527.9	3.9	B2/1000		
BM (30°-60°)	962.3	7.2	B1/1000		
BH (60°-80°)	592.8	4.4	B2/1000		G2/1000
BVH (80°-90°)	102.6	0.8			G2/225
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°	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1
2.5°	2133.6	2117.7	2116.0	2091.3	2068.4	2006.8	1962.8	1885.3	1807.9	1806.1	1728.7
5°	2466.3	2450.4	2441.6	2411.7	2373.0	2292.0	2212.8	2093.1	1961.0	1952.2	1806.1
7.5°	2691.6	2677.5	2659.9	2647.6	2610.6	2538.4	2441.6	2299.0	2117.7	2100.1	1895.9
10°	2843.0	2834.2	2830.7	2821.9	2799.0	2740.9	2647.6	2496.2	2274.4	2255.0	1991.0
12.5°	2908.1	2904.6	2920.4	2945.1	2953.9	2931.0	2841.2	2698.6	2446.9	2425.8	2105.4
15°	2832.4	2835.9	2876.4	2960.9	3050.7	3100.0	3047.2	2908.1	2642.3	2612.4	2239.2
17.5°	2797.2	2802.5	2830.7	2911.6	3038.4	3191.5	3216.2	3107.0	2830.7	2788.4	2380.0
20°	2858.8	2865.9	2887.0	2950.4	3038.4	3202.1	3330.6	3297.2	3015.5	2971.5	2515.6
22.5°	3015.5	3024.3	3022.5	3063.0	3122.9	3235.5	3394.0	3476.7	3209.1	3159.8	2656.4
25°	3350.0	3342.9	3283.1	3263.7	3279.5	3351.7	3478.5	3649.2	3411.6	3362.3	2804.3
27.5°	3804.1	3795.3	3686.2	3587.6	3499.6	3531.3	3598.2	3788.3	3617.5	3561.2	2945.1
30°	4290.0	4279.4	4152.7	3992.5	3797.1	3751.3	3742.5	3909.8	3825.3	3765.4	3094.7
32.5°	4763.5	4754.7	4619.2	4432.6	4163.2	4025.9	3941.4	4045.3	4061.1	4003.1	3258.4
35°	5194.8	5194.8	5078.6	4856.8	4552.3	4344.6	4205.5	4212.5	4332.2	4265.4	3445.0
37.5°	5578.6	5576.8	5450.1	5231.8	4939.6	4701.9	4529.4	4415.0	4591.0	4532.9	3640.4
40°	5883.1	5870.8	5777.5	5587.4	5293.4	5057.5	4883.2	4652.6	4879.7	4826.9	3848.1
42.5°	6104.9	6097.9	6034.5	5869.0	5589.1	5367.3	5247.6	4951.9	5207.1	5154.3	4091.1
45°	6191.2	6205.3	6205.3	6048.6	5826.8	5624.3	5571.5	5281.1	5561.0	5508.2	4351.6
47.5°	6052.1	6089.1	6164.8	6175.3	5979.9	5842.6	5860.2	5612.0	5925.4	5897.2	4636.8
50°	5617.3	5686.0	5851.4	6150.7	6041.6	6009.9	6106.7	5950.0	6316.2	6307.4	4983.6
52.5°	4496.0	4663.2	5179.0	5715.9	5999.3	6087.3	6351.4	6330.3	6819.6	6833.7	5436.0
55°	3448.5	3511.9	4108.7	5022.3	5740.5	6062.7	6515.1	6701.7	7365.3	7382.9	5851.4
57.5°	2788.4	2830.7	3156.3	4108.7	5150.8	5928.9	6643.6	6918.2	7784.3	7830.1	6221.1
60°	2209.3	2270.9	2489.1	3144.0	4325.2	5606.7	6733.4	7159.4	8235.0	8303.6	6663.0
62.5°	1642.4	1672.3	1878.3	2329.0	3423.9	5027.6	6685.8	7421.7	8787.7	8870.5	7194.6
65°	1168.9	1195.3	1341.4	1656.5	2531.4	4244.2	6409.5	7617.1	9481.3	9565.8	7729.7
67.5°	874.9	885.5	968.2	1158.3	1705.8	3297.2	5849.7	7583.6	9988.3	10064.0	7944.5
70°	691.8	695.3	735.8	837.9	1109.0	2295.5	4869.2	7092.5	10025.2	10092.1	7673.4
72.5°	573.9	572.1	595.0	644.3	772.8	1452.3	3607.0	6180.6	9549.9	9595.7	6916.5
75°	473.5	477.1	492.9	521.1	589.7	957.6	2337.8	4930.8	8425.1	8375.8	5803.9
77.5°	397.8	396.1	403.1	427.8	477.1	688.3	1369.6	3563.0	6244.0	6219.3	3809.4
80°	320.4	323.9	334.5	355.6	401.4	524.6	809.8	2223.3	3350.0	3260.2	1820.2
82.5°	214.8	248.2	269.3	294.0	346.8	387.3	514.0	1130.2	1498.1	1475.2	825.6
85°	102.1	135.5	200.7	228.8	281.7	242.9	348.6	538.7	749.9	741.1	297.5
87.5°	21.1	21.1	107.4	128.5	174.3	103.9	193.6	234.1	362.6	339.7	121.5
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°	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1
2.5°	1682.9	1635.4	1540.3	1464.6	1387.2	1343.2	1288.6	1262.2	1256.9	1242.8	1253.4
5°	1712.8	1619.5	1440.0	1322.0	1242.8	1204.1	1184.7	1177.7	1175.9	1172.4	1172.4
7.5°	1753.3	1610.7	1376.6	1256.9	1205.8	1193.5	1198.8	1209.4	1211.1	1214.6	1212.9
10°	1802.6	1612.5	1341.4	1241.1	1216.4	1218.2	1235.8	1249.9	1256.9	1262.2	1260.4
12.5°	1871.3	1633.6	1336.1	1251.6	1241.1	1248.1	1265.7	1279.8	1286.8	1288.6	1288.6
15°	1961.0	1677.6	1348.4	1274.5	1265.7	1271.0	1281.5	1286.8	1288.6	1286.8	1286.8
17.5°	2059.6	1730.4	1366.0	1288.6	1274.5	1269.2	1265.7	1260.4	1249.9	1242.8	1242.8
20°	2154.7	1778.0	1374.8	1286.8	1262.2	1241.1	1219.9	1193.5	1175.9	1161.8	1161.8
22.5°	2249.7	1822.0	1374.8	1267.5	1228.7	1188.2	1144.2	1102.0	1075.6	1058.0	1058.0
25°	2350.1	1864.2	1364.3	1234.0	1175.9	1117.8	1058.0	1005.2	978.8	961.2	957.6
27.5°	2434.6	1888.9	1336.1	1186.5	1110.8	1036.9	968.2	913.6	894.3	878.4	878.4
30°	2524.4	1904.7	1283.3	1124.9	1036.9	952.4	881.9	837.9	816.8	793.9	792.2
32.5°	2624.7	1915.3	1223.4	1059.7	961.2	871.4	811.5	776.3	730.5	705.9	702.4
35°	2740.9	1929.4	1160.1	985.8	885.5	804.5	769.3	711.2	667.2	646.1	644.3
37.5°	2864.1	1939.9	1091.4	920.7	816.8	760.5	725.3	656.6	617.9	586.2	582.7
40°	2994.4	1939.9	1021.0	857.3	762.2	741.1	674.2	612.6	547.5	531.6	528.1
42.5°	3138.7	1936.4	950.6	795.7	711.2	697.1	644.3	579.2	545.7	531.6	528.1
45°	3291.9	1924.1	883.7	725.3	658.4	630.2	589.7	572.1	558.0	558.0	558.0
47.5°	3466.1	1913.5	808.0	661.9	619.6	588.0	558.0	547.5	545.7	551.0	556.3
50°	3689.7	1910.0	744.6	616.1	589.7	552.8	549.2	540.4	542.2	542.2	542.2
52.5°	3960.8	1878.3	684.8	582.7	559.8	515.8	526.3	535.1	538.7	536.9	535.1
55°	4159.7	1822.0	633.7	559.8	538.7	501.7	515.8	529.9	533.4	528.1	528.1
57.5°	4339.3	1742.8	593.2	542.2	524.6	492.9	508.7	522.8	519.3	517.5	515.8
60°	4545.2	1667.1	561.6	533.4	510.5	489.4	503.5	512.3	507.0	503.5	501.7
62.5°	4768.8	1593.1	538.7	533.4	499.9	487.6	498.2	501.7	491.1	487.6	487.6
65°	4872.7	1476.9	514.0	533.4	494.7	484.1	487.6	484.1	473.5	473.5	471.8
67.5°	4701.9	1285.1	482.3	526.3	501.7	478.8	471.8	466.5	454.2	454.2	450.7
70°	4230.1	1056.2	436.6	503.5	503.5	477.1	450.7	438.3	424.2	429.5	422.5
72.5°	3614.0	837.9	380.2	464.7	492.9	475.3	427.8	408.4	396.1	401.4	390.8
75°	2927.5	649.6	313.3	403.1	466.5	466.5	404.9	378.5	364.4	364.4	352.1
77.5°	1866.0	480.6	255.3	334.5	419.0	454.2	385.5	345.0	323.9	318.6	309.8
80°	924.2	338.0	209.5	265.8	357.4	426.0	371.4	306.3	276.4	265.8	250.0
82.5°	491.1	234.1	167.2	207.7	285.2	383.8	353.8	264.1	227.1	211.2	193.6
85°	220.0	144.3	133.8	158.4	216.5	315.1	318.6	216.5	174.3	207.7	153.2
87.5°	81.0	65.1	65.1	81.0	125.0	132.0	225.3	139.1	110.9	75.7	59.9
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)