

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: P233564

Luminaire Tested: **VERD-C028-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C028-D-U-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 930mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8104 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 73
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

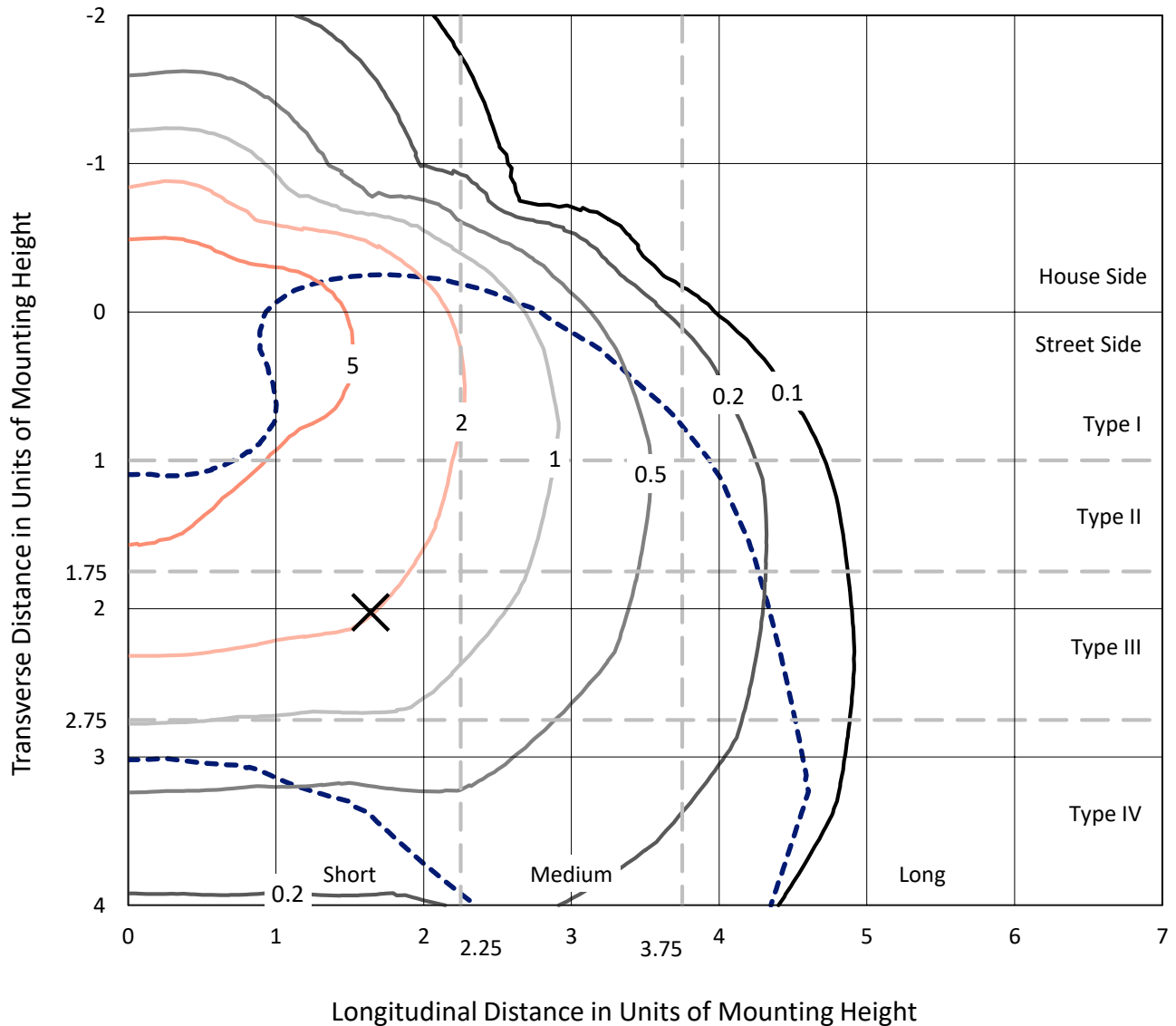


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

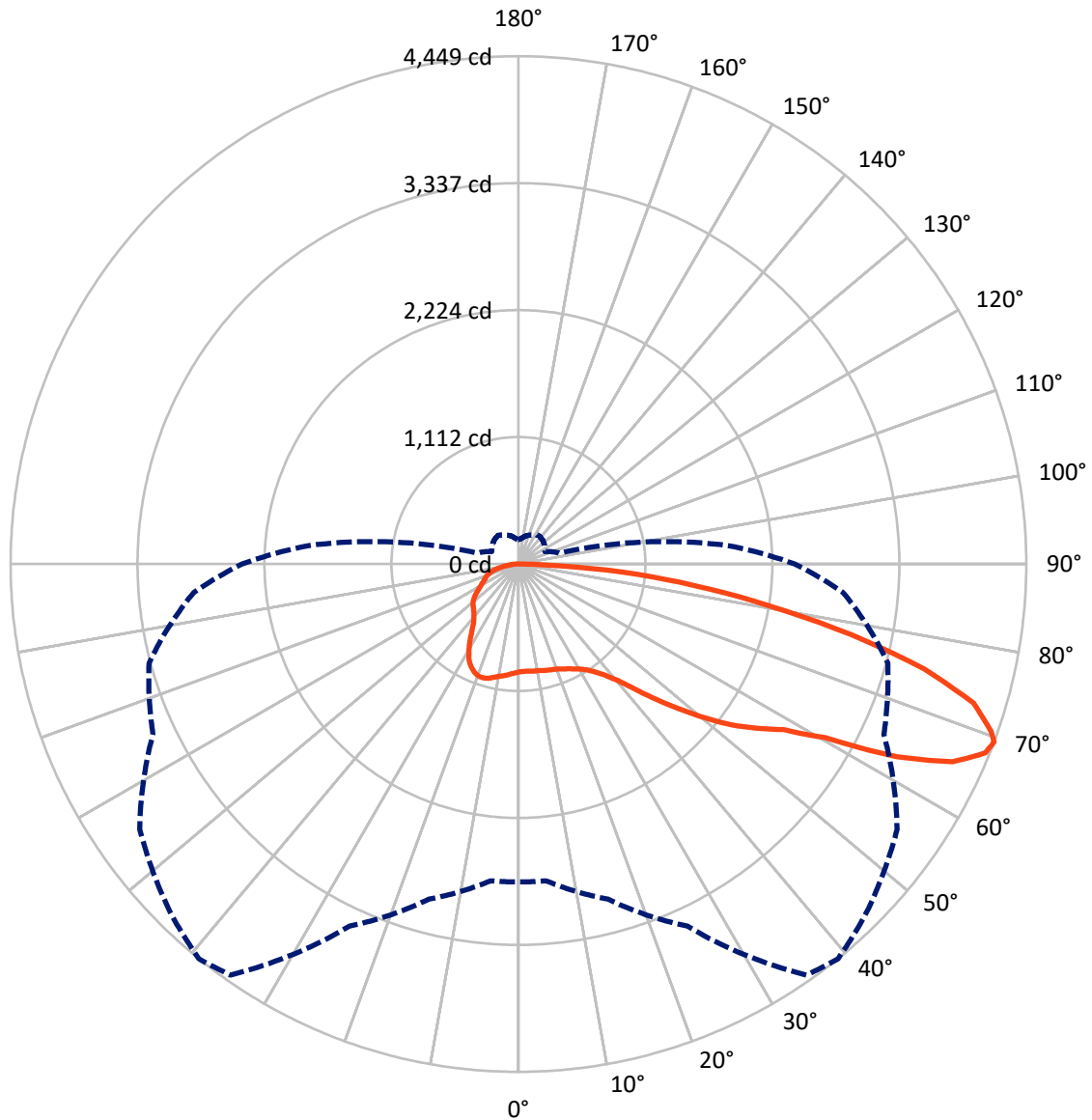


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1899.7	0.0	1899.7
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6204.3	0.0	6204.3
	% Fixture	76.6	0.0	76.6
Total	Lumens	8104.0	0.0	8104.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.1
10°-20°	283.5	3.5
20°-30°	477.3	5.9
30°-40°	691.5	8.5
40°-50°	1117.7	13.8
50°-60°	1636.4	20.2
60°-70°	2048.1	25.3
70°-80°	1464.2	18.1
80°-90°	293.6	3.6
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°	8104.0	100.0
0°-180°	8104.0	100.0



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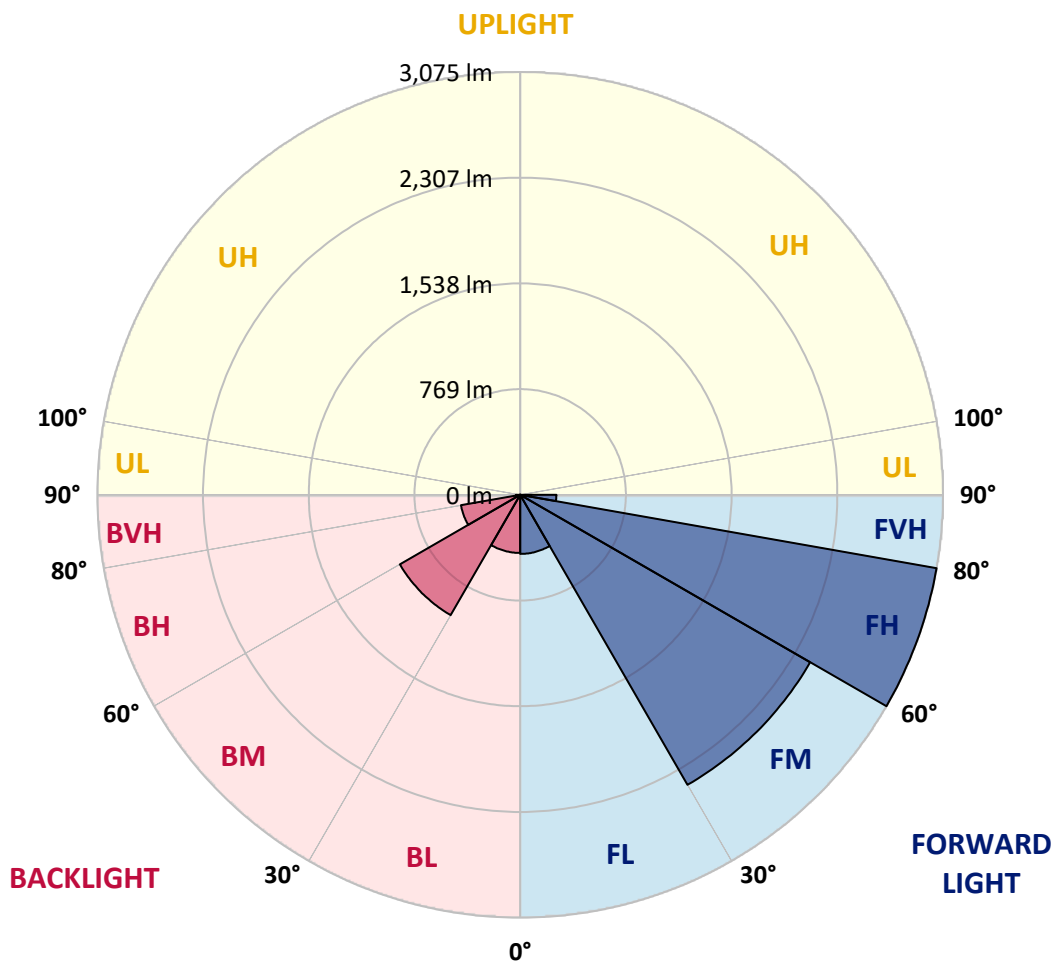
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	429.9	5.3			
FM	(30°-60°)	2435.4	30.1			
FH	(60°-80°)	3075.4	37.9			G2/5000
FVH	(80°-90°)	263.6	3.3			G3/500
BL	(0°-30°)	422.6	5.2	B1/500		
BM	(30°-60°)	1010.2	12.5	B2/2500		
BH	(60°-80°)	436.9	5.4	B1/500		G1/500
BVH	(80°-90°)	30.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0
2.5°	960.4	958.9	955.9	944.0	942.5	941.7	943.2	938.7	938.0	939.5	938.0
5°	961.1	959.6	955.9	945.5	944.0	942.5	943.2	939.5	940.2	944.0	944.0
7.5°	962.6	961.1	957.4	946.2	949.2	947.7	950.7	945.5	945.5	948.4	949.2
10°	958.9	958.1	955.9	947.7	952.2	949.2	952.2	952.9	955.9	958.1	957.4
12.5°	949.2	949.2	949.2	945.5	958.1	957.4	962.6	967.9	975.3	979.1	981.3
15°	943.2	942.5	947.7	946.9	962.6	964.9	973.8	987.3	998.5	1008.2	1011.2
17.5°	949.2	949.2	955.9	954.4	970.1	971.6	981.3	1000.7	1019.4	1038.1	1046.3
20°	955.9	956.7	964.9	967.1	982.0	981.3	991.0	1014.9	1040.3	1067.9	1082.1
22.5°	976.8	976.1	982.8	978.3	995.5	998.5	1006.7	1027.6	1063.4	1098.5	1121.7
25°	992.5	994.7	1001.5	998.5	1012.7	1016.4	1029.8	1050.0	1092.6	1134.4	1175.5
27.5°	1007.4	1011.9	1017.1	1016.4	1035.8	1040.3	1050.8	1082.1	1131.4	1181.4	1238.9
30°	1029.8	1028.3	1032.1	1038.8	1064.2	1067.2	1079.9	1118.0	1177.7	1242.7	1319.6
32.5°	1059.7	1058.2	1062.0	1067.9	1098.5	1106.0	1123.2	1164.3	1239.7	1318.1	1412.2
35°	1106.8	1110.5	1113.5	1121.0	1150.8	1161.3	1184.4	1236.7	1324.1	1449.5	1584.0
37.5°	1270.3	1262.1	1245.7	1215.8	1224.0	1236.0	1268.8	1343.5	1470.5	1683.3	1806.5
40°	1525.7	1516.0	1464.5	1377.1	1337.5	1340.5	1372.6	1474.2	1647.4	1958.1	2071.6
42.5°	1766.2	1754.2	1693.0	1584.0	1505.6	1496.6	1499.6	1616.8	1841.6	2232.9	2293.4
45°	1993.2	1999.2	1905.8	1822.2	1732.6	1691.5	1678.8	1766.2	2057.4	2471.2	2489.8
47.5°	2210.5	2215.0	2109.7	2029.1	1942.4	1894.6	1870.0	1938.0	2256.1	2663.8	2646.7
50°	2432.3	2444.3	2300.2	2231.4	2151.5	2117.2	2093.3	2138.1	2475.7	2848.3	2795.3
52.5°	2745.2	2695.2	2506.3	2409.2	2352.4	2342.0	2317.3	2353.9	2708.7	3011.1	2900.6
55°	3093.3	2986.5	2787.8	2618.3	2539.9	2539.9	2518.2	2560.8	2949.1	3132.8	2986.5
57.5°	3206.0	3216.5	3147.8	2963.3	2752.7	2736.3	2715.4	2773.6	3155.2	3241.9	3018.6
60°	3403.2	3432.3	3485.3	3331.5	3227.7	3088.0	2961.1	2992.4	3333.0	3331.5	3052.9
62.5°	3501.0	3528.6	3694.4	3611.5	3709.4	3719.1	3481.6	3239.6	3464.4	3376.3	3069.4
65°	3408.4	3427.8	3648.9	3757.9	4041.7	4176.9	4059.6	3572.0	3533.9	3357.6	3008.1
67.5°	3104.5	3141.1	3324.0	3656.3	4338.2	4413.6	4303.8	4028.3	3563.7	3363.6	2958.8
69°	2784.8	2785.6	3039.5	3500.3	4396.4	4448.7	4314.3	4049.9	3532.4	3349.4	2853.5
70°	2604.8	2623.5	2811.7	3365.1	4374.8	4391.9	4288.9	4049.2	3510.7	3344.9	2753.5
72.5°	2032.8	2023.1	2210.5	2814.0	4129.8	4167.9	4054.4	3934.9	3492.8	3152.3	2329.3
75°	1421.2	1451.0	1634.8	2132.1	3558.5	3672.8	3672.8	3780.3	3215.0	2693.7	1684.0
77.5°	1057.5	1062.0	1209.1	1628.8	2863.2	2982.0	3091.0	3181.4	2513.0	1845.3	752.8
80°	716.2	722.9	857.3	1201.6	2121.7	2230.7	2403.2	2188.9	1495.1	638.5	85.9
82.5°	451.1	460.0	566.8	843.9	1512.3	1561.6	1614.6	1236.0	498.1	73.9	54.5
85°	268.1	269.6	342.0	539.2	922.3	925.3	868.5	569.1	133.7	44.1	34.4
87.5°	112.0	118.0	149.4	239.0	270.3	213.6	132.9	45.6	20.2	17.9	11.9
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°	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0
2.5°	933.5	941.7	940.2	942.5	945.5	951.4	958.1	955.2	958.9	967.1	967.1
5°	941.7	948.4	950.7	955.2	958.9	964.9	969.3	967.9	976.1	988.0	988.0
7.5°	948.4	953.7	961.1	966.4	970.1	982.0	986.5	983.5	989.5	1003.7	1004.4
10°	958.1	963.4	974.6	979.8	987.3	993.2	999.2	998.5	1004.4	1017.1	1019.4
12.5°	982.0	985.8	1001.5	1008.9	1008.9	1016.4	1011.9	1004.4	1007.4	1014.9	1016.4
15°	1013.4	1018.6	1038.8	1042.5	1038.8	1040.3	1029.8	1005.9	994.0	996.2	997.0
17.5°	1049.3	1058.2	1081.4	1076.1	1071.7	1060.5	1033.6	997.7	961.9	948.4	950.7
20°	1087.3	1098.5	1125.4	1114.2	1097.8	1068.7	1025.4	964.1	908.9	876.7	875.3
22.5°	1131.4	1145.6	1171.0	1151.6	1115.0	1064.2	997.7	923.0	852.8	802.8	799.8
25°	1191.9	1207.6	1216.5	1177.7	1118.0	1047.8	958.1	867.0	778.9	719.2	714.7
27.5°	1260.6	1268.8	1250.9	1192.6	1103.8	1012.7	908.9	796.1	699.0	649.7	643.0
30°	1336.8	1330.1	1274.0	1185.2	1067.2	957.4	831.9	705.7	628.1	588.5	582.5
32.5°	1424.9	1404.0	1292.0	1164.3	1018.6	885.0	748.3	648.2	586.2	546.7	543.7
35°	1569.8	1510.0	1321.1	1132.2	954.4	799.8	671.4	598.9	550.4	501.1	493.6
37.5°	1779.6	1666.9	1363.7	1102.3	885.0	717.7	613.1	559.4	516.8	461.5	451.1
40°	1997.7	1851.3	1433.9	1069.4	820.0	657.2	581.0	542.9	501.1	448.8	434.6
42.5°	2197.1	2026.8	1516.0	1028.3	752.0	608.6	565.3	538.4	496.6	447.3	436.1
45°	2377.8	2191.9	1600.4	981.3	677.4	569.8	552.6	530.2	487.7	440.6	431.7
47.5°	2530.2	2332.3	1685.5	926.8	605.7	545.9	539.2	515.3	475.7	430.2	422.7
50°	2656.4	2433.1	1734.1	869.3	546.7	528.0	519.8	489.9	449.6	407.0	402.5
52.5°	2749.7	2495.8	1778.1	838.7	500.4	498.9	493.6	464.5	425.7	381.6	372.7
55°	2814.7	2547.3	1758.7	814.8	451.1	462.3	459.3	441.4	408.5	357.0	349.5
57.5°	2818.4	2551.8	1716.9	672.9	402.5	418.2	423.4	426.4	389.8	344.3	335.3
60°	2814.7	2519.0	1639.2	493.6	355.5	374.1	393.6	393.6	368.2	323.4	316.6
62.5°	2797.5	2454.0	1458.5	351.7	318.1	342.8	368.2	357.0	335.3	299.5	292.7
65°	2719.1	2345.7	1141.1	286.8	302.5	324.9	336.8	321.1	293.5	256.2	253.2
67.5°	2576.5	2097.8	660.2	262.9	289.0	309.2	318.9	295.0	268.8	233.0	231.5
69°	2419.6	1846.8	371.9	256.9	280.8	298.7	306.9	280.8	255.4	221.1	214.3
70°	2279.2	1622.8	242.0	251.7	272.6	292.0	298.0	271.1	247.2	212.1	207.6
72.5°	1726.6	977.6	162.8	230.0	250.2	265.1	274.1	248.7	221.8	186.7	177.7
75°	943.2	265.9	143.4	197.2	222.5	242.7	245.0	212.8	174.0	138.2	134.4
77.5°	183.7	91.1	123.2	162.8	177.0	200.9	199.4	177.7	150.9	117.2	112.8
80°	69.5	65.7	103.1	116.5	124.7	150.1	159.1	143.4	125.5	79.9	68.7
82.5°	47.0	48.5	76.9	68.7	76.2	88.9	112.0	109.0	99.3	54.5	48.5
85°	32.9	38.1	42.6	29.1	37.3	56.0	73.9	71.7	61.2	38.1	34.4
87.5°	9.7	10.5	11.9	14.9	23.2	41.8	60.5	50.0	33.6	28.4	24.6
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)