

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: P509325

Luminaire Tested: **VERD-CA2-70-750-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-750-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 980mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10649 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

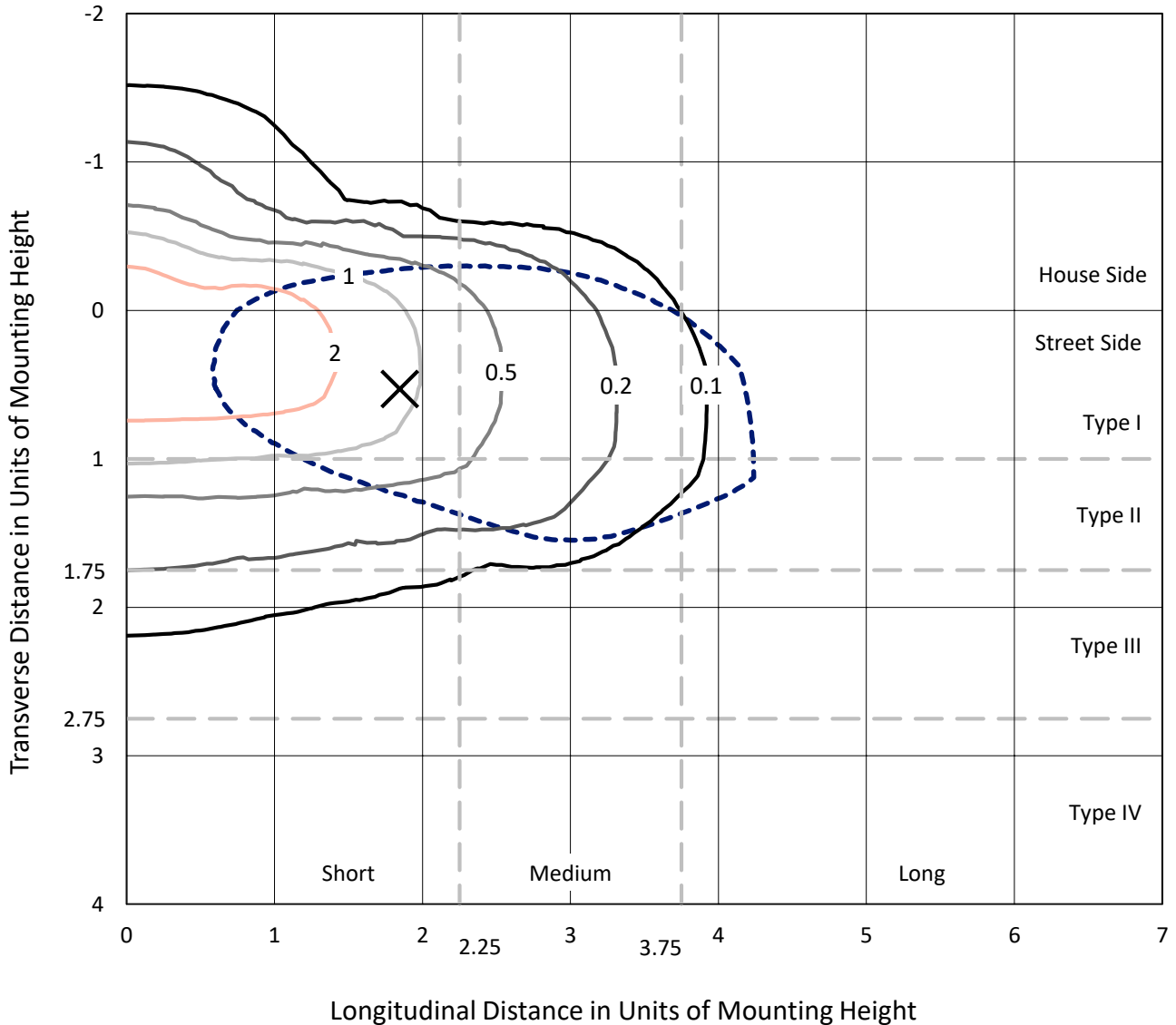
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

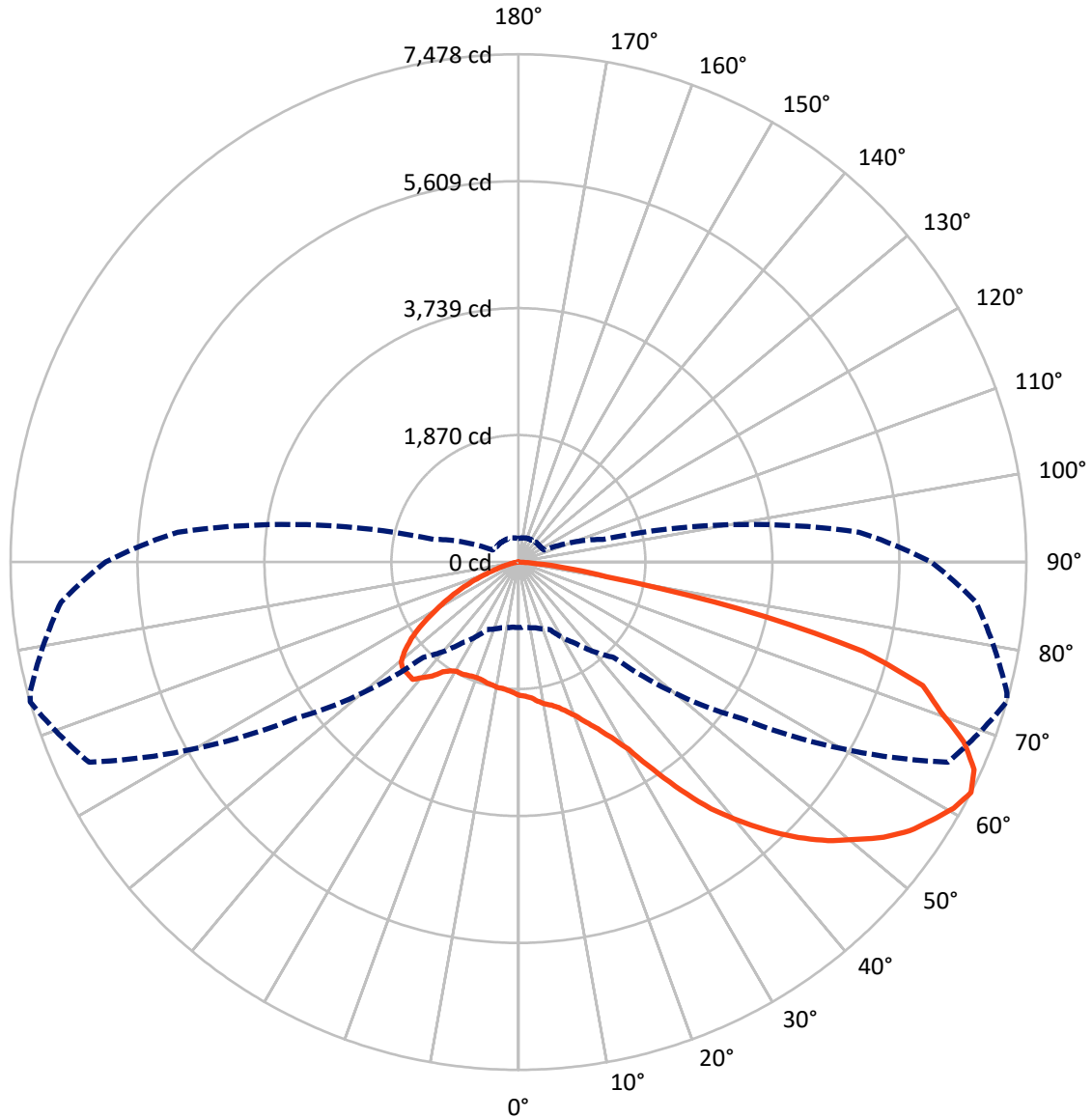
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2749.7	0.0	2749.7
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	7899.3	0.0	7899.3
	% Fixture	74.2	0.0	74.2
Total	Lumens	10649.0	0.0	10649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	1.8
10°-20°	575.3	5.4
20°-30°	970.0	9.1
30°-40°	1417.3	13.3
40°-50°	1887.1	17.7
50°-60°	2171.7	20.4
60°-70°	2098.6	19.7
70°-80°	1208.1	11.3
80°-90°	132.2	1.2
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°	10649.0	100.0
0°-180°	10649.0	100.0

Coefficient of Utilization



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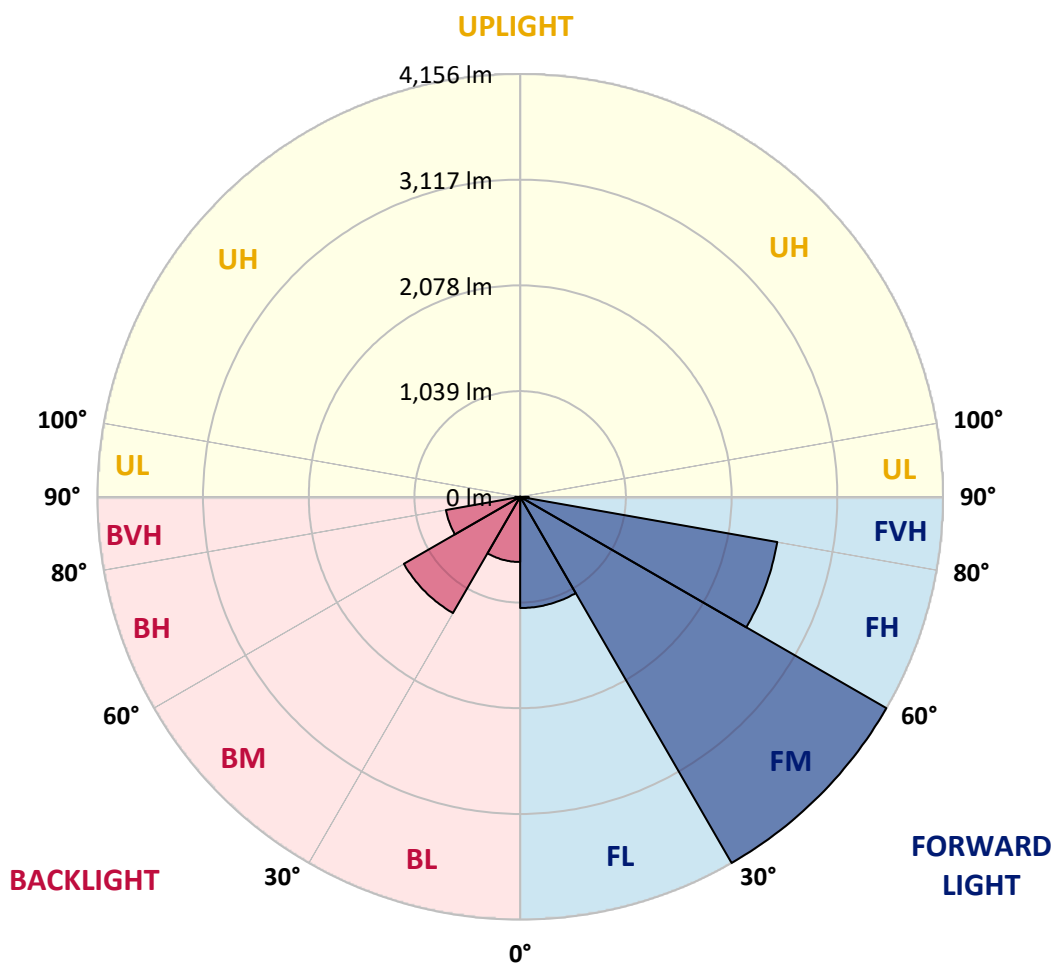
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.9	10.3			
FM (30°-60°)	4156.3	39.0			
FH (60°-80°)	2566.5	24.1			G2/5000
FVH (80°-90°)	83.6	0.8			G1/100
BL (0°-30°)	641.1	6.0	B2/1000		
BM (30°-60°)	1319.8	12.4	B2/2500		
BH (60°-80°)	740.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	48.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6
2.5°	2101.8	2086.7	2077.4	2067.0	2054.2	2049.5	2021.7	1997.3	1977.6	1978.7	1965.9
5°	2178.4	2162.2	2141.3	2137.8	2121.5	2118.1	2091.4	2053.0	2010.1	2004.3	1965.9
7.5°	2264.4	2255.1	2242.3	2226.1	2199.3	2181.9	2143.6	2113.4	2069.3	2063.5	1988.0
10°	2368.9	2361.9	2352.6	2352.6	2317.8	2280.6	2234.2	2158.7	2123.9	2118.1	2026.3
12.5°	2492.0	2471.1	2440.9	2423.5	2390.9	2367.7	2317.8	2237.7	2162.2	2159.9	2062.3
15°	2572.1	2554.7	2534.9	2528.0	2486.2	2447.8	2394.4	2330.6	2224.9	2216.8	2106.4
17.5°	2661.5	2645.3	2622.0	2609.3	2582.5	2538.4	2490.8	2407.2	2313.1	2305.0	2156.4
20°	2711.4	2694.0	2687.1	2689.4	2680.1	2658.0	2601.1	2525.6	2417.7	2407.2	2224.9
22.5°	2767.2	2755.6	2757.9	2775.3	2792.7	2784.6	2740.5	2656.9	2564.0	2547.7	2335.2
25°	2768.3	2759.1	2790.4	2857.8	2894.9	2913.5	2890.3	2821.8	2723.1	2708.0	2475.7
27.5°	2788.1	2774.1	2807.8	2878.7	2991.3	3029.6	3037.7	3012.2	2927.4	2908.9	2644.1
30°	2737.0	2727.7	2778.8	2901.9	3034.3	3162.0	3208.4	3247.9	3200.3	3201.5	2904.2
32.5°	2648.7	2632.5	2710.3	2861.2	3107.4	3281.6	3404.7	3563.8	3636.9	3630.0	3357.1
35°	2480.4	2489.7	2594.2	2825.2	3109.7	3403.5	3645.1	3929.6	4128.1	4123.5	3826.2
37.5°	2360.8	2356.1	2479.2	2724.2	3108.6	3511.5	3878.5	4352.2	4608.9	4601.9	4229.2
40°	2216.8	2217.9	2341.0	2598.8	3054.0	3578.9	4120.0	4752.9	5014.1	5003.7	4614.7
42.5°	2062.3	2067.0	2181.9	2445.5	2978.5	3630.0	4336.0	5158.1	5411.3	5420.6	4923.6
45°	1924.1	1926.5	2040.3	2281.8	2845.0	3635.8	4529.9	5541.3	5787.5	5765.4	5247.5
47.5°	1720.9	1723.2	1891.6	2126.2	2668.5	3588.2	4690.2	5906.0	6131.2	6084.8	5521.6
50°	1348.2	1352.8	1552.5	1964.8	2453.7	3479.0	4816.7	6248.5	6422.7	6403.0	5802.6
52.5°	1244.8	1241.3	1324.9	1772.0	2260.9	3281.6	4896.9	6556.2	6732.7	6730.4	6034.9
55°	1192.6	1189.1	1217.0	1436.4	2071.6	2989.0	4894.5	6795.4	6989.4	6941.8	6247.4
57.5°	1099.7	1092.7	1164.7	1272.7	1860.3	2624.4	4778.4	7010.3	7175.2	7161.2	6439.0
60°	1033.5	1027.7	1076.4	1176.3	1635.0	2253.9	4480.0	7121.8	7362.1	7367.9	6600.4
62.5°	965.0	961.5	1003.3	1096.2	1458.5	1983.4	4020.1	6975.4	7478.2	7446.9	6761.8
65°	887.2	884.8	924.3	999.8	1283.1	1777.8	3569.6	6714.2	7373.7	7409.7	6782.7
67.5°	794.3	793.1	831.4	883.7	1091.5	1571.1	2879.8	6406.4	7075.3	7035.8	6514.4
70°	680.5	675.8	723.4	772.2	913.9	1336.6	2241.2	5859.5	6589.9	6732.7	5980.3
72.5°	572.5	570.2	615.4	651.4	757.1	1091.5	1635.0	5067.6	6226.5	6020.9	5388.1
75°	448.2	436.6	484.2	517.9	596.9	868.6	1114.8	3385.0	5240.6	5197.6	4526.4
77.5°	181.2	210.2	250.8	281.0	333.3	492.4	582.9	1606.0	3343.1	3490.6	3148.1
80°	69.7	74.3	178.8	202.1	224.1	283.3	224.1	677.0	1319.1	1438.7	1823.1
82.5°	39.5	44.1	88.3	84.8	83.6	72.0	83.6	332.1	688.6	754.8	880.2
85°	22.1	24.4	36.0	39.5	33.7	29.0	25.5	87.1	171.9	162.6	182.3
87.5°	3.5	4.6	5.8	5.8	3.5	3.5	3.5	4.6	4.6	4.6	5.8
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°	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6
2.5°	1953.2	1940.4	1927.6	1912.5	1893.9	1882.3	1877.7	1883.5	1899.8	1880.0	1863.8
5°	1946.2	1928.8	1899.8	1870.7	1847.5	1827.8	1801.0	1798.7	1803.4	1795.2	1774.3
7.5°	1961.3	1935.8	1876.5	1856.8	1808.0	1761.6	1746.5	1740.7	1726.7	1710.5	1690.7
10°	1991.5	1939.2	1878.9	1820.8	1775.5	1725.6	1667.5	1668.7	1662.9	1644.3	1625.7
12.5°	2006.6	1945.0	1856.8	1795.2	1725.6	1664.0	1607.1	1581.6	1592.0	1576.9	1557.2
15°	2034.5	1969.4	1848.7	1758.1	1662.9	1593.2	1550.2	1513.1	1489.8	1493.3	1481.7
17.5°	2086.7	1991.5	1827.8	1717.4	1614.1	1531.6	1449.2	1445.7	1410.9	1391.1	1373.7
20°	2141.3	2031.0	1825.4	1673.3	1535.1	1432.9	1366.8	1329.6	1308.7	1292.4	1279.7
22.5°	2212.1	2085.5	1833.6	1647.8	1464.3	1349.3	1264.6	1214.6	1181.0	1169.3	1160.1
25°	2312.0	2154.1	1855.6	1602.5	1390.0	1257.6	1142.6	1090.4	1052.1	1042.8	1035.8
27.5°	2449.0	2241.2	1877.7	1553.7	1302.9	1128.7	1006.8	955.7	912.7	911.6	898.8
30°	2665.0	2374.7	1885.8	1510.7	1210.0	990.5	868.6	821.0	788.5	775.7	785.0
32.5°	3067.9	2669.6	1936.9	1444.6	1092.7	855.8	752.5	714.1	678.2	664.2	673.5
35°	3503.4	3022.7	2022.8	1399.3	963.8	728.1	657.2	612.0	567.8	560.9	557.4
37.5°	3822.7	3344.3	2185.4	1324.9	841.9	650.3	557.4	520.2	494.7	480.7	493.5
40°	4185.0	3611.4	2308.5	1246.0	717.6	567.8	464.5	452.9	441.3	432.0	445.9
42.5°	4471.9	3886.6	2454.8	1141.5	617.8	481.9	413.4	422.7	428.5	423.8	425.0
45°	4735.4	4091.0	2464.1	982.4	527.2	418.0	398.3	416.9	430.8	428.5	427.3
47.5°	4993.2	4334.8	2486.2	814.0	462.2	401.8	399.5	413.4	432.0	435.5	435.5
50°	5259.2	4520.6	2452.5	654.9	437.8	404.1	402.9	401.8	425.0	426.2	429.7
52.5°	5458.9	4671.6	2293.4	541.1	436.6	411.1	408.7	397.1	407.6	415.7	409.9
55°	5670.2	4859.7	2092.5	498.2	434.3	413.4	422.7	402.9	396.0	389.0	396.0
57.5°	5871.1	4990.9	1828.9	472.6	425.0	409.9	428.5	401.8	386.7	366.9	360.0
60°	6025.6	5021.1	1535.1	445.9	413.4	401.8	402.9	393.7	373.9	349.5	339.1
62.5°	6077.8	5038.5	1291.3	420.4	390.2	389.0	379.7	376.2	368.1	353.0	348.4
65°	6033.7	4841.1	1031.2	389.0	370.4	371.6	357.7	346.0	327.5	303.1	300.8
67.5°	5730.6	4493.9	790.8	349.5	340.2	351.8	336.8	317.0	296.1	279.9	282.2
70°	5211.5	4082.8	555.1	294.9	305.4	326.3	320.5	294.9	271.7	257.8	260.1
72.5°	4634.4	3459.3	377.4	229.9	248.5	292.6	292.6	275.2	252.0	233.4	228.8
75°	3655.5	2717.3	243.9	152.1	163.7	239.2	259.0	232.2	206.7	195.1	190.4
77.5°	2481.5	1769.7	155.6	87.1	109.2	156.8	204.4	207.9	245.0	246.2	235.7
80°	1458.5	1012.6	95.2	51.1	54.6	90.6	163.7	205.5	260.1	183.5	168.4
82.5°	725.8	432.0	43.0	31.4	32.5	45.3	88.3	235.7	200.9	115.0	110.3
85°	161.4	70.8	17.4	16.3	18.6	23.2	45.3	195.1	123.1	92.9	90.6
87.5°	5.8	4.6	4.6	4.6	3.5	3.5	9.3	63.9	48.8	40.6	38.3
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)