

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: P507602

Luminaire Tested: **VERD-S-CA1-50-750-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-750-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 940mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7027 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

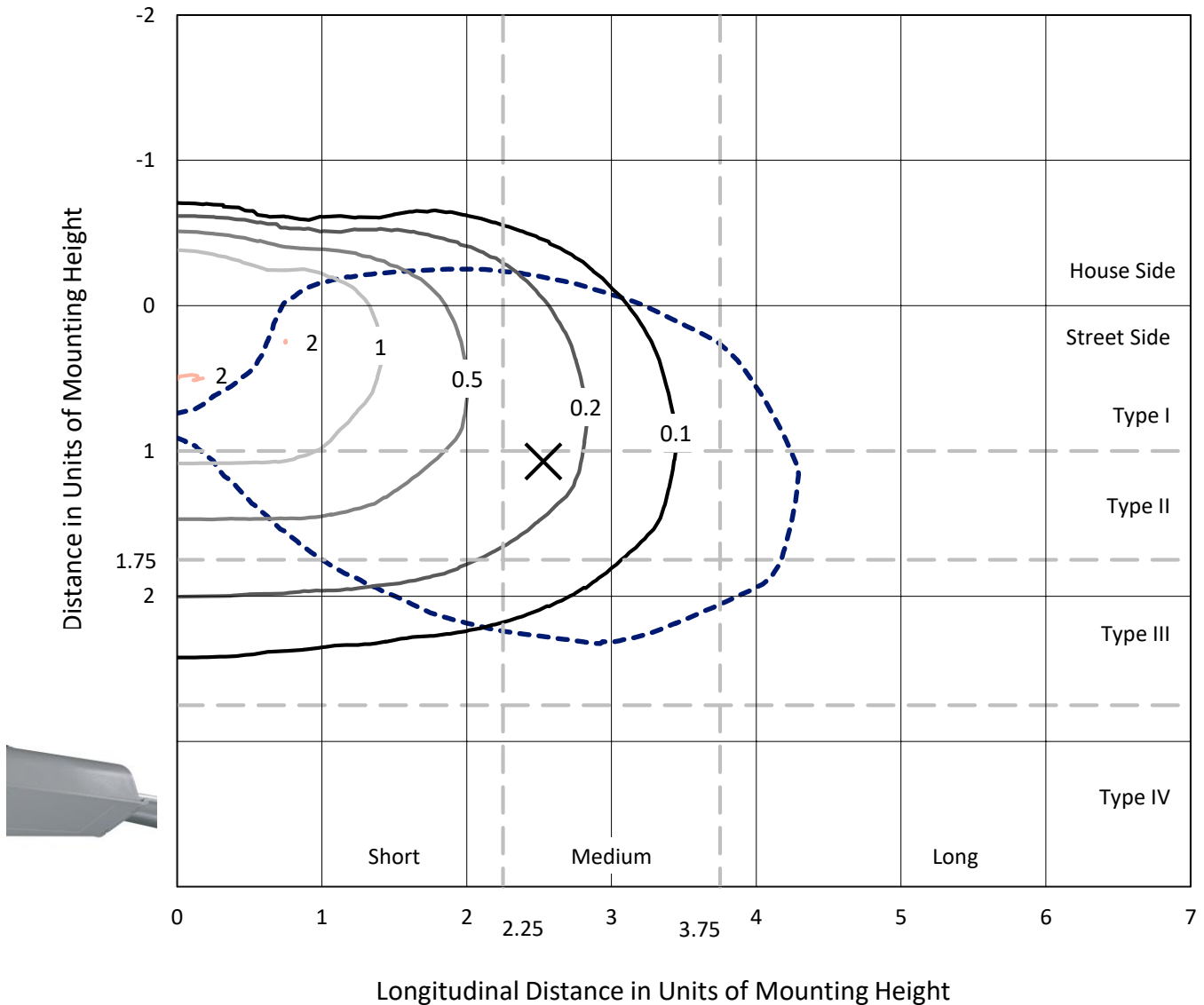
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

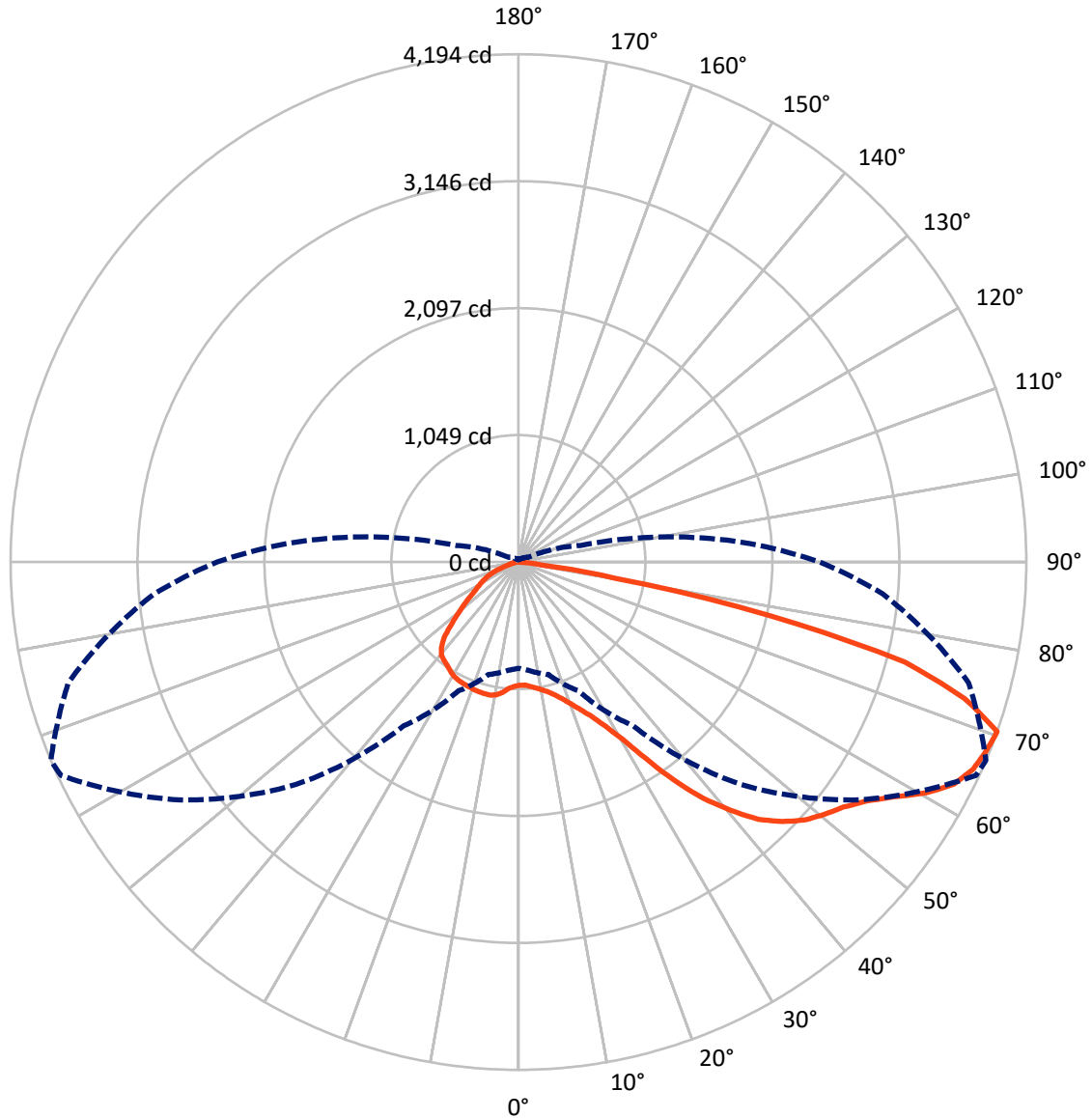
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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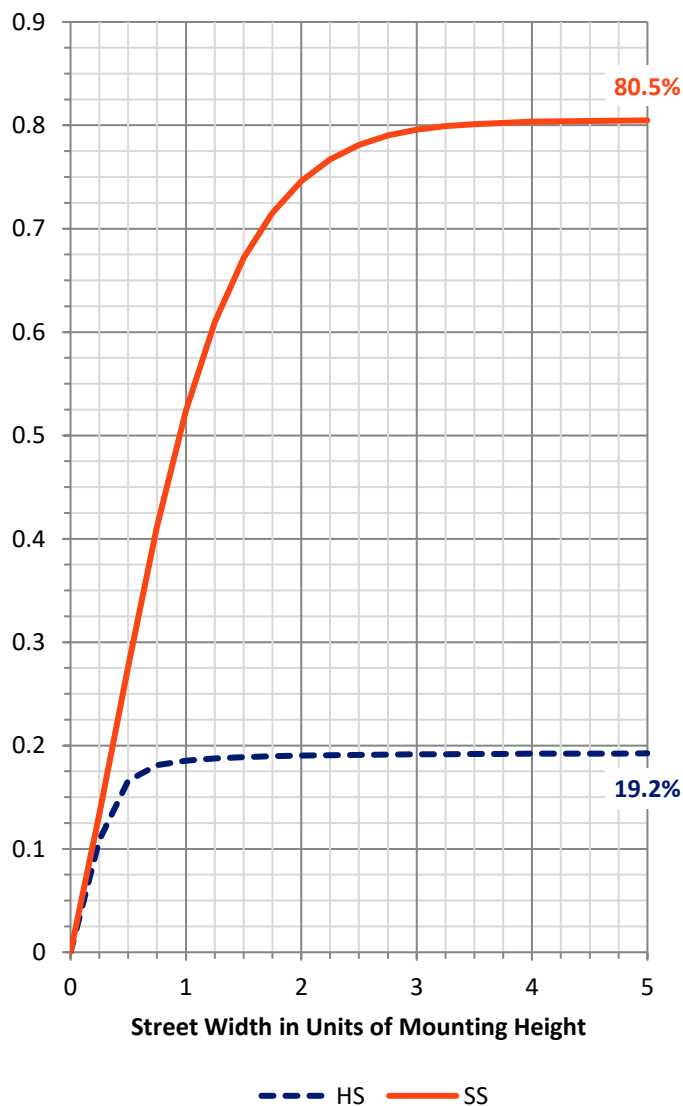
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1369.4	0.0	1369.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5657.6	0.0	5657.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	7027.0	0.0	7027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.5
10°-20°	324.4	4.6
20°-30°	563.7	8.0
30°-40°	882.8	12.6
40°-50°	1242.1	17.7
50°-60°	1481.4	21.1
60°-70°	1535.0	21.8
70°-80°	847.0	12.1
80°-90°	48.2	0.7
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°	7027.0	100.0
0°-180°	7027.0	100.0

Coefficient of Utilization



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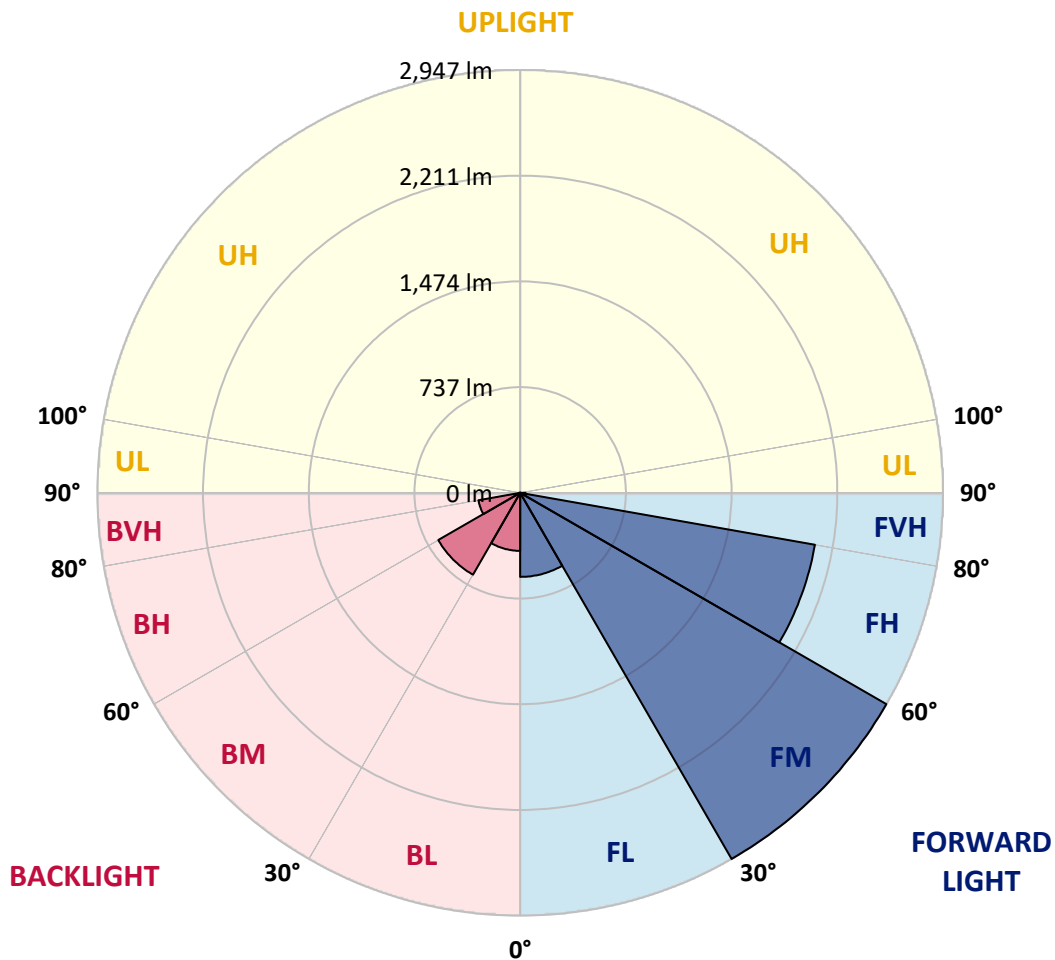
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.2	8.3			
FM (30°-60°)	2947.5	41.9			
FH (60°-80°)	2086.4	29.7			G2/5000
FVH (80°-90°)	37.5	0.5			G1/100
BL (0°-30°)	404.4	5.8	B1/500		
BM (30°-60°)	658.7	9.4	B1/1000		
BH (60°-80°)	295.6	4.2	B1/500		G1/500
BVH (80°-90°)	10.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6
2.5°	1024.0	1024.0	1024.0	1021.9	1021.9	1021.9	1019.8	1017.6	1017.6	1017.6	1019.8
5°	1051.8	1051.8	1049.6	1047.5	1045.4	1039.0	1034.7	1032.6	1032.6	1030.4	1034.7
7.5°	1085.9	1085.9	1085.9	1081.6	1075.2	1066.7	1058.2	1051.8	1049.6	1047.5	1049.6
10°	1137.1	1137.1	1132.8	1126.4	1115.8	1103.0	1088.0	1075.2	1073.1	1068.8	1073.1
12.5°	1203.2	1196.8	1192.6	1181.9	1169.1	1147.8	1124.3	1105.1	1100.8	1096.6	1111.5
15°	1271.5	1269.4	1258.7	1252.3	1231.0	1203.2	1171.2	1145.6	1141.4	1132.8	1145.6
17.5°	1352.6	1354.7	1350.4	1339.8	1309.9	1269.4	1231.0	1194.7	1190.4	1184.0	1190.4
20°	1463.5	1459.2	1450.7	1435.8	1401.6	1348.3	1299.2	1258.7	1252.3	1248.0	1241.6
22.5°	1574.4	1576.6	1559.5	1544.6	1501.9	1450.7	1384.6	1335.5	1327.0	1324.8	1295.0
25°	1681.1	1685.4	1679.0	1659.8	1623.5	1557.4	1484.8	1425.1	1414.4	1412.3	1361.1
27.5°	1792.1	1794.2	1800.6	1792.1	1753.7	1685.4	1604.3	1536.0	1536.0	1519.0	1442.2
30°	1898.7	1903.0	1907.3	1907.3	1888.1	1828.3	1757.9	1698.2	1698.2	1685.4	1553.1
32.5°	1981.9	1984.1	2009.7	2031.0	2031.0	1988.3	1941.4	1935.0	1932.9	1956.3	1807.0
35°	2056.6	2063.0	2099.3	2156.9	2180.3	2163.3	2165.4	2188.9	2212.3	2269.9	2156.9
37.5°	2112.1	2120.6	2154.7	2220.9	2287.0	2331.8	2374.5	2438.5	2474.7	2562.2	2406.5
40°	2127.0	2137.7	2210.2	2304.1	2410.7	2513.1	2589.9	2668.9	2692.3	2754.2	2557.9
42.5°	2080.1	2090.7	2182.5	2372.3	2521.7	2681.7	2764.9	2865.2	2905.7	2882.2	2683.8
45°	2048.1	2054.5	2150.5	2365.9	2617.7	2846.0	2927.0	3031.6	3057.2	3001.7	2788.3
47.5°	2007.5	2013.9	2114.2	2357.4	2696.6	2986.8	3042.2	3157.4	3183.0	3097.7	2878.0
50°	1947.8	1952.1	2067.3	2340.3	2747.8	3087.0	3148.9	3264.1	3274.8	3187.3	2963.3
52.5°	1875.3	1888.1	1999.0	2299.8	2784.1	3148.9	3223.6	3347.3	3362.2	3302.5	3057.2
55°	1777.1	1792.1	1920.1	2240.1	2771.3	3170.2	3257.7	3458.2	3483.8	3434.8	3136.1
57.5°	1676.8	1698.2	1824.1	2156.9	2720.1	3202.2	3370.8	3622.5	3656.6	3564.9	3200.1
60°	1574.4	1583.0	1713.1	2043.8	2634.7	3234.2	3498.8	3838.0	3870.0	3692.9	3251.3
62.5°	1457.1	1467.8	1583.0	1888.1	2487.5	3204.4	3594.8	4019.3	4038.5	3799.6	3272.6
65°	1320.6	1320.6	1418.7	1698.2	2289.1	3097.7	3607.6	4113.2	4126.0	3867.8	3247.0
67.5°	1130.7	1139.2	1218.2	1463.5	2022.5	2888.6	3535.0	4134.5	4166.5	3910.5	3176.6
70°	876.8	896.0	962.2	1173.4	1651.2	2598.5	3426.2	4168.7	4194.3	3848.6	3018.8
72.5°	599.5	618.7	678.4	804.3	1190.4	2084.3	3099.8	3846.5	3852.9	3547.8	2711.5
75°	157.9	174.9	221.9	322.1	499.2	1401.6	2479.0	3257.7	3296.1	3067.8	2237.9
77.5°	46.9	46.9	57.6	74.7	102.4	285.9	1260.8	2075.8	2114.2	2022.5	1395.2
80°	36.3	36.3	42.7	51.2	66.1	147.2	437.3	765.9	812.8	868.3	576.0
82.5°	23.5	25.6	27.7	29.9	29.9	59.7	117.3	196.3	194.1	211.2	185.6
85°	14.9	14.9	12.8	12.8	10.7	14.9	10.7	12.8	14.9	14.9	17.1
87.5°	2.1	0.0	0.0	0.0	0.0	2.1	2.1	4.3	4.3	4.3	6.4
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°	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6
2.5°	1021.9	1024.0	1026.2	1028.3	1032.6	1032.6	1034.7	1034.7	1034.7	1034.7	1034.7
5°	1034.7	1036.8	1043.2	1049.6	1064.6	1073.1	1081.6	1088.0	1088.0	1092.3	1092.3
7.5°	1053.9	1060.3	1079.5	1088.0	1100.8	1113.6	1120.0	1122.2	1126.4	1126.4	1126.4
10°	1085.9	1092.3	1107.2	1113.6	1120.0	1120.0	1117.9	1115.8	1109.4	1107.2	1109.4
12.5°	1115.8	1124.3	1124.3	1122.2	1115.8	1107.2	1096.6	1085.9	1075.2	1066.7	1066.7
15°	1152.0	1147.8	1135.0	1117.9	1100.8	1079.5	1058.2	1039.0	1021.9	1015.5	1015.5
17.5°	1184.0	1173.4	1145.6	1113.6	1077.4	1043.2	1009.1	977.1	947.2	936.6	930.2
20°	1222.4	1203.2	1154.2	1105.1	1053.9	1000.6	943.0	885.4	834.2	812.8	810.7
22.5°	1267.2	1235.2	1167.0	1092.3	1024.0	943.0	847.0	765.9	714.7	689.1	684.8
25°	1320.6	1273.6	1179.8	1081.6	987.8	868.3	740.3	648.6	584.6	556.8	546.1
27.5°	1386.7	1324.8	1196.8	1068.8	932.3	776.6	631.5	524.8	454.4	420.3	416.0
30°	1472.0	1386.7	1213.9	1049.6	864.0	669.9	514.1	394.7	324.3	290.1	281.6
32.5°	1668.3	1512.6	1235.2	1017.6	778.7	567.5	388.3	264.5	194.1	162.1	160.0
35°	2001.1	1796.3	1284.3	975.0	693.4	445.9	249.6	140.8	104.5	91.7	91.7
37.5°	2250.7	2033.1	1416.6	919.5	582.4	298.7	128.0	83.2	66.1	64.0	64.0
40°	2400.1	2173.9	1561.6	857.6	450.1	160.0	78.9	64.0	59.7	57.6	57.6
42.5°	2523.8	2291.3	1629.9	780.8	285.9	89.6	66.1	59.7	55.5	53.3	53.3
45°	2626.2	2380.9	1638.4	682.7	160.0	74.7	61.9	53.3	51.2	49.1	49.1
47.5°	2707.3	2457.7	1617.1	544.0	100.3	70.4	57.6	49.1	44.8	44.8	44.8
50°	2784.1	2523.8	1557.4	428.8	93.9	66.1	53.3	44.8	42.7	42.7	42.7
52.5°	2854.5	2570.7	1457.1	345.6	87.5	61.9	51.2	42.7	38.4	40.5	40.5
55°	2912.1	2589.9	1354.7	266.7	83.2	59.7	49.1	40.5	36.3	36.3	36.3
57.5°	2944.1	2549.4	1269.4	202.7	81.1	57.6	46.9	38.4	32.0	29.9	29.9
60°	2946.2	2496.1	1190.4	170.7	76.8	53.3	44.8	34.1	27.7	25.6	25.6
62.5°	2907.8	2432.1	1071.0	147.2	72.5	51.2	40.5	32.0	25.6	23.5	23.5
65°	2833.2	2319.0	938.7	125.9	70.4	51.2	36.3	29.9	25.6	21.3	21.3
67.5°	2713.7	2131.3	761.6	110.9	66.1	46.9	36.3	27.7	23.5	21.3	21.3
70°	2487.5	1862.5	526.9	96.0	61.9	42.7	34.1	27.7	23.5	19.2	19.2
72.5°	2144.1	1512.6	260.3	78.9	53.3	42.7	34.1	25.6	21.3	19.2	19.2
75°	1657.6	1083.8	157.9	64.0	42.7	38.4	32.0	25.6	21.3	17.1	17.1
77.5°	975.0	482.1	113.1	49.1	32.0	29.9	27.7	23.5	19.2	17.1	17.1
80°	356.3	204.8	83.2	38.4	25.6	25.6	21.3	19.2	17.1	14.9	14.9
82.5°	138.7	108.8	55.5	27.7	21.3	19.2	17.1	14.9	12.8	12.8	12.8
85°	19.2	19.2	19.2	14.9	12.8	12.8	10.7	10.7	8.5	8.5	8.5
87.5°	6.4	6.4	6.4	8.5	6.4	6.4	4.3	4.3	4.3	6.4	6.4
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)