

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: P691433

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-7050-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-12)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T3-7050-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5679 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

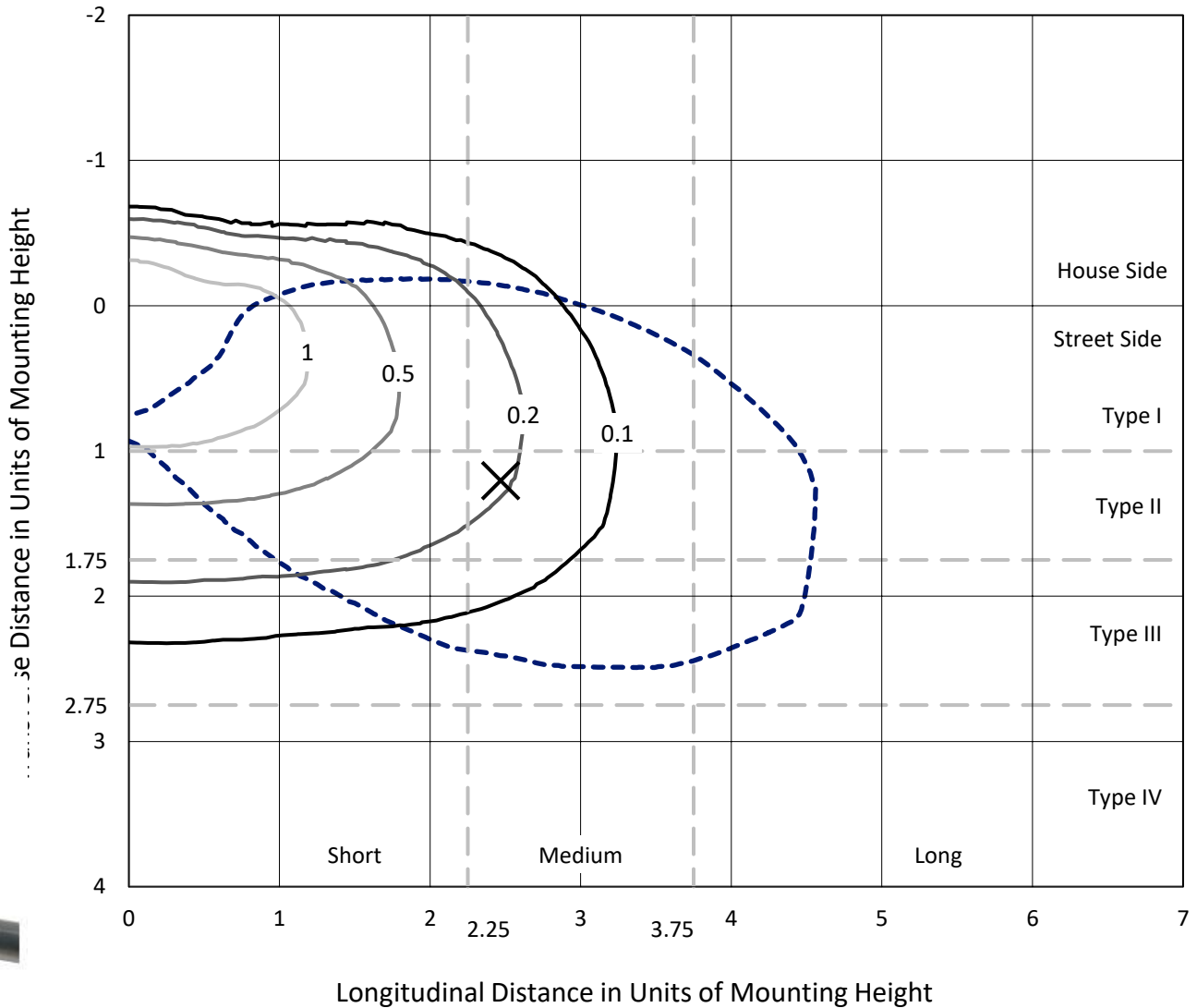
Input Watts (W): 42.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

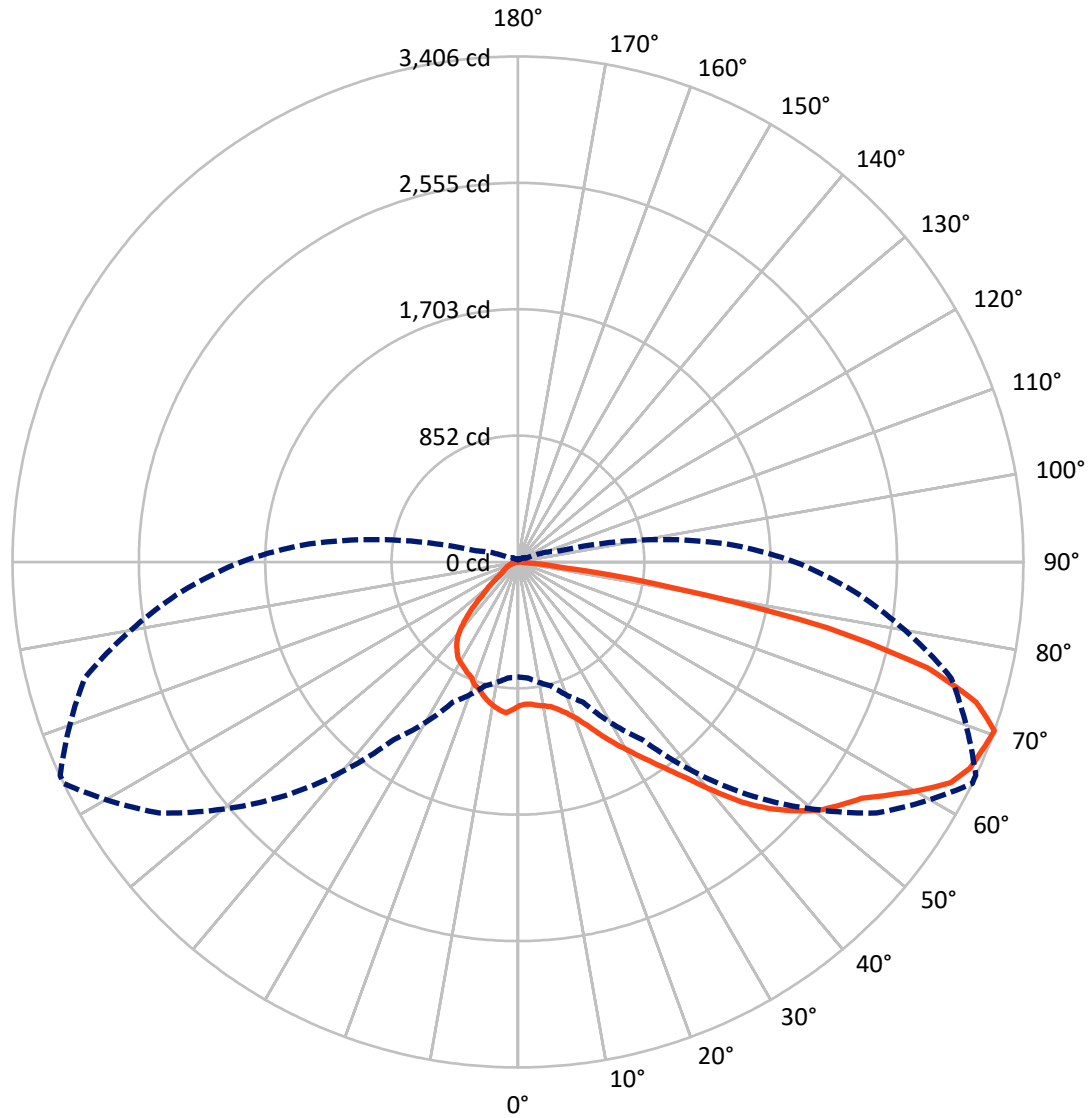
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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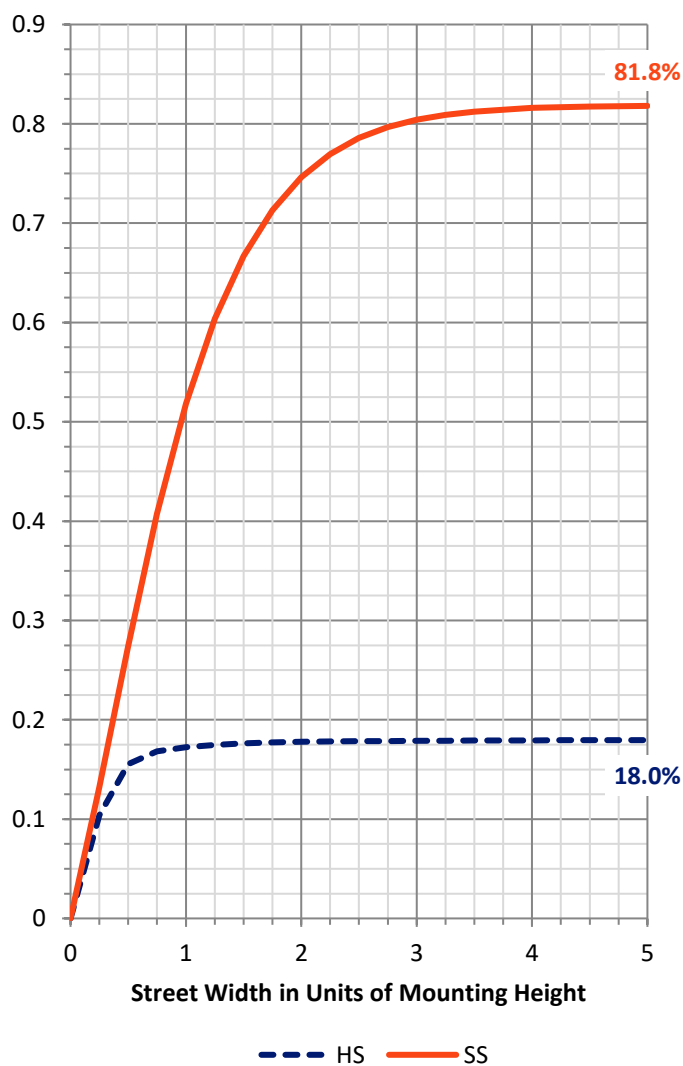
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.1	0.0	1032.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	4646.9	0.0	4646.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	5679.0	0.0	5679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	1.7
10°-20°	279.6	4.9
20°-30°	471.0	8.3
30°-40°	693.2	12.2
40°-50°	950.6	16.7
50°-60°	1156.7	20.4
60°-70°	1228.1	21.6
70°-80°	752.8	13.3
80°-90°	52.5	0.9
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°	5679.0	100.0
0°-180°	5679.0	100.0

Coefficient of Utilization



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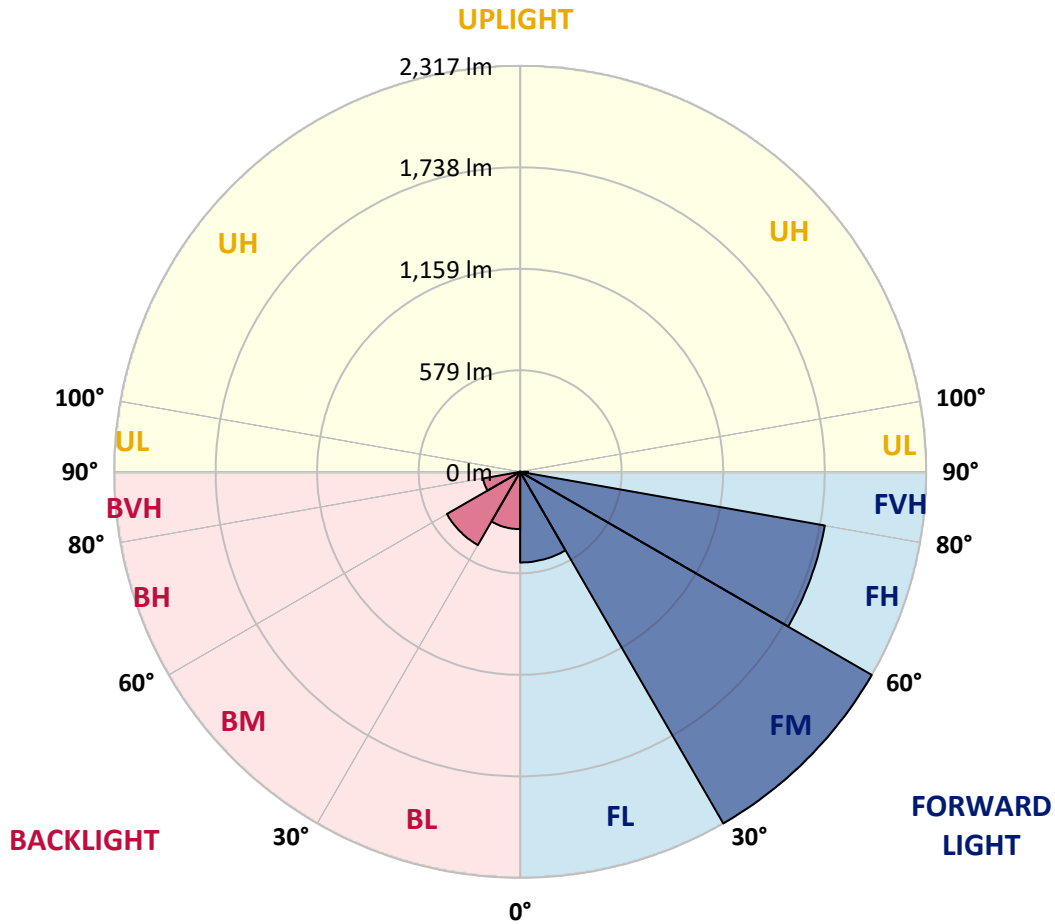
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.7	9.1			
FM (30°-60°)	2317.4	40.8			
FH (60°-80°)	1766.0	31.1			G1/1800
FVH (80°-90°)	45.8	0.8			G1/100
BL (0°-30°)	327.4	5.8	B1/500		
BM (30°-60°)	483.1	8.5	B1/1000		
BH (60°-80°)	214.9	3.8	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	969.7	969.7	969.7	969.7	969.7	969.7	969.7	969.7	969.7	969.7	969.7
2.5°	959.3	959.3	961.4	959.3	963.4	957.2	959.3	959.3	959.3	961.4	967.6
5°	988.4	988.4	984.3	978.0	971.8	963.4	963.4	963.4	963.4	967.6	982.2
7.5°	1007.1	1005.1	1005.1	1005.1	998.8	982.2	978.0	975.9	975.9	975.9	990.5
10°	1052.9	1046.7	1038.4	1025.9	1019.6	1005.1	988.4	986.3	986.3	988.4	1007.1
12.5°	1096.6	1090.4	1090.4	1082.1	1057.1	1040.4	1011.3	1000.9	1000.9	1005.1	1015.5
15°	1169.5	1163.2	1146.6	1132.0	1109.1	1080.0	1050.8	1032.1	1030.0	1038.4	1023.8
17.5°	1221.5	1211.1	1213.2	1190.3	1171.5	1129.9	1100.8	1071.7	1071.7	1080.0	1050.8
20°	1271.4	1271.4	1273.5	1271.4	1240.2	1206.9	1159.1	1123.7	1125.8	1127.8	1082.1
22.5°	1346.3	1344.2	1344.2	1346.3	1325.5	1288.1	1236.0	1196.5	1194.4	1177.8	1121.6
25°	1433.7	1429.6	1421.2	1429.6	1419.2	1375.5	1325.5	1286.0	1279.7	1256.9	1179.9
27.5°	1506.6	1506.6	1506.6	1510.7	1510.7	1479.5	1423.3	1381.7	1385.9	1354.7	1248.5
30°	1558.6	1558.6	1577.3	1585.6	1591.9	1581.5	1521.1	1477.4	1485.7	1448.3	1333.8
32.5°	1614.8	1612.7	1637.7	1656.4	1664.7	1668.9	1618.9	1583.6	1585.6	1552.3	1431.6
35°	1666.8	1662.6	1695.9	1735.5	1756.3	1752.1	1716.7	1704.2	1708.4	1698.0	1564.8
37.5°	1704.2	1710.5	1754.2	1806.2	1839.5	1847.8	1824.9	1847.8	1870.7	1885.3	1737.5
40°	1745.9	1745.9	1787.5	1843.7	1895.7	1926.9	1943.5	2026.8	2045.5	2055.9	1839.5
42.5°	1704.2	1718.8	1806.2	1887.4	1956.0	2003.9	2072.6	2212.0	2232.8	2168.3	1974.8
45°	1668.9	1681.4	1768.7	1906.1	2006.0	2099.6	2224.5	2370.1	2390.9	2280.6	2051.7
47.5°	1633.5	1648.1	1739.6	1891.5	2051.7	2205.7	2347.2	2505.4	2515.8	2378.4	2153.7
50°	1594.0	1608.5	1704.2	1872.8	2078.8	2320.2	2467.9	2630.2	2632.3	2463.8	2205.7
52.5°	1544.0	1562.7	1658.5	1845.7	2101.7	2397.2	2576.1	2721.8	2709.3	2567.8	2268.2
55°	1481.6	1502.4	1608.5	1810.4	2114.2	2447.1	2646.9	2811.3	2802.9	2688.5	2349.3
57.5°	1410.8	1433.7	1544.0	1756.3	2110.0	2472.1	2719.7	2959.0	2963.2	2788.4	2409.7
60°	1329.7	1350.5	1454.5	1685.5	2055.9	2517.9	2875.8	3121.3	3135.9	2898.7	2434.6
62.5°	1223.6	1242.3	1342.2	1581.5	1987.2	2551.2	2994.4	3275.3	3269.1	2973.6	2443.0
65°	1090.4	1111.2	1204.8	1444.1	1879.0	2530.4	3031.8	3348.1	3348.1	3027.7	2436.7
67.5°	955.1	973.9	1052.9	1269.3	1704.2	2426.3	3009.0	3377.3	3396.0	3063.1	2380.5
70°	774.1	784.5	863.6	1042.5	1460.8	2230.7	2950.7	3406.4	3404.3	3023.5	2274.4
72.5°	568.1	580.6	645.1	782.4	1129.9	1931.1	2767.6	3229.5	3196.2	2811.3	2068.4
75°	293.4	305.9	355.8	491.1	720.0	1363.0	2359.7	2852.9	2846.6	2488.7	1712.6
77.5°	39.5	39.5	45.8	81.2	166.5	543.1	1546.1	2137.1	2124.6	1897.8	1244.4
80°	27.1	27.1	31.2	37.5	47.9	118.6	545.2	1084.1	1102.9	978.0	557.7
82.5°	20.8	18.7	22.9	27.1	29.1	54.1	166.5	299.6	303.8	272.6	170.6
85°	12.5	12.5	12.5	12.5	10.4	14.6	37.5	49.9	56.2	54.1	43.7
87.5°	6.2	6.2	6.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	969.7	969.7	969.7	969.7	969.7	969.7	969.7	969.7	969.7	969.7	969.7
2.5°	969.7	975.9	984.3	994.7	1005.1	1013.4	1021.7	1025.9	1030.0	1032.1	1034.2
5°	986.3	994.7	1005.1	1019.6	1019.6	1013.4	1009.2	1009.2	1013.4	1019.6	1021.7
7.5°	1003.0	1011.3	1007.1	1005.1	1007.1	998.8	988.4	982.2	978.0	978.0	982.2
10°	1009.2	1000.9	996.7	986.3	965.5	961.4	953.0	936.4	932.2	936.4	921.8
12.5°	1005.1	998.8	978.0	961.4	940.6	905.2	884.4	884.4	874.0	871.9	874.0
15°	1015.5	994.7	969.7	934.3	896.9	867.7	834.4	805.3	797.0	799.1	799.1
17.5°	1023.8	1003.0	953.0	898.9	865.6	813.6	776.2	759.5	745.0	742.9	742.9
20°	1042.5	1013.4	942.6	884.4	801.1	761.6	720.0	699.2	676.3	645.1	634.7
22.5°	1071.7	1032.1	936.4	844.8	772.0	709.6	649.2	586.8	549.4	524.4	530.6
25°	1111.2	1067.5	942.6	830.3	728.3	649.2	570.2	484.8	428.7	412.0	422.4
27.5°	1181.9	1107.0	961.4	809.5	697.1	578.5	459.9	385.0	332.9	316.3	322.5
30°	1246.4	1167.4	963.4	797.0	647.2	495.2	362.1	278.8	237.2	212.2	206.0
32.5°	1363.0	1231.9	1015.5	780.3	595.1	403.7	266.4	185.2	147.7	133.2	129.0
35°	1477.4	1346.3	1030.0	749.1	499.4	299.6	164.4	110.3	89.5	79.1	77.0
37.5°	1635.6	1485.7	1090.4	715.8	403.7	183.1	99.9	66.6	62.4	60.3	60.3
40°	1714.6	1558.6	1140.3	668.0	283.0	104.0	64.5	58.3	56.2	54.1	54.1
42.5°	1827.0	1641.8	1181.9	582.6	166.5	68.7	58.3	54.1	52.0	49.9	49.9
45°	1889.4	1685.5	1171.5	478.6	83.2	64.5	56.2	52.0	47.9	47.9	47.9
47.5°	1972.7	1750.0	1144.5	353.7	74.9	62.4	54.1	49.9	47.9	49.9	47.9
50°	2051.7	1812.4	1069.6	280.9	72.8	60.3	54.1	47.9	47.9	47.9	47.9
52.5°	2095.4	1870.7	975.9	206.0	74.9	60.3	52.0	47.9	47.9	45.8	47.9
55°	2137.1	1879.0	901.0	149.8	74.9	58.3	49.9	45.8	43.7	41.6	41.6
57.5°	2166.2	1860.3	840.7	124.9	74.9	58.3	47.9	43.7	37.5	35.4	35.4
60°	2157.9	1814.5	790.7	114.4	70.7	54.1	43.7	37.5	33.3	29.1	29.1
62.5°	2135.0	1787.5	699.2	99.9	64.5	49.9	39.5	31.2	27.1	25.0	25.0
65°	2114.2	1702.2	593.1	89.5	60.3	43.7	33.3	27.1	22.9	20.8	20.8
67.5°	2014.3	1589.8	441.1	77.0	54.1	39.5	29.1	25.0	20.8	18.7	16.6
70°	1866.6	1408.8	289.2	66.6	47.9	33.3	25.0	20.8	16.6	14.6	14.6
72.5°	1614.8	1163.2	149.8	54.1	39.5	29.1	22.9	18.7	14.6	12.5	12.5
75°	1311.0	855.2	89.5	41.6	31.2	25.0	18.7	14.6	12.5	10.4	10.4
77.5°	907.3	472.4	64.5	31.2	20.8	18.7	14.6	12.5	10.4	8.3	8.3
80°	305.9	129.0	45.8	22.9	14.6	14.6	10.4	8.3	8.3	6.2	6.2
82.5°	120.7	79.1	31.2	16.6	12.5	10.4	8.3	6.2	6.2	6.2	6.2
85°	33.3	22.9	12.5	8.3	6.2	6.2	6.2	4.2	4.2	4.2	4.2
87.5°	2.1	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
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)