

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: P480764

Luminaire Tested: **IFLD-S-SA2A-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480764  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

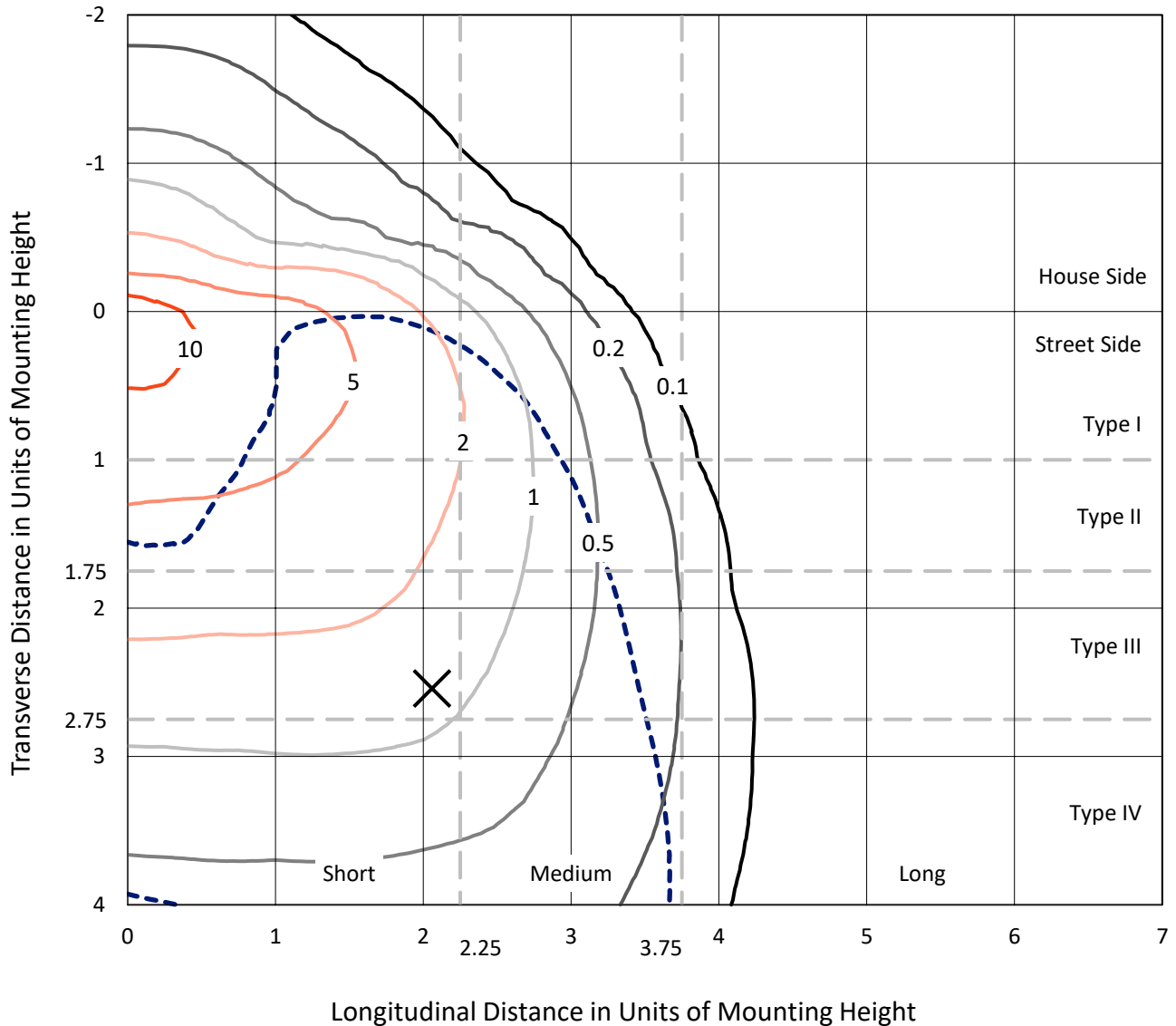
Lumens per Lamp: N/A  
Luminaire Lumens: 7468.3 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 63.8  
Input Voltage (V): 120  
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

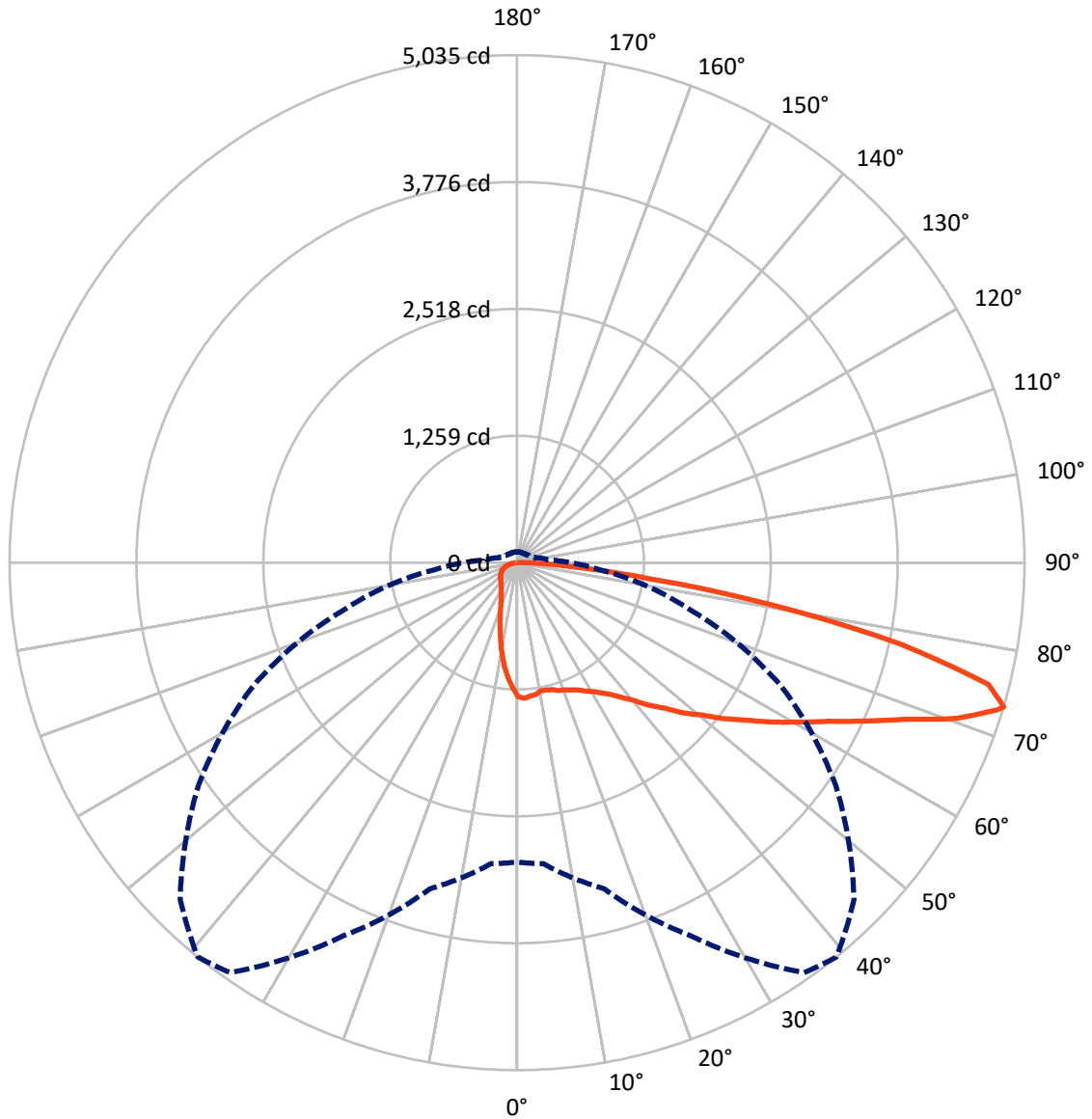
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1049.8	0.0	1049.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	6418.4	0.0	6418.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	7468.3	0.0	7468.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	1.5
10°-20°	293.4	3.9
20°-30°	448.3	6.0
30°-40°	653.6	8.8
40°-50°	987.7	13.2
50°-60°	1430.3	19.2
60°-70°	1817.2	24.3
70°-80°	1473.1	19.7
80°-90°	249.2	3.3
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°	7468.3	100.0
0°-180°	7468.3	100.0

**Coefficient of Utilization**



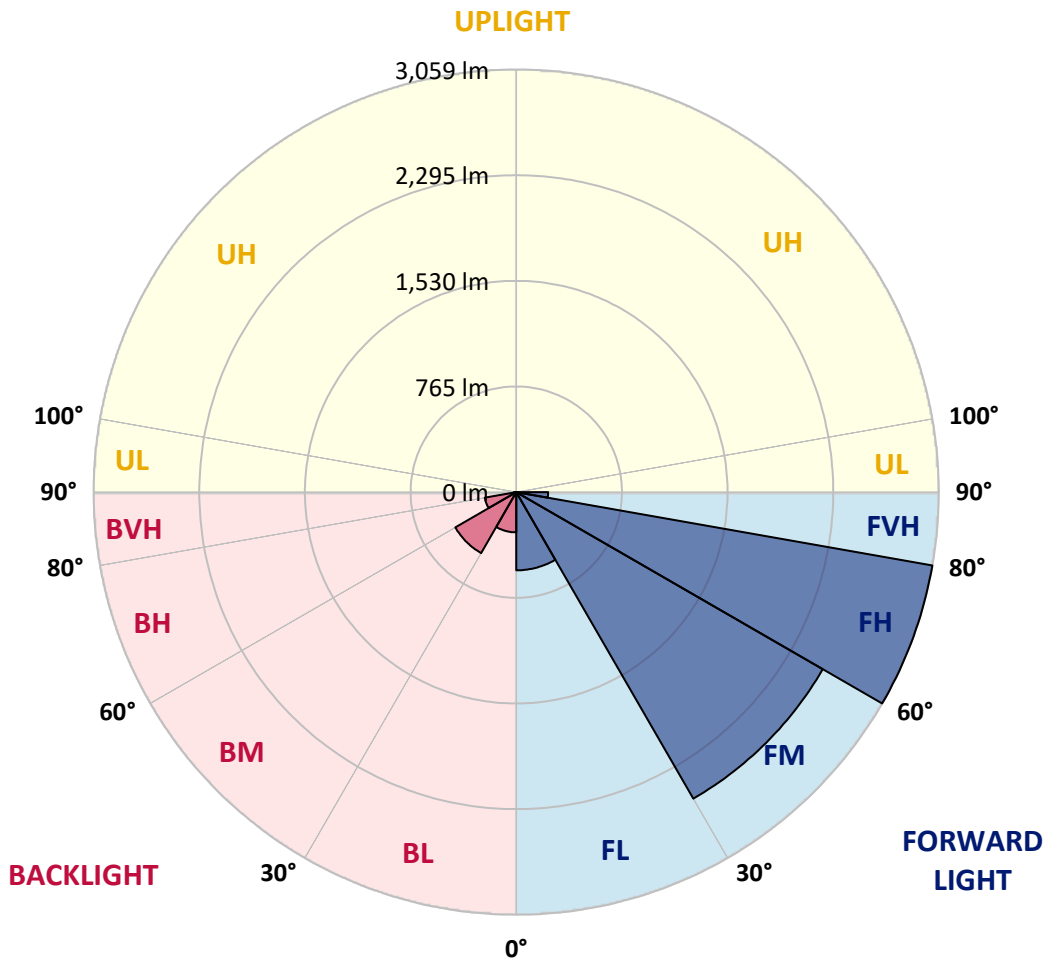
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.9	7.6			
FM (30°-60°)	2562.1	34.3			
FH (60°-80°)	3059.4	41.0			G2/5000
FVH (80°-90°)	231.0	3.1			G3/500
BL (0°-30°)	291.1	3.9	B1/500		
BM (30°-60°)	509.5	6.8	B1/1000		
BH (60°-80°)	230.9	3.1	B1/500		G1/500
BVH (80°-90°)	18.3	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4
2.5°	1361.2	1346.9	1349.5	1344.4	1349.5	1347.8	1345.3	1332.7	1345.3	1332.7	1329.4
5°	1342.8	1342.8	1351.1	1338.6	1340.3	1331.9	1340.3	1331.1	1322.7	1301.8	1296.0
7.5°	1336.9	1336.1	1336.9	1319.4	1327.7	1322.7	1314.4	1304.3	1287.6	1274.3	1255.0
10°	1296.8	1305.2	1296.0	1301.0	1307.7	1292.6	1291.8	1289.3	1281.8	1264.2	1252.5
12.5°	1275.1	1289.3	1294.3	1290.1	1296.0	1297.6	1292.6	1289.3	1280.1	1268.4	1235.0
15°	1284.3	1267.6	1281.8	1309.3	1303.5	1307.7	1308.5	1305.2	1301.0	1279.3	1257.5
17.5°	1286.8	1276.8	1306.8	1312.7	1320.2	1335.2	1325.2	1324.4	1308.5	1293.5	1261.7
20°	1292.6	1288.5	1312.7	1343.6	1344.4	1346.9	1352.0	1339.4	1331.1	1305.2	1256.7
22.5°	1314.4	1328.6	1351.1	1364.5	1372.0	1373.7	1373.7	1348.6	1339.4	1318.5	1280.1
25°	1379.5	1364.5	1396.2	1412.1	1401.3	1398.8	1392.9	1370.3	1360.3	1341.9	1291.0
27.5°	1427.2	1426.3	1444.7	1466.4	1437.2	1443.0	1422.1	1415.5	1392.9	1382.9	1310.2
30°	1492.3	1510.7	1509.9	1516.6	1478.1	1484.8	1458.1	1445.5	1433.0	1438.9	1367.0
32.5°	1575.9	1569.2	1580.1	1575.1	1536.6	1542.5	1510.7	1491.5	1495.7	1513.2	1444.7
35°	1629.4	1622.7	1626.9	1626.9	1615.2	1608.5	1595.1	1570.0	1590.1	1622.7	1531.6
37.5°	1687.0	1695.4	1719.6	1714.6	1699.6	1699.6	1697.9	1680.3	1706.2	1786.5	1670.3
40°	1738.0	1760.6	1775.6	1785.6	1803.2	1803.2	1817.4	1807.3	1854.1	1982.8	1839.9
42.5°	1791.5	1792.3	1874.2	1881.7	1921.0	1937.7	1948.6	1956.9	2044.7	2188.4	2021.3
45°	1860.0	1864.2	1936.0	1993.7	2054.7	2060.5	2101.5	2129.0	2236.8	2413.1	2218.4
47.5°	1950.2	1945.2	2022.1	2114.0	2190.0	2230.1	2279.4	2309.5	2442.4	2657.1	2434.0
50°	2068.9	2053.8	2098.1	2242.7	2332.1	2376.4	2464.1	2514.2	2669.7	2890.3	2581.9
52.5°	2213.4	2188.4	2223.5	2381.4	2481.7	2571.1	2654.6	2710.6	2872.7	3070.7	2691.4
55°	2366.3	2314.5	2324.6	2528.4	2673.0	2757.4	2871.9	2930.4	3095.8	3232.8	2800.8
57.5°	2517.6	2485.0	2464.9	2669.7	2901.1	2982.2	3087.4	3163.5	3303.9	3376.6	2893.6
60°	2644.6	2636.2	2603.6	2888.6	3142.6	3211.9	3322.2	3369.0	3475.2	3509.4	2895.3
62.5°	2749.0	2720.6	2772.4	3064.9	3388.3	3466.8	3588.0	3592.1	3667.3	3592.1	2810.0
65°	2830.9	2832.6	2915.3	3278.0	3672.3	3788.5	3886.3	3875.4	3826.9	3542.8	2608.7
67.5°	2905.3	2937.0	3058.2	3511.9	4037.5	4147.0	4255.6	4111.9	3870.4	3312.2	2215.1
70°	2963.8	2995.5	3251.2	3796.8	4467.8	4628.2	4652.5	4205.4	3670.7	2805.9	1671.1
72.5°	2957.1	3014.8	3360.7	4024.1	4849.7	4988.4	4792.9	3942.2	3058.2	1956.1	975.1
73°	2971.3	2999.7	3351.5	4087.6	4965.8	5035.2	4727.7	3859.5	2884.4	1754.7	824.7
75°	2697.2	2793.3	3185.2	3984.0	4841.3	4828.8	4353.3	3216.1	2050.5	921.6	399.4
77.5°	1995.4	2056.3	2510.1	3276.3	3974.0	3893.8	3283.8	2055.5	973.4	341.7	215.6
80°	975.1	1022.7	1330.2	1891.7	2598.6	2605.3	2038.0	1069.5	417.0	193.0	147.1
82.5°	487.1	515.5	639.2	831.4	1278.4	1339.4	1033.6	608.3	258.2	109.5	83.6
85°	318.4	338.4	393.6	406.9	542.3	572.4	481.3	474.6	168.0	59.3	67.7
87.5°	211.4	214.7	241.5	205.6	217.2	208.9	232.3	299.1	49.3	25.1	18.4
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°	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4
2.5°	1325.2	1313.5	1301.0	1283.4	1270.9	1251.7	1234.1	1226.6	1225.0	1225.8	1217.4
5°	1291.0	1274.3	1249.2	1213.3	1192.4	1160.6	1133.9	1119.7	1104.6	1107.1	1100.5
7.5°	1243.3	1225.0	1186.5	1144.7	1092.9	1047.8	1022.7	987.6	967.6	952.6	960.9
10°	1228.3	1196.5	1138.9	1081.2	1001.0	941.7	884.0	843.9	816.4	789.6	801.3
12.5°	1220.8	1189.0	1108.8	1023.6	920.0	829.7	748.7	699.4	660.1	636.7	645.9
15°	1214.1	1174.8	1080.4	960.1	843.9	725.3	634.2	569.0	531.4	508.9	511.4
17.5°	1223.3	1167.3	1038.6	898.2	760.4	633.4	532.3	464.6	426.1	411.9	408.6
20°	1214.1	1158.9	997.7	836.4	676.8	545.6	448.7	392.7	366.0	354.3	351.8
22.5°	1217.4	1138.9	955.1	767.9	599.1	472.1	392.7	350.1	329.2	323.4	325.0
25°	1233.3	1127.2	912.4	692.7	522.2	417.8	356.8	324.2	309.2	303.3	305.0
27.5°	1245.0	1137.2	874.0	621.7	457.1	369.3	326.7	305.0	295.0	290.8	289.9
30°	1274.3	1143.1	836.4	558.2	403.6	337.6	305.8	288.3	281.6	279.1	278.2
32.5°	1317.7	1153.9	793.0	499.7	364.3	307.5	289.1	274.1	272.4	269.9	270.7
35°	1388.7	1191.5	744.5	449.5	326.7	287.4	271.6	261.5	261.5	261.5	264.0
37.5°	1490.7	1244.2	701.0	401.9	302.5	269.9	256.5	253.2	251.5	254.0	255.7
40°	1621.8	1307.7	666.0	364.3	281.6	258.2	246.5	244.8	244.0	243.2	244.8
42.5°	1765.6	1388.7	635.9	335.1	266.5	245.7	237.3	235.6	232.3	234.0	236.5
45°	1908.5	1489.0	609.1	311.7	256.5	239.0	227.3	226.4	224.8	223.9	228.1
47.5°	2067.2	1587.6	600.8	297.5	249.0	228.9	220.6	219.8	214.7	213.9	217.2
50°	2190.9	1660.3	610.0	290.8	238.1	221.4	215.6	211.4	207.2	203.0	203.0
52.5°	2276.1	1710.4	616.7	285.8	232.3	211.4	203.9	202.2	198.0	193.9	192.2
55°	2353.0	1740.5	618.3	286.6	226.4	199.7	194.7	193.9	191.3	184.7	183.0
57.5°	2378.9	1728.0	584.9	279.1	223.1	192.2	185.5	187.2	183.8	178.0	177.1
60°	2376.4	1641.1	508.9	269.1	215.6	183.8	175.5	180.5	180.5	173.8	173.0
62.5°	2231.8	1440.5	416.1	249.8	207.2	175.5	166.3	173.8	176.3	172.1	171.3
65°	1931.8	1173.1	347.6	230.6	194.7	166.3	157.1	165.4	169.6	168.0	167.1
67.5°	1598.5	897.4	289.1	205.6	178.8	153.7	146.2	152.1	154.6	155.4	156.3
70°	1129.7	597.4	241.5	178.0	157.1	140.4	132.0	132.9	132.0	134.5	134.5
72.5°	614.1	344.3	196.4	151.2	135.4	122.0	116.1	112.0	112.0	111.1	111.1
73°	525.6	309.2	187.2	147.1	129.5	118.7	112.0	108.6	108.6	107.8	107.0
75°	295.0	226.4	160.4	126.2	112.0	103.6	98.6	93.6	92.7	92.7	92.7
77.5°	193.9	176.3	127.8	101.1	90.2	82.7	81.1	76.0	76.0	76.0	75.2
80°	145.4	138.7	98.6	76.9	69.4	63.5	61.8	58.5	57.7	54.3	55.1
82.5°	96.9	109.5	71.9	54.3	46.8	43.4	43.4	42.6	40.1	35.9	35.9
85°	76.9	89.4	51.8	33.4	27.6	23.4	24.2	23.4	22.6	18.4	17.5
87.5°	14.2	35.9	15.0	9.2	6.7	4.2	4.2	2.5	1.7	0.0	0.0
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)