

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: INVUE

Report Number: P675780

Luminaire Tested: **CCW-SA-1F-850-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675780
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL4 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

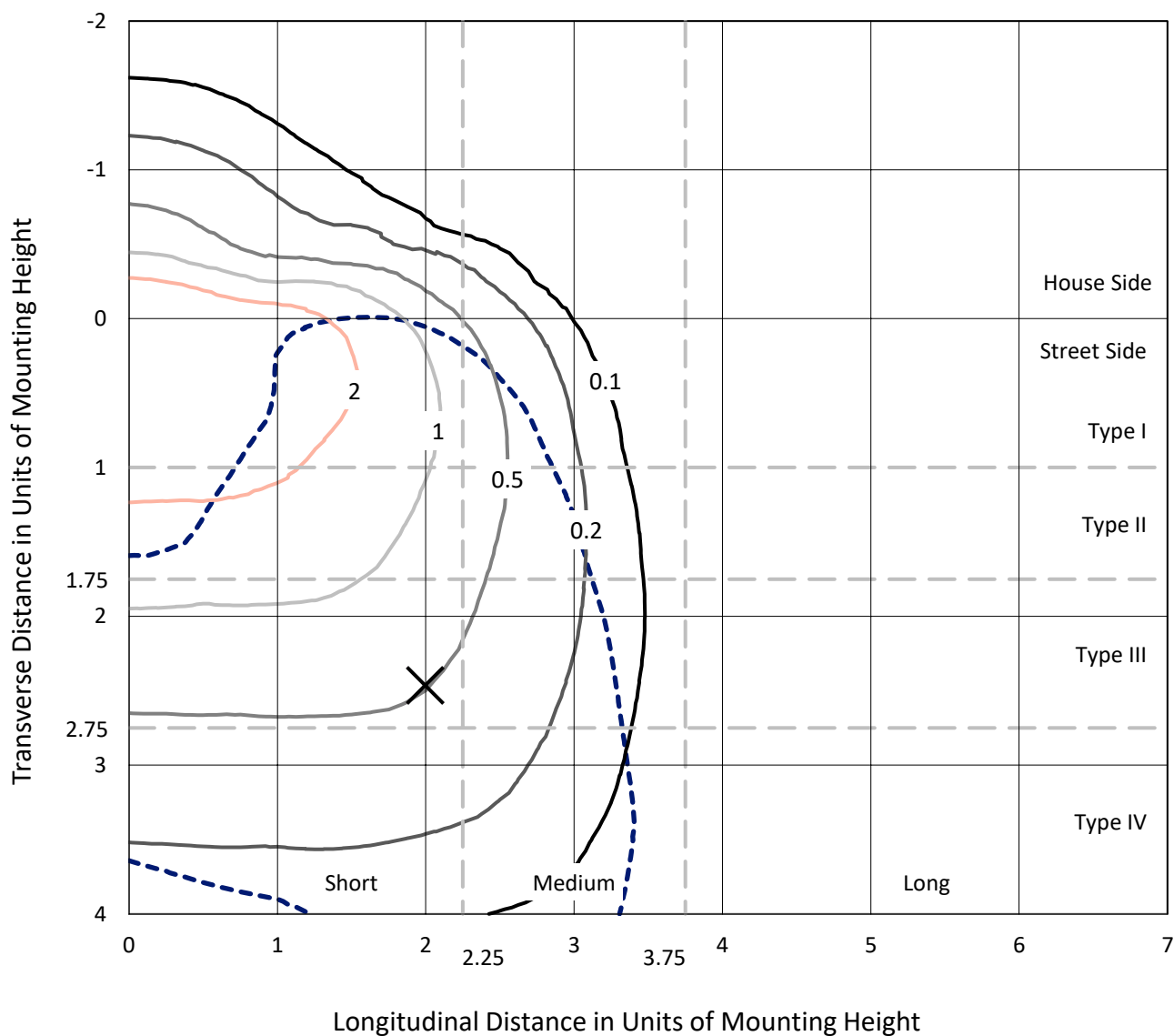
Lumens per Lamp: N/A
Luminaire Lumens: 6411.1 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

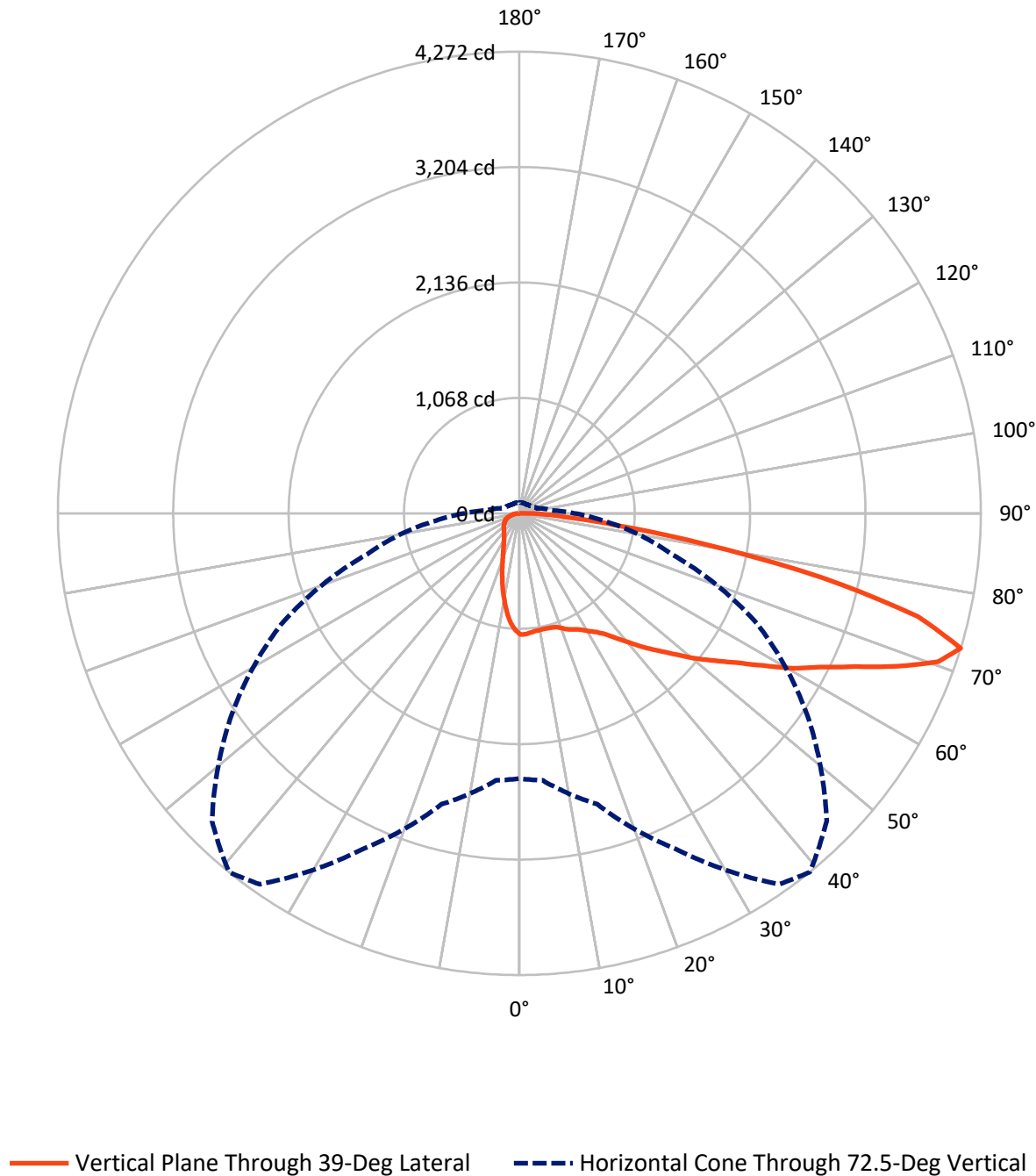
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	952.8	0.0	952.8
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5458.3	0.0	5458.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	6411.1	0.0	6411.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.5
10°-20°	253.1	3.9
20°-30°	385.6	6.0
30°-40°	564.0	8.8
40°-50°	863.5	13.5
50°-60°	1266.5	19.8
60°-70°	1615.3	25.2
70°-80°	1167.0	18.2
80°-90°	196.9	3.1
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°	6411.1	100.0
0°-180°	6411.1	100.0

Coefficient of Utilization



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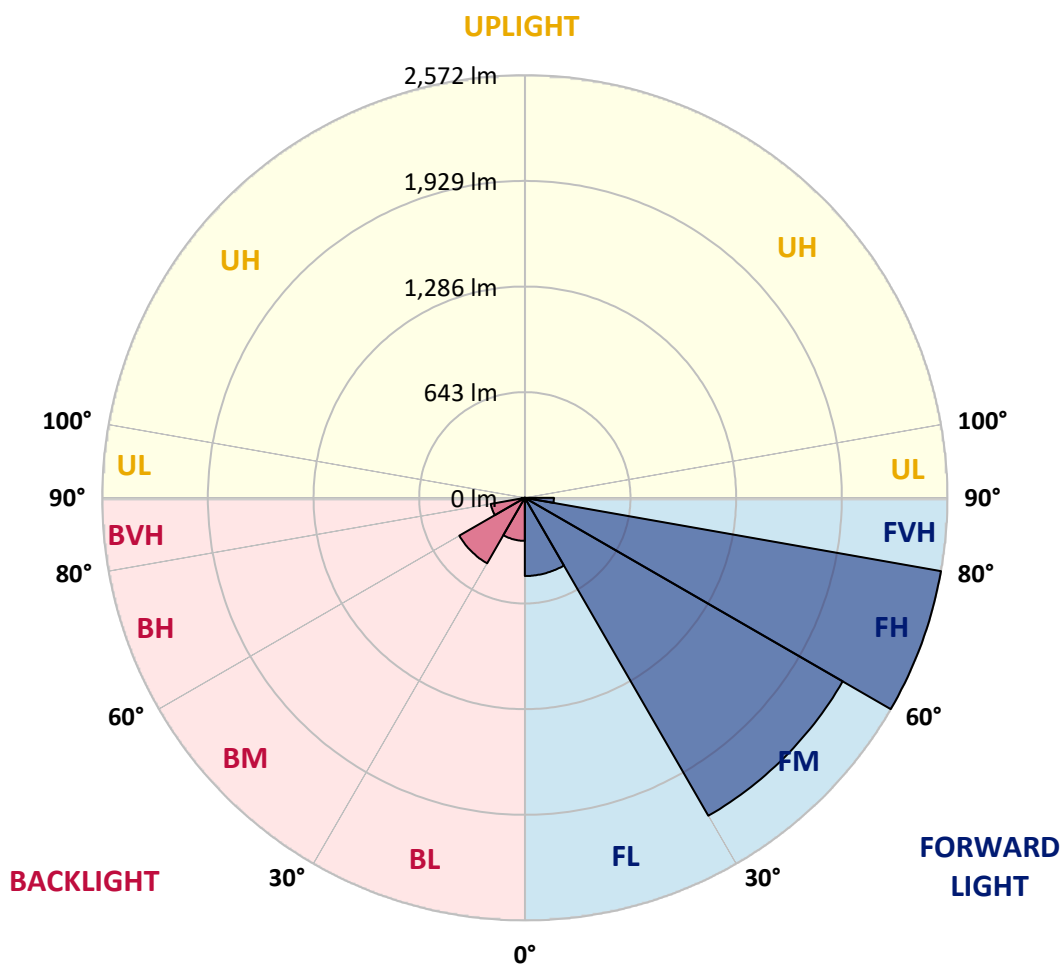
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.8	7.4			
FM	(30°-60°)	2233.8	34.8			
FH	(60°-80°)	2571.8	40.1			G2/5000
FVH	(80°-90°)	176.9	2.8			G2/225
BL	(0°-30°)	262.0	4.1	B1/500		
BM	(30°-60°)	460.3	7.2	B1/1000		
BH	(60°-80°)	210.5	3.3	B1/500		G1/500
BVH	(80°-90°)	19.9	0.3			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2
2.5°	1139.1	1141.5	1136.7	1131.9	1129.5	1119.8	1129.5	1124.6	1119.8	1119.8	1119.8
5°	1124.6	1127.0	1127.0	1122.2	1124.6	1107.8	1105.4	1107.8	1100.6	1095.7	1093.3
7.5°	1103.0	1107.8	1117.4	1115.0	1105.4	1098.1	1100.6	1098.1	1086.1	1078.9	1059.6
10°	1086.1	1090.9	1095.7	1100.6	1098.1	1095.7	1093.3	1083.7	1081.3	1064.4	1045.2
12.5°	1069.2	1069.2	1071.7	1090.9	1093.3	1093.3	1078.9	1078.9	1071.7	1069.2	1040.3
15°	1052.4	1059.6	1078.9	1083.7	1093.3	1098.1	1090.9	1090.9	1078.9	1062.0	1040.3
17.5°	1057.2	1069.2	1088.5	1100.6	1105.4	1105.4	1115.0	1107.8	1090.9	1081.3	1059.6
20°	1081.3	1083.7	1107.8	1129.5	1134.3	1134.3	1124.6	1117.4	1105.4	1088.5	1059.6
22.5°	1095.7	1112.6	1141.5	1153.5	1168.0	1168.0	1155.9	1139.1	1122.2	1105.4	1074.1
25°	1158.4	1160.8	1172.8	1192.1	1199.3	1189.7	1177.6	1158.4	1136.7	1119.8	1090.9
27.5°	1201.7	1213.7	1228.2	1237.8	1225.8	1218.6	1208.9	1187.2	1170.4	1155.9	1115.0
30°	1281.2	1266.7	1276.4	1281.2	1259.5	1264.3	1237.8	1218.6	1199.3	1199.3	1153.5
32.5°	1329.3	1341.4	1331.7	1329.3	1312.5	1310.1	1293.2	1271.5	1259.5	1273.9	1211.3
35°	1413.6	1406.4	1406.4	1404.0	1384.7	1372.7	1372.7	1334.1	1346.2	1377.5	1300.4
37.5°	1457.0	1454.6	1469.0	1481.1	1461.8	1469.0	1461.8	1444.9	1449.7	1505.1	1411.2
40°	1500.3	1517.2	1546.1	1550.9	1562.9	1572.6	1567.7	1565.3	1584.6	1673.7	1560.5
42.5°	1541.3	1555.7	1599.1	1637.6	1666.5	1697.8	1700.2	1700.2	1762.8	1890.4	1741.1
45°	1594.2	1606.3	1666.5	1743.5	1791.7	1813.4	1832.6	1854.3	1938.6	2090.3	1933.8
47.5°	1666.5	1676.1	1748.4	1844.7	1938.6	1950.7	1989.2	2013.3	2140.9	2295.0	2131.3
50°	1770.0	1762.8	1820.6	1960.3	2051.8	2109.6	2165.0	2208.3	2333.6	2502.1	2285.4
52.5°	1854.3	1854.3	1897.7	2083.1	2208.3	2263.7	2321.5	2381.7	2526.2	2709.2	2410.6
55°	1998.8	1984.4	2010.9	2203.5	2384.1	2437.1	2547.9	2598.5	2738.1	2863.4	2516.6
57.5°	2097.6	2104.8	2136.1	2362.5	2591.2	2656.3	2767.0	2803.2	2926.0	3024.7	2593.6
60°	2227.6	2203.5	2270.9	2538.3	2820.0	2911.5	3003.0	3024.7	3116.2	3128.3	2629.8
62.5°	2352.8	2348.0	2405.8	2714.1	3065.7	3130.7	3224.6	3248.7	3287.2	3210.1	2579.2
65°	2429.9	2461.2	2569.6	2906.7	3345.0	3417.3	3511.2	3463.0	3419.7	3137.9	2331.1
67.5°	2535.8	2550.3	2716.5	3116.2	3667.7	3776.1	3858.0	3667.7	3345.0	2841.7	1962.7
70°	2559.9	2598.5	2815.2	3335.4	4000.0	4110.8	4115.6	3597.9	3072.9	2311.9	1423.3
72.5°	2454.0	2480.5	2786.3	3426.9	4190.3	4272.2	4024.1	3253.5	2434.7	1457.0	775.4
75°	2063.8	2138.5	2425.1	3145.1	3841.1	3809.8	3410.0	2482.9	1461.8	645.4	327.5
77.5°	1437.7	1440.1	1738.7	2287.8	2875.4	2868.2	2432.3	1440.1	626.1	260.1	192.7
80°	638.2	683.9	864.5	1233.0	1746.0	1746.0	1418.4	715.2	313.1	168.6	132.5
82.5°	375.7	390.1	462.4	575.6	850.1	895.9	679.1	476.8	214.3	106.0	81.9
85°	276.9	301.0	344.4	346.8	402.2	409.4	375.7	414.2	146.9	57.8	67.4
87.5°	207.1	221.6	274.5	228.8	214.3	202.3	231.2	423.8	55.4	28.9	21.7
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°	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2
2.5°	1110.2	1110.2	1105.4	1095.7	1095.7	1076.5	1081.3	1086.1	1074.1	1074.1	1076.5
5°	1093.3	1083.7	1071.7	1057.2	1047.6	1021.1	1016.3	999.4	997.0	992.2	985.0
7.5°	1059.6	1045.2	1023.5	1001.8	970.5	946.4	917.5	893.4	883.8	876.6	874.2
10°	1028.3	1025.9	989.8	946.4	898.3	852.5	809.2	777.9	758.6	746.5	744.1
12.5°	1028.3	1009.0	958.5	898.3	828.4	761.0	705.6	662.3	635.8	616.5	609.3
15°	1023.5	1004.2	936.8	845.3	765.8	674.3	597.2	551.5	512.9	493.7	496.1
17.5°	1028.3	999.4	905.5	806.8	696.0	597.2	505.7	450.3	411.8	397.4	394.9
20°	1030.7	994.6	881.4	753.8	623.7	512.9	426.3	373.3	344.4	334.7	334.7
22.5°	1025.9	980.1	845.3	691.2	561.1	443.1	370.9	325.1	305.8	293.8	298.6
25°	1047.6	977.7	811.6	638.2	488.9	385.3	329.9	296.2	284.2	276.9	279.4
27.5°	1052.4	977.7	785.1	578.0	426.3	342.0	298.6	276.9	267.3	262.5	260.1
30°	1071.7	982.6	753.8	517.8	375.7	308.3	274.5	262.5	255.3	252.9	252.9
32.5°	1124.6	997.0	720.1	467.2	332.3	279.4	257.7	248.0	243.2	240.8	243.2
35°	1187.2	1035.5	683.9	414.2	301.0	260.1	243.2	236.0	233.6	233.6	233.6
37.5°	1283.6	1093.3	652.6	370.9	274.5	240.8	228.8	226.4	224.0	226.4	226.4
40°	1394.4	1155.9	623.7	337.1	255.3	228.8	216.7	216.7	214.3	216.7	219.1
42.5°	1522.0	1233.0	594.8	303.4	238.4	219.1	209.5	207.1	204.7	209.5	211.9
45°	1697.8	1339.0	575.6	284.2	226.4	209.5	199.9	199.9	197.5	197.5	202.3
47.5°	1844.7	1440.1	575.6	264.9	219.1	202.3	192.7	192.7	187.8	190.2	190.2
50°	1967.5	1526.8	587.6	260.1	209.5	195.1	187.8	183.0	180.6	180.6	180.6
52.5°	2049.4	1579.8	597.2	255.3	204.7	185.4	180.6	178.2	173.4	171.0	173.4
55°	2131.3	1615.9	599.6	255.3	197.5	175.8	171.0	171.0	166.2	163.8	163.8
57.5°	2162.6	1601.5	565.9	250.5	192.7	168.6	163.8	161.4	158.9	156.5	156.5
60°	2148.1	1548.5	491.3	238.4	187.8	163.8	154.1	154.1	154.1	149.3	151.7
62.5°	2049.4	1367.9	394.9	219.1	180.6	154.1	144.5	149.3	149.3	146.9	146.9
65°	1789.3	1129.5	320.3	202.3	171.0	146.9	137.3	144.5	146.9	144.5	142.1
67.5°	1430.5	869.4	264.9	183.0	158.9	134.9	127.6	134.9	137.3	134.9	134.9
70°	982.6	561.1	214.3	163.8	142.1	122.8	115.6	120.4	120.4	122.8	122.8
72.5°	508.1	303.4	175.8	139.7	122.8	110.8	103.6	103.6	101.1	101.1	101.1
75°	252.9	207.1	146.9	118.0	103.6	93.9	89.1	84.3	84.3	84.3	84.3
77.5°	175.8	158.9	120.4	93.9	84.3	77.1	77.1	69.8	69.8	69.8	69.8
80°	132.5	125.2	91.5	72.2	65.0	60.2	60.2	57.8	57.8	55.4	55.4
82.5°	93.9	101.1	69.8	53.0	48.2	45.8	45.8	43.3	43.3	38.5	38.5
85°	74.7	84.3	53.0	38.5	36.1	31.3	31.3	28.9	28.9	26.5	24.1
87.5°	21.7	45.8	21.7	14.4	14.4	14.4	14.4	12.0	12.0	9.6	9.6
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)