

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: P675768

Luminaire Tested: **CCW-SA-1E-840-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675768
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-840-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

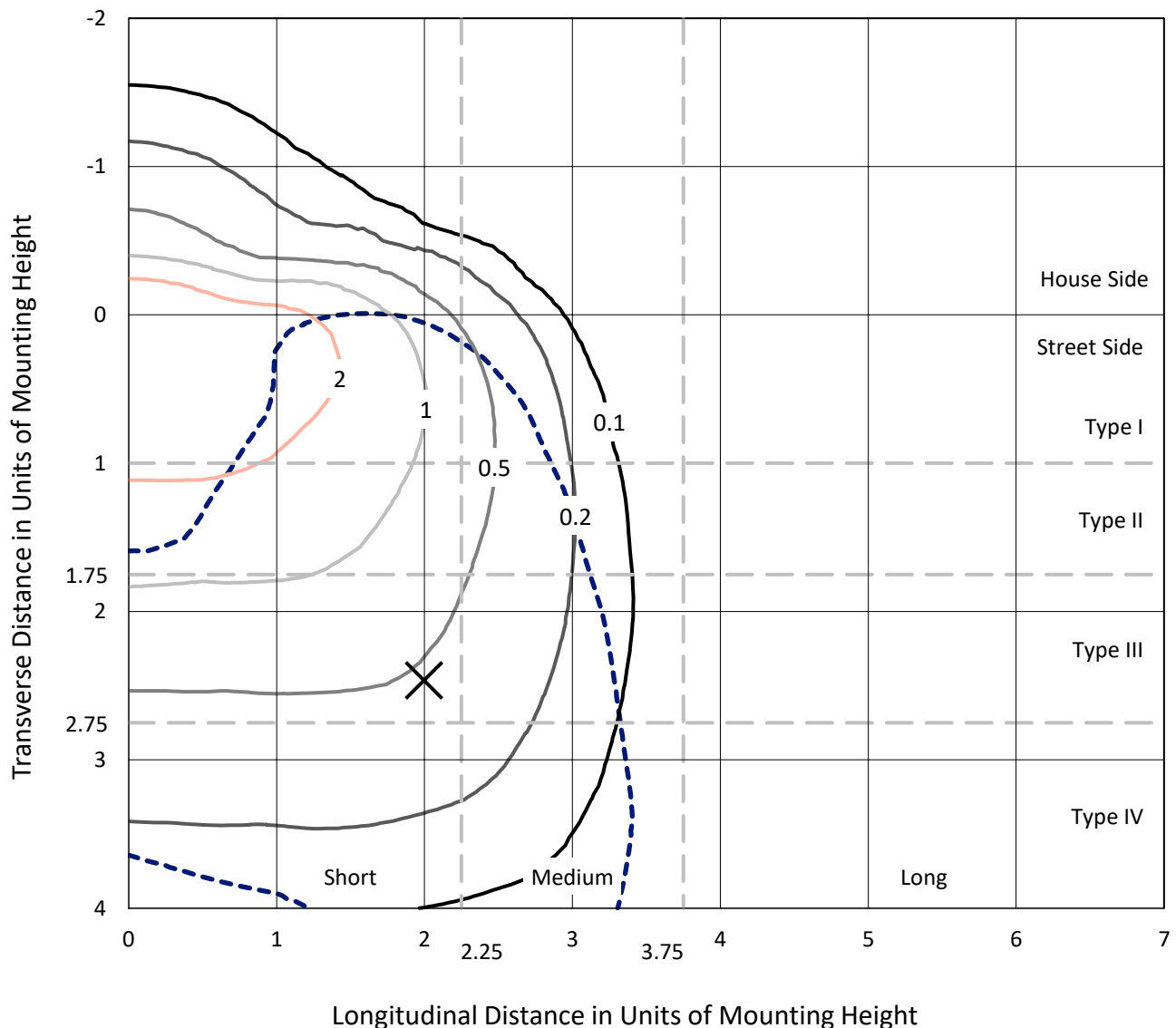
Lumens per Lamp: N/A
Luminaire Lumens: 5712.2 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

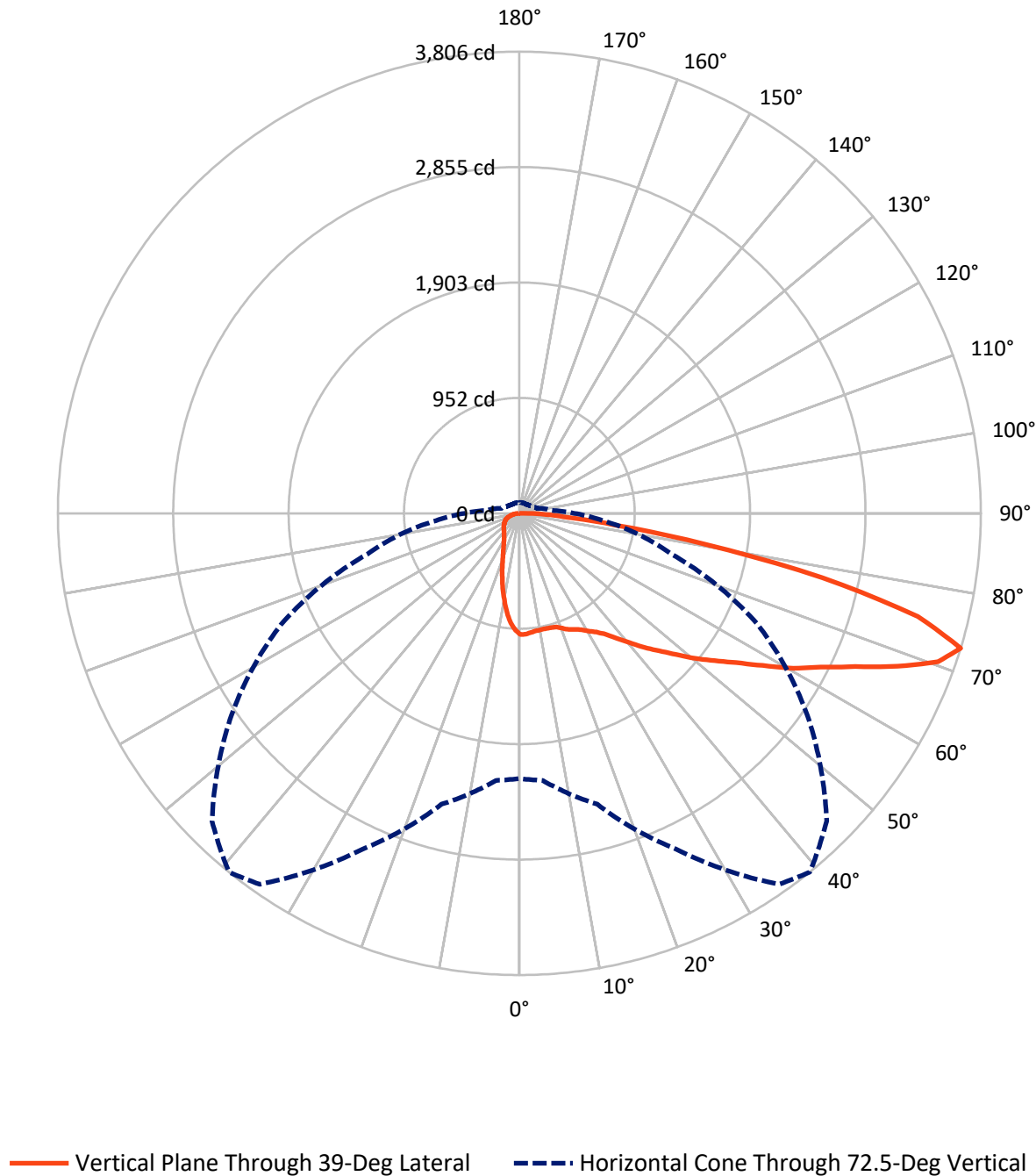
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 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	848.9	0.0	848.9
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4863.3	0.0	4863.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	5712.2	0.0	5712.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.5
10°-20°	225.5	3.9
20°-30°	343.6	6.0
30°-40°	502.5	8.8
40°-50°	769.4	13.5
50°-60°	1128.4	19.8
60°-70°	1439.2	25.2
70°-80°	1039.8	18.2
80°-90°	175.4	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°	5712.2	100.0
0°-180°	5712.2	100.0

Coefficient of Utilization



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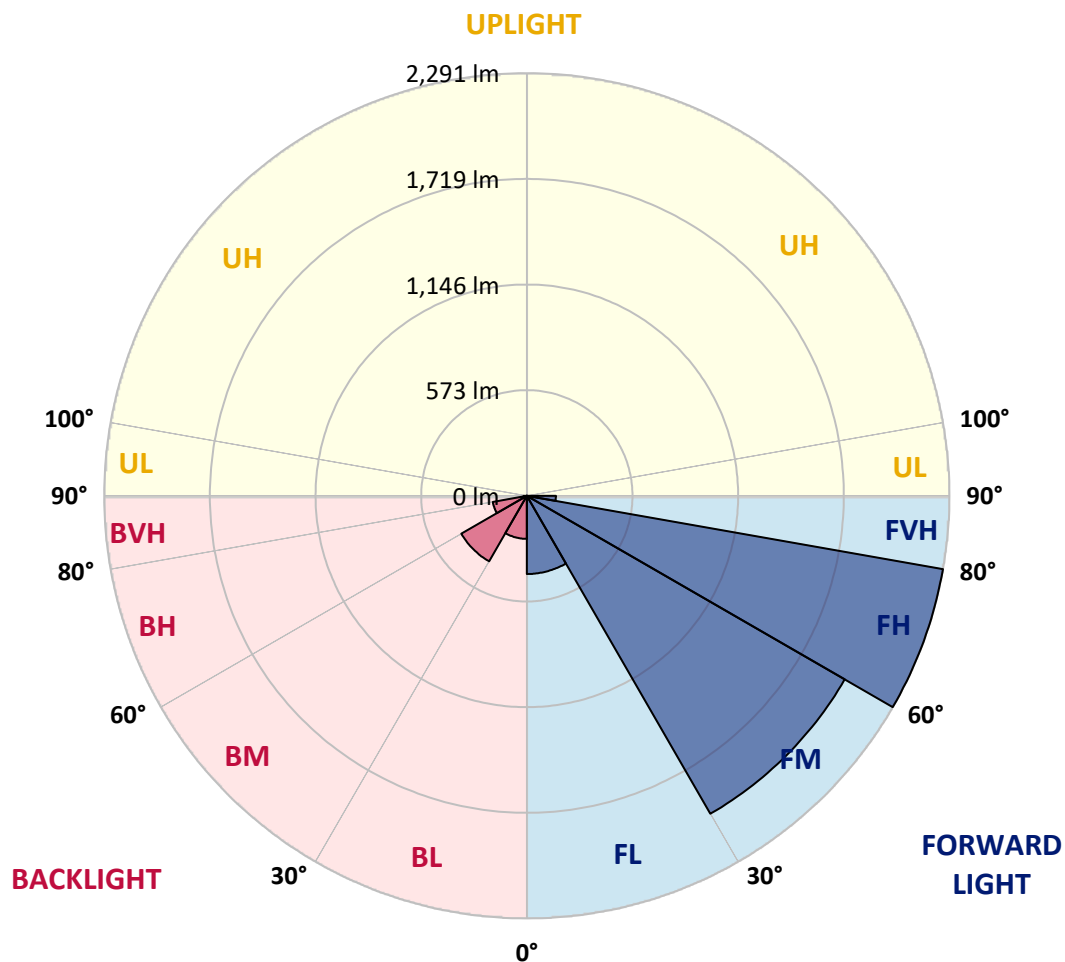
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.9	7.4			
FM	(30°-60°)	1990.3	34.8			
FH	(60°-80°)	2291.4	40.1			G2/5000
FVH	(80°-90°)	157.6	2.8			G2/225
BL	(0°-30°)	233.5	4.1	B1/500		
BM	(30°-60°)	410.1	7.2	B1/1000		
BH	(60°-80°)	187.6	3.3	B1/500		G1/500
BVH	(80°-90°)	17.8	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°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9
2.5°	1014.9	1017.1	1012.8	1008.5	1006.3	997.7	1006.3	1002.0	997.7	997.7	997.7
5°	1002.0	1004.2	1004.2	999.9	1002.0	987.0	984.9	987.0	980.6	976.3	974.1
7.5°	982.7	987.0	995.6	993.5	984.9	978.4	980.6	978.4	967.7	961.3	944.1
10°	967.7	972.0	976.3	980.6	978.4	976.3	974.1	965.6	963.4	948.4	931.2
12.5°	952.7	952.7	954.8	972.0	974.1	974.1	961.3	961.3	954.8	952.7	926.9
15°	937.7	944.1	961.3	965.6	974.1	978.4	972.0	972.0	961.3	946.2	926.9
17.5°	942.0	952.7	969.8	980.6	984.9	984.9	993.5	987.0	972.0	963.4	944.1
20°	963.4	965.6	987.0	1006.3	1010.6	1010.6	1002.0	995.6	984.9	969.8	944.1
22.5°	976.3	991.3	1017.1	1027.8	1040.7	1040.7	1029.9	1014.9	999.9	984.9	957.0
25°	1032.1	1034.2	1044.9	1062.1	1068.6	1060.0	1049.2	1032.1	1012.8	997.7	972.0
27.5°	1070.7	1081.4	1094.3	1102.9	1092.2	1085.7	1077.1	1057.8	1042.8	1029.9	993.5
30°	1141.5	1128.6	1137.2	1141.5	1122.2	1126.5	1102.9	1085.7	1068.6	1068.6	1027.8
32.5°	1184.4	1195.1	1186.6	1184.4	1169.4	1167.3	1152.2	1132.9	1122.2	1135.1	1079.3
35°	1259.5	1253.1	1253.1	1250.9	1233.8	1223.0	1223.0	1188.7	1199.4	1227.3	1158.7
37.5°	1298.1	1296.0	1308.9	1319.6	1302.4	1308.9	1302.4	1287.4	1291.7	1341.1	1257.4
40°	1336.8	1351.8	1377.5	1381.8	1392.5	1401.1	1396.8	1394.7	1411.9	1491.3	1390.4
42.5°	1373.2	1386.1	1424.7	1459.1	1484.8	1512.7	1514.9	1514.9	1570.6	1684.4	1551.3
45°	1420.4	1431.2	1484.8	1553.5	1596.4	1615.7	1632.9	1652.2	1727.3	1862.5	1723.0
47.5°	1484.8	1493.4	1557.8	1643.6	1727.3	1738.0	1772.3	1793.8	1907.5	2044.8	1898.9
50°	1577.1	1570.6	1622.1	1746.6	1828.1	1879.6	1929.0	1967.6	2079.2	2229.4	2036.3
52.5°	1652.2	1652.2	1690.8	1856.0	1967.6	2016.9	2068.4	2122.1	2250.8	2413.9	2147.8
55°	1780.9	1768.0	1791.6	1963.3	2124.2	2171.4	2270.1	2315.2	2439.6	2551.2	2242.2
57.5°	1868.9	1875.3	1903.2	2104.9	2308.8	2366.7	2465.4	2497.6	2607.0	2695.0	2310.9
60°	1984.8	1963.3	2023.4	2261.6	2512.6	2594.1	2675.7	2695.0	2776.5	2787.2	2343.1
62.5°	2096.3	2092.0	2143.5	2418.2	2731.5	2789.4	2873.1	2894.5	2928.9	2860.2	2298.0
65°	2165.0	2192.9	2289.4	2589.8	2980.4	3044.7	3128.4	3085.5	3046.9	2795.8	2077.0
67.5°	2259.4	2272.3	2420.3	2776.5	3267.9	3364.4	3437.4	3267.9	2980.4	2531.9	1748.7
70°	2280.9	2315.2	2508.3	2971.8	3564.0	3662.7	3667.0	3205.7	2737.9	2059.9	1268.1
72.5°	2186.5	2210.1	2482.6	3053.3	3733.5	3806.4	3585.4	2898.8	2169.3	1298.1	690.9
75°	1838.9	1905.4	2160.7	2802.3	3422.4	3394.5	3038.3	2212.2	1302.4	575.0	291.8
77.5°	1281.0	1283.1	1549.2	2038.4	2561.9	2555.5	2167.1	1283.1	557.9	231.7	171.7
80°	568.6	609.4	770.3	1098.6	1555.6	1555.6	1263.8	637.3	278.9	150.2	118.0
82.5°	334.7	347.6	412.0	512.8	757.4	798.2	605.1	424.8	191.0	94.4	73.0
85°	246.8	268.2	306.8	309.0	358.3	364.8	334.7	369.1	130.9	51.5	60.1
87.5°	184.5	197.4	244.6	203.8	191.0	180.2	206.0	377.6	49.4	25.7	19.3
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°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9
2.5°	989.2	989.2	984.9	976.3	976.3	959.1	963.4	967.7	957.0	957.0	959.1
5°	974.1	965.6	954.8	942.0	933.4	909.8	905.5	890.5	888.3	884.0	877.6
7.5°	944.1	931.2	911.9	892.6	864.7	843.3	817.5	796.0	787.5	781.0	778.9
10°	916.2	914.1	881.9	843.3	800.3	759.6	720.9	693.1	675.9	665.2	663.0
12.5°	916.2	899.0	854.0	800.3	738.1	678.0	628.7	590.1	566.5	549.3	542.9
15°	911.9	894.8	834.7	753.1	682.3	600.8	532.1	491.4	457.0	439.9	442.0
17.5°	916.2	890.5	806.8	718.8	620.1	532.1	450.6	401.2	366.9	354.0	351.9
20°	918.4	886.2	785.3	671.6	555.7	457.0	379.8	332.6	306.8	298.3	298.3
22.5°	914.1	873.3	753.1	615.8	499.9	394.8	330.4	289.7	272.5	261.8	266.1
25°	933.4	871.1	723.1	568.6	435.6	343.3	294.0	263.9	253.2	246.8	248.9
27.5°	937.7	871.1	699.5	515.0	379.8	304.7	266.1	246.8	238.2	233.9	231.7
30°	954.8	875.4	671.6	461.3	334.7	274.6	244.6	233.9	227.4	225.3	225.3
32.5°	1002.0	888.3	641.6	416.3	296.1	248.9	229.6	221.0	216.7	214.6	216.7
35°	1057.8	922.6	609.4	369.1	268.2	231.7	216.7	210.3	208.1	208.1	208.1
37.5°	1143.6	974.1	581.5	330.4	244.6	214.6	203.8	201.7	199.5	201.7	201.7
40°	1242.4	1029.9	555.7	300.4	227.4	203.8	193.1	193.1	191.0	193.1	195.3
42.5°	1356.1	1098.6	530.0	270.4	212.4	195.3	186.7	184.5	182.4	186.7	188.8
45°	1512.7	1193.0	512.8	253.2	201.7	186.7	178.1	178.1	175.9	175.9	180.2
47.5°	1643.6	1283.1	512.8	236.0	195.3	180.2	171.7	171.7	167.4	169.5	169.5
50°	1753.0	1360.4	523.5	231.7	186.7	173.8	167.4	163.1	160.9	160.9	160.9
52.5°	1826.0	1407.6	532.1	227.4	182.4	165.2	160.9	158.8	154.5	152.3	154.5
55°	1898.9	1439.8	534.3	227.4	175.9	156.6	152.3	152.3	148.1	145.9	145.9
57.5°	1926.8	1426.9	504.2	223.2	171.7	150.2	145.9	143.8	141.6	139.5	139.5
60°	1914.0	1379.7	437.7	212.4	167.4	145.9	137.3	137.3	137.3	133.0	135.2
62.5°	1826.0	1218.7	351.9	195.3	160.9	137.3	128.7	133.0	133.0	130.9	130.9
65°	1594.2	1006.3	285.4	180.2	152.3	130.9	122.3	128.7	130.9	128.7	126.6
67.5°	1274.5	774.6	236.0	163.1	141.6	120.2	113.7	120.2	122.3	120.2	120.2
70°	875.4	499.9	191.0	145.9	126.6	109.4	103.0	107.3	107.3	109.4	109.4
72.5°	452.7	270.4	156.6	124.4	109.4	98.7	92.3	92.3	90.1	90.1	90.1
75°	225.3	184.5	130.9	105.1	92.3	83.7	79.4	75.1	75.1	75.1	75.1
77.5°	156.6	141.6	107.3	83.7	75.1	68.7	68.7	62.2	62.2	62.2	62.2
80°	118.0	111.6	81.5	64.4	57.9	53.6	53.6	51.5	51.5	49.4	49.4
82.5°	83.7	90.1	62.2	47.2	42.9	40.8	40.8	38.6	38.6	34.3	34.3
85°	66.5	75.1	47.2	34.3	32.2	27.9	27.9	25.7	25.7	23.6	21.5
87.5°	19.3	40.8	19.3	12.9	12.9	12.9	12.9	10.7	10.7	8.6	8.6
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)