

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: P674410

Luminaire Tested: **CCP-SA-2B-735-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674410  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-735-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

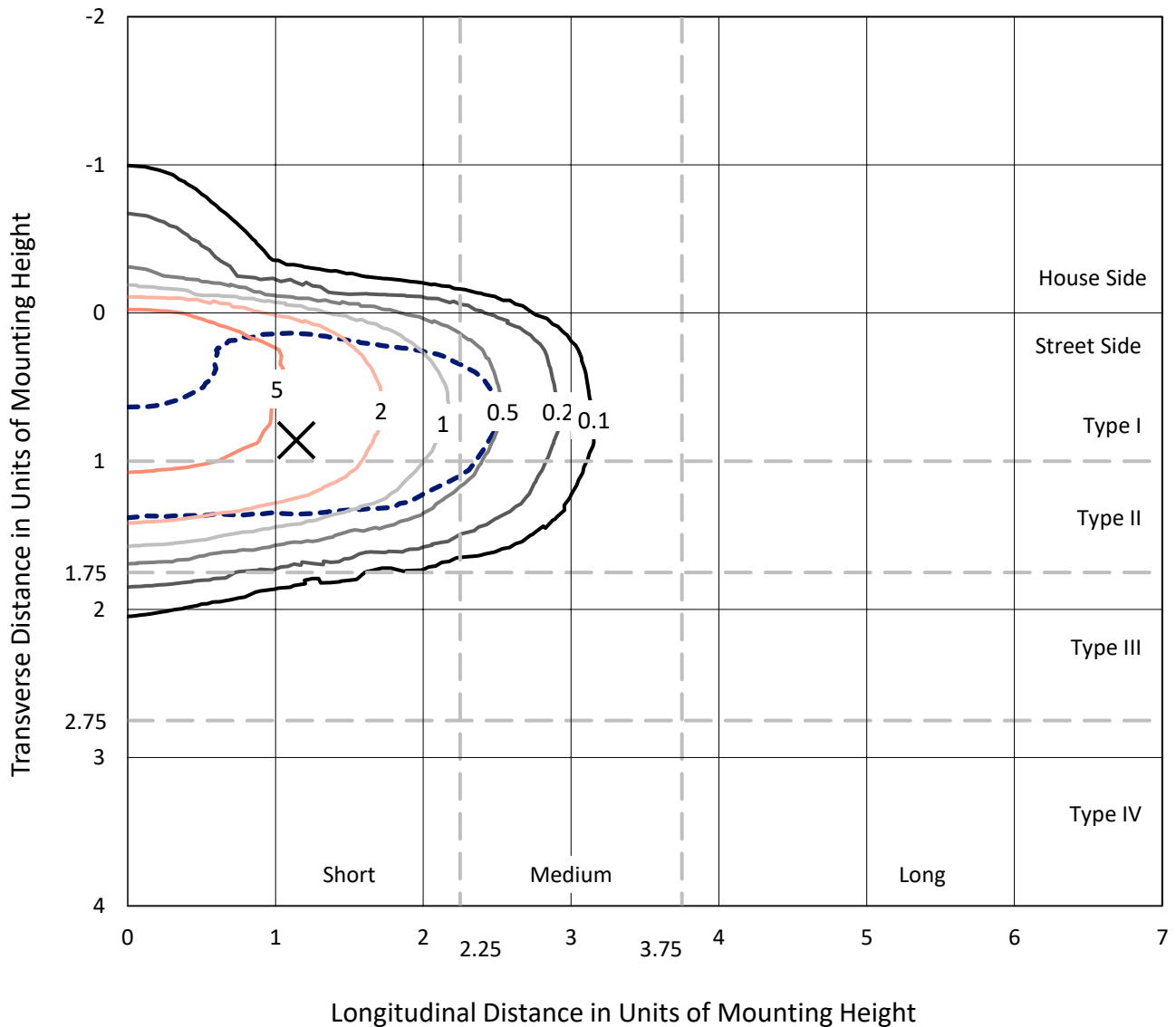
Lumens per Lamp: N/A  
Luminaire Lumens: 5648.6 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

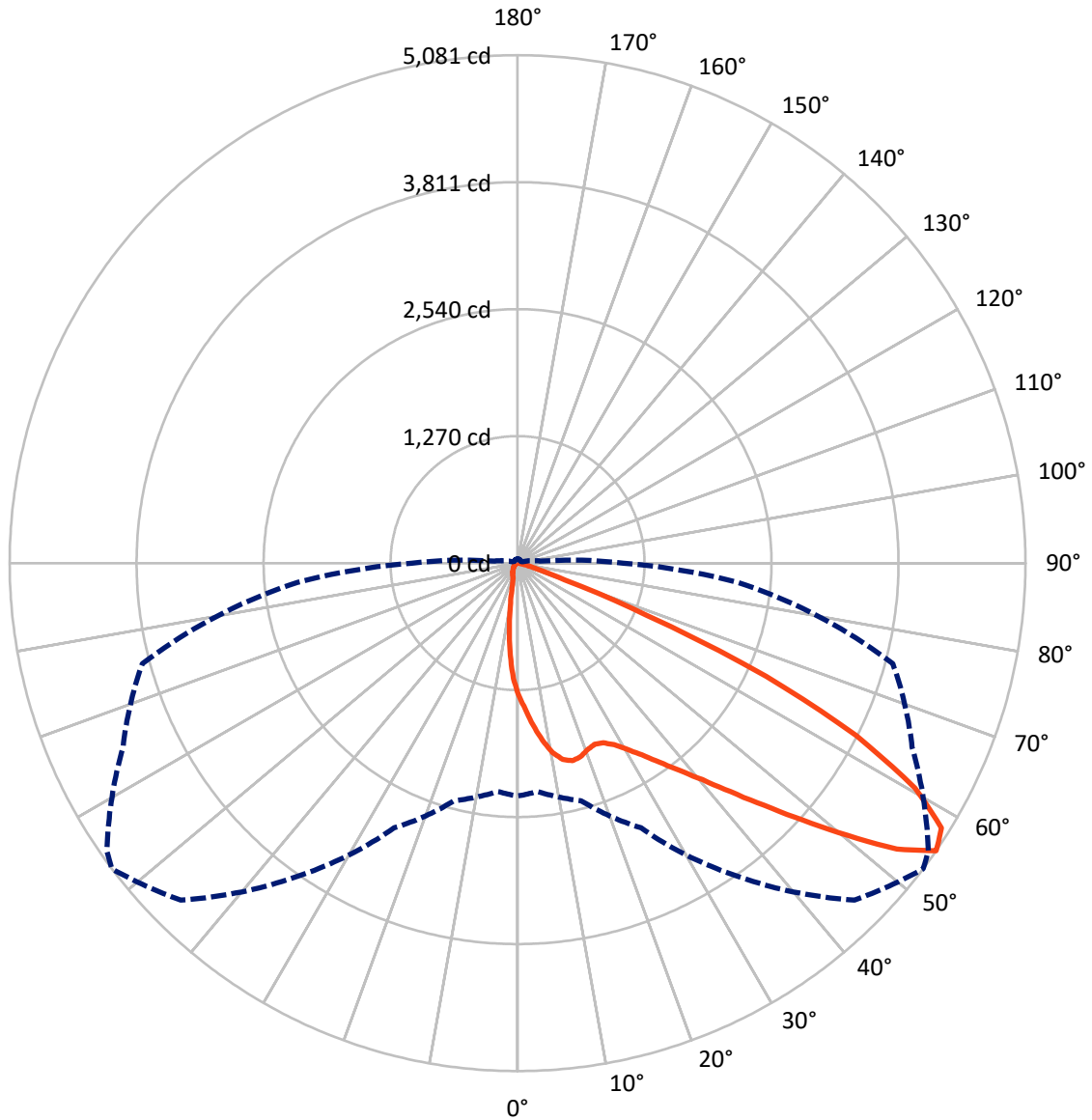
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	305.3	0.0	305.3
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	5343.2	0.0	5343.2
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	5648.6	0.0	5648.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	2.1
10°-20°	308.8	5.5
20°-30°	516.9	9.2
30°-40°	845.6	15.0
40°-50°	1359.3	24.1
50°-60°	1534.7	27.2
60°-70°	818.6	14.5
70°-80°	134.5	2.4
80°-90°	12.0	0.2
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°	5648.6	100.0
0°-180°	5648.6	100.0



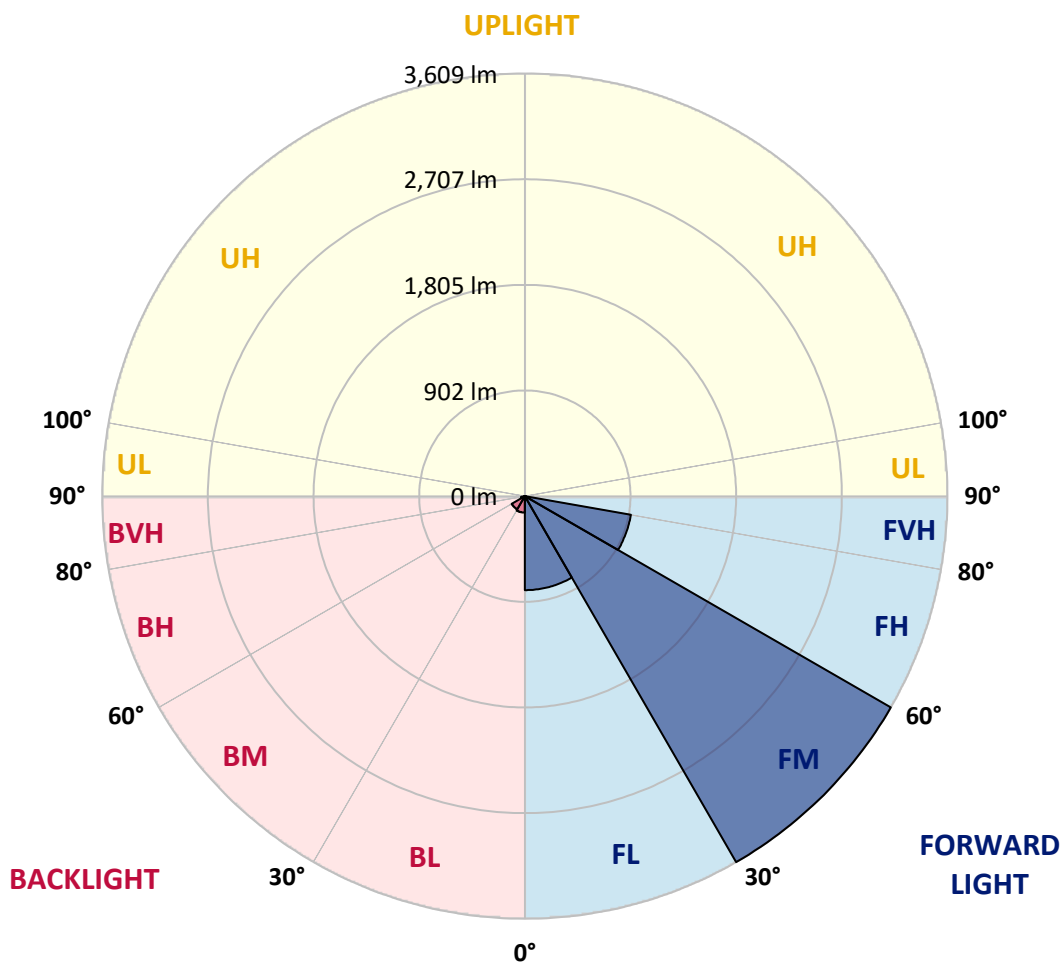
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.0	14.2			
FM (30°-60°)	3609.5	63.9			
FH (60°-80°)	919.7	16.3			G1/1800
FVH (80°-90°)	11.1	0.2			G1/100
BL (0°-30°)	140.9	2.5	B1/500		
BM (30°-60°)	130.1	2.3	B0/220		
BH (60°-80°)	33.4	0.6	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1585.2	1575.8	1581.2	1566.9	1540.6	1508.0	1459.0	1461.5	1422.9	1389.2	1342.7
5°	1847.0	1837.1	1834.1	1797.5	1760.9	1702.0	1629.2	1617.4	1546.6	1461.0	1363.5
7.5°	1985.1	1976.7	1983.1	1969.7	1933.6	1880.1	1788.1	1779.2	1669.8	1540.1	1396.6
10°	1921.7	1918.8	1946.0	1977.6	2006.8	2000.4	1926.7	1912.8	1790.1	1627.3	1430.8
12.5°	1751.5	1760.9	1795.5	1853.9	1944.0	2028.6	2016.7	2019.2	1912.8	1721.8	1468.4
15°	1651.5	1662.9	1682.7	1712.9	1823.7	1974.2	2050.9	2075.6	2030.6	1827.2	1512.9
17.5°	1643.1	1652.5	1655.5	1666.8	1731.7	1886.6	2037.0	2084.1	2135.5	1926.7	1562.9
20°	1707.9	1711.9	1709.4	1701.0	1724.3	1839.1	1993.5	2060.8	2222.1	2032.6	1607.0
22.5°	1830.2	1824.2	1816.8	1785.6	1784.1	1852.4	1969.7	2040.0	2273.6	2120.2	1636.2
25°	1981.6	1969.2	1958.8	1914.8	1894.0	1922.2	1991.0	2047.4	2320.1	2205.3	1656.9
27.5°	2146.9	2150.9	2125.1	2065.7	2033.1	2027.1	2056.8	2098.9	2365.2	2281.5	1668.3
30°	2323.6	2325.6	2291.9	2230.5	2200.8	2162.7	2160.8	2186.0	2413.7	2369.1	1679.2
32.5°	2525.0	2530.5	2475.5	2411.7	2359.7	2310.2	2286.0	2307.3	2500.8	2483.4	1701.5
35°	2816.0	2792.3	2718.0	2621.5	2547.8	2482.9	2445.8	2459.7	2616.6	2620.5	1746.0
37.5°	3115.9	3113.5	3031.3	2892.2	2771.5	2690.8	2627.5	2650.2	2779.4	2804.1	1817.3
40°	3395.6	3402.0	3330.7	3209.5	3054.1	2915.5	2847.7	2863.0	2995.7	3026.8	1903.9
42.5°	3578.2	3574.7	3580.2	3545.5	3389.6	3226.3	3124.3	3132.8	3247.1	3263.4	2012.3
45°	3662.3	3648.9	3695.5	3805.3	3743.5	3571.7	3455.4	3445.0	3507.9	3503.4	2110.8
47.5°	3589.6	3564.8	3671.7	3936.5	4056.3	4004.3	3838.0	3819.2	3765.7	3730.1	2213.2
50°	3227.8	3216.9	3445.5	3874.1	4252.7	4404.2	4281.9	4212.1	3995.9	3897.4	2267.2
52.5°	2883.8	2853.6	3008.0	3555.9	4165.1	4725.9	4751.1	4626.9	4186.9	3945.4	2248.9
55°	2329.5	2292.4	2460.7	2921.4	3818.2	4766.9	5080.7	5015.9	4354.2	3886.0	2211.7
57.5°	1414.9	1378.3	1625.8	2092.5	3053.6	4425.5	4999.5	5065.4	4482.9	3820.7	2187.5
60°	594.9	571.6	668.6	998.7	1949.9	3637.1	4569.0	4733.3	4507.1	3731.1	2197.4
62.5°	309.3	298.9	304.4	399.9	788.4	2394.9	3802.9	4088.9	4262.6	3691.5	2207.3
65°	232.1	224.2	206.9	219.7	306.3	1035.3	2732.9	3115.9	3732.6	3591.0	2140.5
67.5°	190.5	183.1	170.7	166.8	180.6	359.3	1395.1	1893.0	2924.9	3162.9	1900.9
70°	151.9	149.5	145.5	138.1	135.6	174.2	500.4	771.6	1934.1	2230.5	1377.8
72.5°	126.7	127.2	122.7	116.3	107.4	112.3	199.4	263.8	935.9	1069.5	577.1
75°	105.9	105.9	107.4	98.5	89.6	77.2	110.9	128.7	300.4	247.0	123.2
77.5°	83.1	84.1	90.6	83.1	71.8	48.5	60.4	68.8	89.1	71.3	45.0
80°	66.3	65.3	62.9	74.7	64.3	34.1	28.7	31.7	41.6	34.1	22.3
82.5°	46.5	46.0	44.0	50.5	50.0	25.2	18.8	19.3	25.2	21.8	13.9
85°	11.4	13.4	28.2	23.8	20.8	14.8	11.4	12.4	16.3	14.4	7.4
87.5°	4.9	4.9	12.9	15.3	9.9	6.4	4.9	5.4	8.4	8.4	4.5
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°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1326.3	1294.2	1253.6	1210.5	1166.5	1113.5	1079.9	1052.2	1030.4	1013.6	1007.6
5°	1331.3	1269.4	1177.4	1063.1	946.8	837.9	753.7	691.4	639.9	611.7	599.3
7.5°	1330.8	1248.6	1082.4	890.8	701.8	544.9	433.5	364.7	318.7	299.9	288.5
10°	1330.3	1221.4	974.0	699.8	469.2	315.8	232.6	194.0	177.2	170.7	169.8
12.5°	1344.7	1190.3	852.7	515.2	294.5	196.5	161.8	152.9	149.0	147.0	146.5
15°	1352.6	1161.5	725.0	363.8	198.5	155.4	144.5	140.6	139.1	138.1	137.6
17.5°	1361.0	1117.0	603.8	263.3	158.9	141.0	134.6	132.1	131.2	131.2	131.2
20°	1362.5	1069.0	483.5	194.0	141.0	131.6	125.2	122.7	121.3	120.3	120.3
22.5°	1351.6	1012.1	380.1	157.4	130.7	122.7	115.8	111.8	109.4	108.9	108.9
25°	1324.4	931.4	291.5	138.1	122.2	113.8	105.4	101.0	99.0	99.0	99.0
27.5°	1285.3	836.4	225.2	122.7	111.4	102.9	95.5	91.6	91.1	90.6	91.1
30°	1240.7	744.8	172.2	108.9	98.5	91.6	85.6	83.6	84.6	84.6	85.1
32.5°	1196.2	653.3	134.6	98.0	87.1	81.2	78.2	78.2	79.7	79.7	79.7
35°	1158.1	563.7	112.8	89.1	79.2	74.2	72.8	74.2	75.2	75.7	75.7
37.5°	1136.8	486.5	99.5	81.2	72.8	68.8	68.3	69.8	71.8	73.2	73.7
40°	1128.9	427.1	91.6	75.2	66.8	64.3	63.8	65.8	69.3	71.8	72.3
42.5°	1129.4	374.6	84.6	69.3	62.9	59.4	59.4	62.4	65.8	68.3	68.3
45°	1132.8	329.6	77.7	63.3	59.4	53.4	53.9	57.9	60.4	62.9	62.9
47.5°	1135.8	293.5	70.3	56.9	51.5	48.5	49.5	52.5	55.9	59.9	59.9
50°	1118.5	267.7	62.9	50.0	45.0	44.0	46.0	48.5	53.4	57.4	57.9
52.5°	1076.9	244.5	56.4	44.5	40.6	41.1	43.6	45.0	49.0	49.5	50.0
55°	1058.6	232.6	51.5	40.6	37.1	38.6	40.1	40.6	39.6	37.1	37.1
57.5°	1054.6	224.7	46.5	36.6	34.1	36.1	35.6	32.7	29.7	26.7	26.2
60°	1058.6	213.8	42.6	31.7	31.2	31.7	30.2	24.7	20.8	18.8	17.8
62.5°	1035.8	198.0	39.1	27.2	27.2	26.7	22.8	16.8	13.4	11.9	11.4
65°	960.6	166.8	35.6	22.8	22.3	21.3	15.3	11.4	8.9	7.4	6.9
67.5°	812.6	129.2	32.2	18.8	17.8	14.8	9.9	7.4	4.9	4.5	4.0
70°	554.3	80.2	27.2	14.8	13.4	9.4	5.9	4.5	3.0	2.5	2.0
72.5°	200.9	46.5	22.8	11.4	8.9	5.9	3.5	2.0	1.5	1.5	1.0
75°	47.5	32.7	17.3	8.4	5.9	3.5	2.0	1.5	1.0	1.0	0.5
77.5°	21.8	25.2	11.4	4.9	4.0	2.5	1.5	1.0	0.5	0.5	0.0
80°	12.4	17.8	5.4	3.5	3.0	2.0	1.0	0.5	0.5	0.0	0.0
82.5°	6.4	9.9	4.0	3.0	2.5	1.5	1.0	0.0	0.0	0.0	0.0
85°	4.5	4.9	3.0	2.5	2.0	1.5	1.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.0	2.5	2.0	1.5	0.5	0.0	0.0	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)