

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: P674954

Luminaire Tested: **CCW-SA-2D-727-U-T3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P674954
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-727-U-T3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T3 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

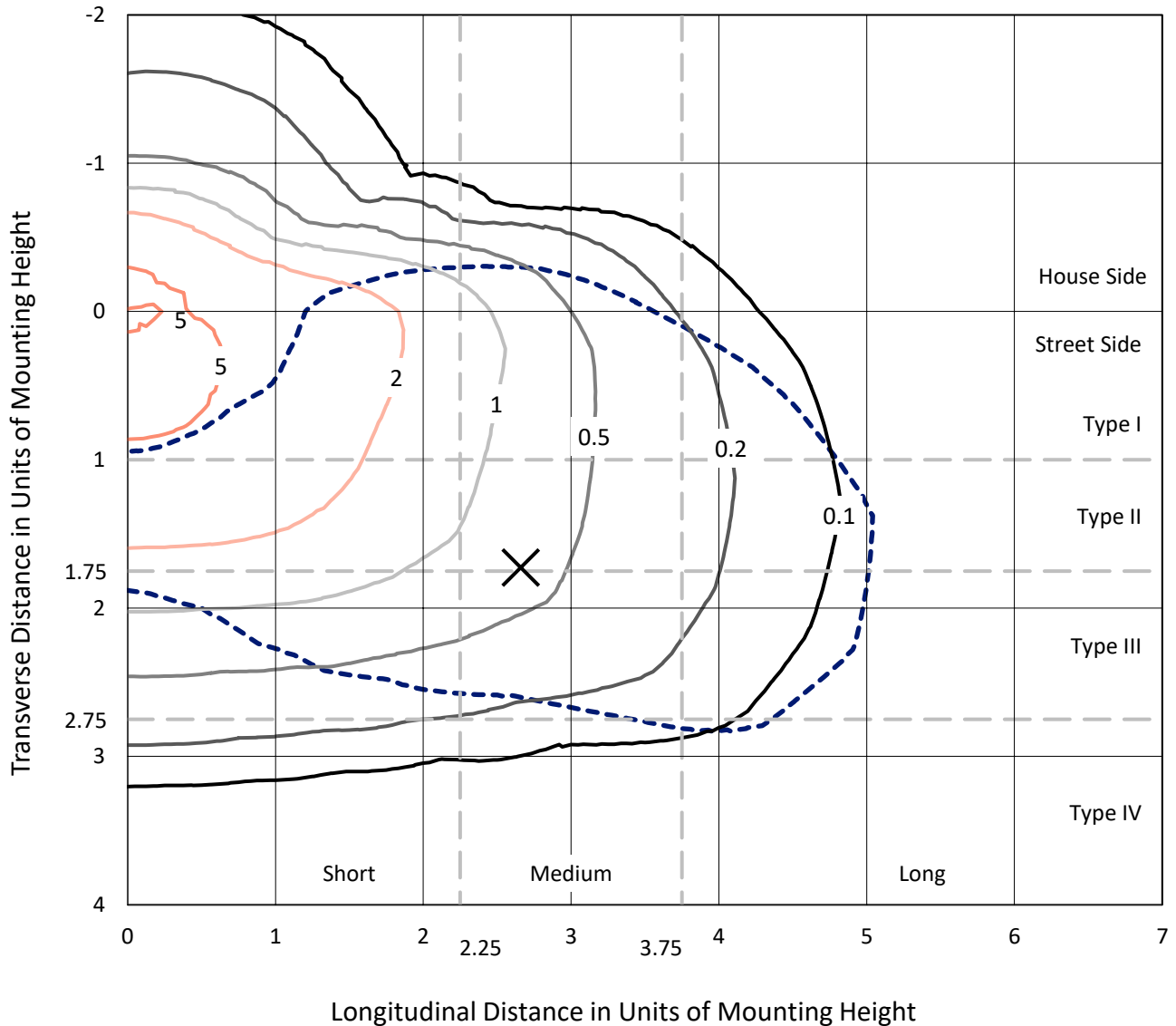
Lumens per Lamp: N/A
Luminaire Lumens: 9423.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 80.8
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

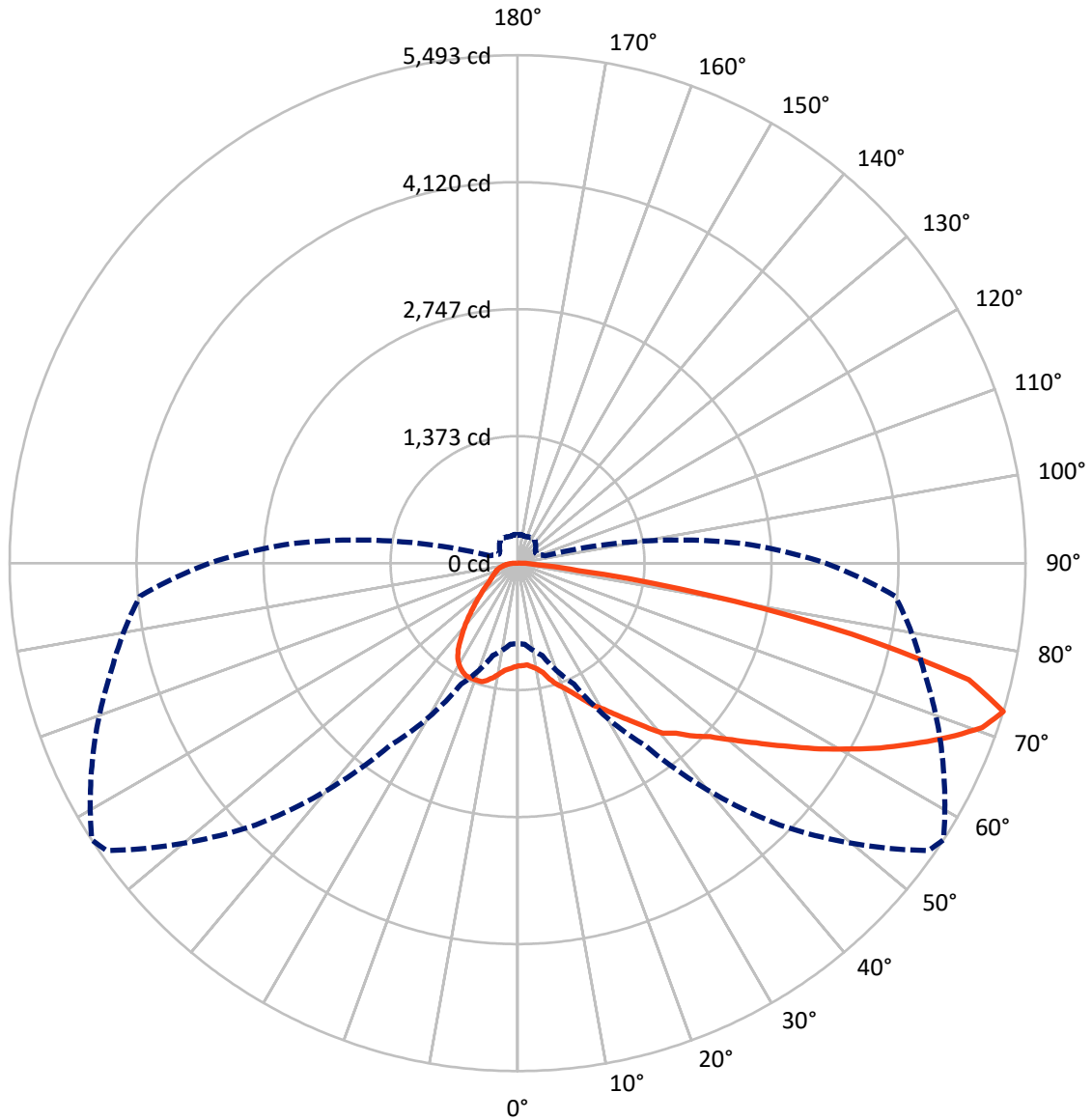
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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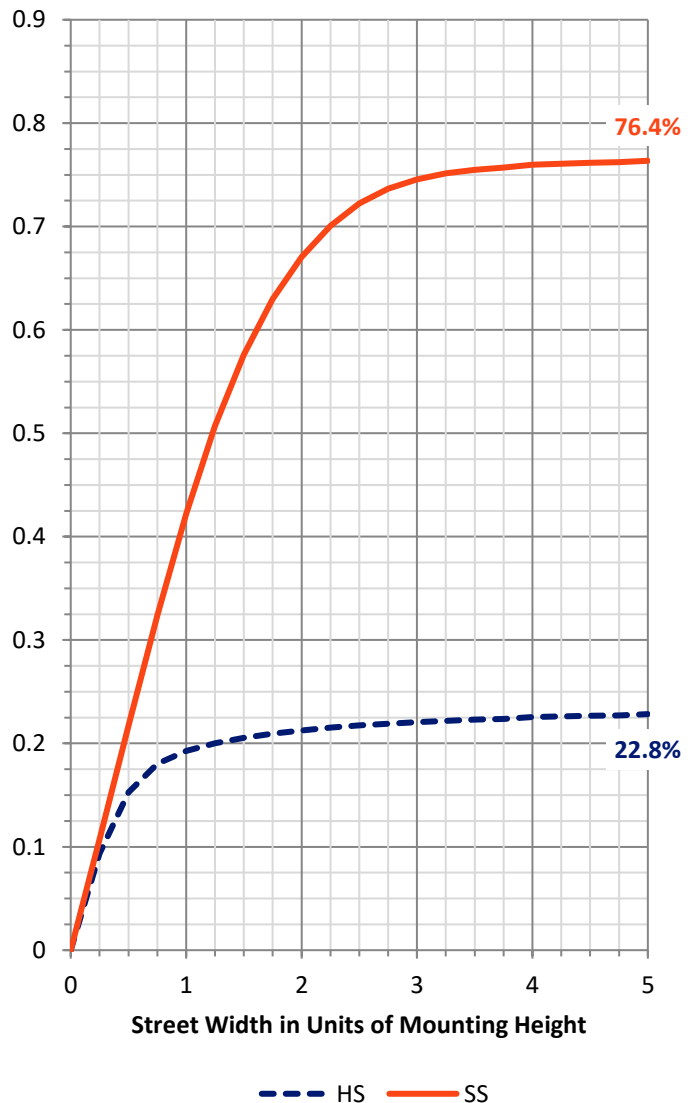
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2200.8	0.0	2200.8
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	7223.1	0.0	7223.1
	% Fixture	76.6	0.0	76.6
Total	Lumens	9423.9	0.0	9423.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	1.2
10°-20°	372.1	3.9
20°-30°	680.2	7.2
30°-40°	998.0	10.6
40°-50°	1374.1	14.6
50°-60°	1884.3	20.0
60°-70°	2271.4	24.1
70°-80°	1513.1	16.1
80°-90°	220.4	2.3
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°	9423.9	100.0
0°-180°	9423.9	100.0



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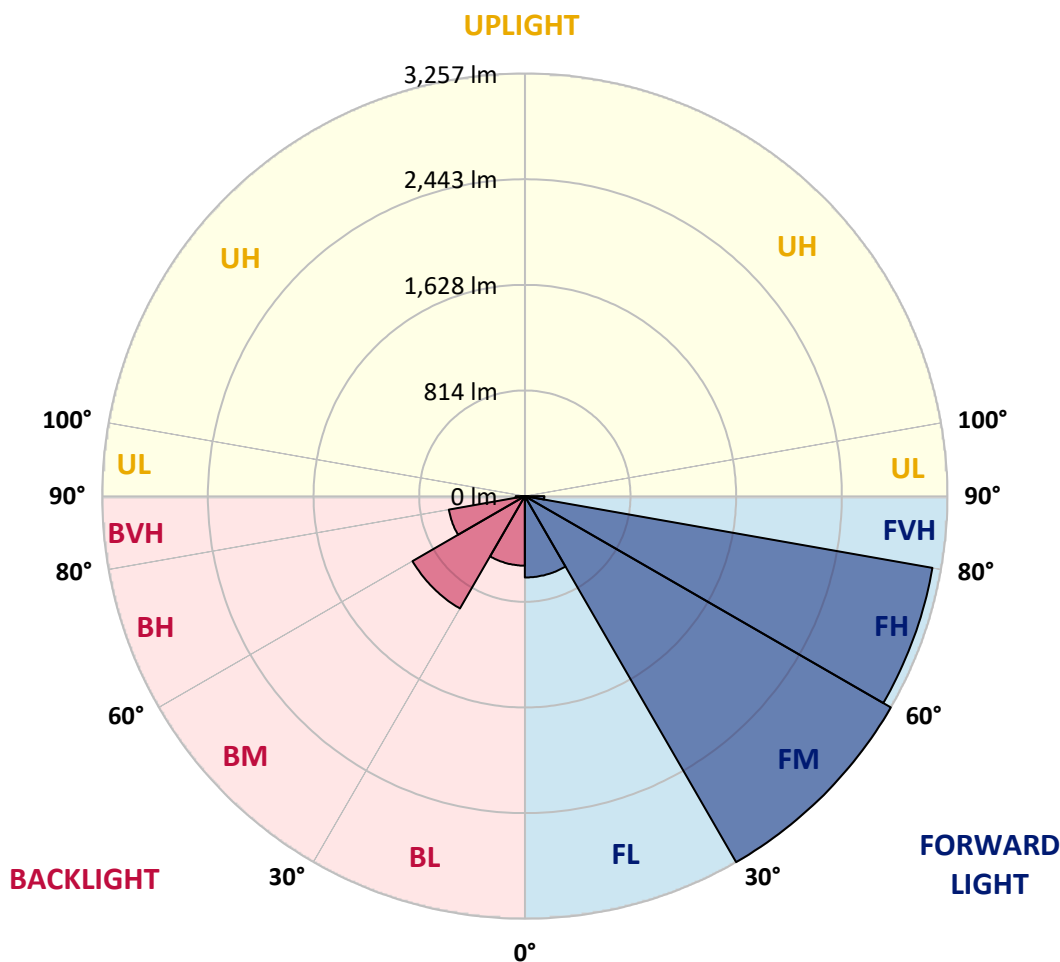
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.9	6.7			
FM (30°-60°)	3256.7	34.6			
FH (60°-80°)	3189.4	33.8			G2/5000
FVH (80°-90°)	150.1	1.6			G2/225
BL (0°-30°)	535.8	5.7	B2/1000		
BM (30°-60°)	999.6	10.6	B1/1000		
BH (60°-80°)	595.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	70.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3
2.5°	1091.7	1095.2	1102.0	1098.6	1098.6	1088.3	1105.5	1108.9	1102.0	1105.5	1112.3
5°	1091.7	1098.6	1108.9	1102.0	1105.5	1102.0	1095.2	1105.5	1105.5	1108.9	1119.2
7.5°	1150.1	1146.7	1146.7	1136.4	1132.9	1129.5	1132.9	1132.9	1126.1	1129.5	1129.5
10°	1215.3	1215.3	1208.5	1208.5	1201.6	1184.4	1167.3	1163.8	1153.5	1157.0	1157.0
12.5°	1284.0	1290.8	1297.7	1277.1	1270.2	1242.8	1232.5	1211.9	1211.9	1205.0	1201.6
15°	1369.8	1359.5	1366.4	1359.5	1342.3	1314.9	1297.7	1301.1	1277.1	1270.2	1259.9
17.5°	1445.3	1448.8	1438.5	1431.6	1400.7	1380.1	1383.5	1380.1	1349.2	1338.9	1321.7
20°	1534.6	1531.2	1531.2	1510.6	1483.1	1455.6	1445.3	1441.9	1448.8	1428.2	1387.0
22.5°	1627.3	1613.6	1613.6	1596.4	1558.6	1541.5	1534.6	1520.9	1527.7	1510.6	1448.8
25°	1702.8	1702.8	1726.8	1692.5	1671.9	1637.6	1623.9	1627.3	1630.7	1596.4	1524.3
27.5°	1802.4	1785.2	1809.2	1792.1	1781.8	1744.0	1726.8	1737.1	1730.3	1692.5	1593.0
30°	1929.4	1932.8	1919.1	1895.1	1881.3	1853.9	1843.6	1833.3	1843.6	1795.5	1668.5
32.5°	2087.3	2097.6	2063.3	2035.8	2011.8	1984.3	1963.7	1953.4	1963.7	1891.6	1726.8
35°	2269.3	2279.6	2252.1	2221.2	2193.8	2125.1	2107.9	2090.8	2053.0	1936.3	1781.8
37.5°	2437.5	2423.8	2416.9	2416.9	2365.4	2265.8	2255.5	2245.2	2173.2	2025.5	1857.3
40°	2550.8	2568.0	2561.1	2554.2	2547.4	2454.7	2434.1	2416.9	2296.7	2159.4	1963.7
42.5°	2677.8	2667.5	2695.0	2705.3	2681.3	2653.8	2571.4	2513.0	2406.6	2296.7	2121.7
45°	2828.9	2822.0	2832.3	2870.1	2835.7	2846.0	2708.7	2667.5	2533.6	2468.4	2320.8
47.5°	2962.8	2979.9	3031.4	3041.7	3014.3	3062.3	2870.1	2804.8	2719.0	2667.5	2526.8
50°	3021.1	3041.7	3158.5	3230.5	3234.0	3309.5	3031.4	3004.0	2887.2	2907.8	2784.2
52.5°	2973.1	3038.3	3179.0	3367.9	3484.6	3560.1	3244.3	3230.5	3124.1	3189.3	3065.8
55°	3017.7	3079.5	3172.2	3436.5	3731.8	3748.9	3539.5	3488.0	3381.6	3470.9	3357.6
57.5°	3038.3	3004.0	3179.0	3512.1	3913.7	3958.4	3821.0	3783.3	3700.9	3786.7	3721.5
60°	2876.9	2918.1	3082.9	3491.5	3924.0	4181.5	4136.9	4082.0	4006.4	4085.4	4047.6
62.5°	2695.0	2722.4	2901.0	3367.9	3982.4	4342.9	4442.4	4401.2	4294.8	4363.5	4428.7
65°	2465.0	2468.4	2667.5	3148.2	3869.1	4435.6	4710.2	4706.8	4631.3	4614.1	4717.1
67.5°	2183.5	2210.9	2368.8	2914.7	3714.6	4538.6	4974.6	5026.1	4875.0	4741.1	4778.9
70°	1675.4	1702.8	1853.9	2389.4	3398.8	4507.7	5300.7	5328.2	5032.9	4693.0	4596.9
72.5°	872.0	878.9	1033.4	1441.9	2410.0	4003.0	5420.9	5493.0	5074.1	4552.3	4099.1
75°	288.4	288.4	353.6	549.3	1136.4	2561.1	4909.3	5039.8	4871.6	4202.1	3354.1
77.5°	171.7	175.1	209.4	274.6	453.2	1023.1	3460.6	3690.6	3985.8	3573.9	2451.2
80°	123.6	127.0	157.9	188.8	271.2	329.6	1737.1	2056.4	2447.8	2300.2	1308.0
82.5°	92.7	92.7	123.6	140.8	185.4	195.7	484.1	662.6	1057.4	823.9	360.5
85°	96.1	96.1	96.1	99.6	127.0	113.3	202.6	216.3	309.0	271.2	99.6
87.5°	34.3	37.8	96.1	65.2	65.2	48.1	79.0	85.8	109.9	113.3	37.8
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°	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3
2.5°	1115.8	1115.8	1119.2	1119.2	1126.1	1132.9	1143.2	1136.4	1136.4	1139.8	1136.4
5°	1112.3	1115.8	1126.1	1143.2	1150.1	1153.5	1174.1	1174.1	1174.1	1181.0	1181.0
7.5°	1126.1	1132.9	1150.1	1167.3	1170.7	1181.0	1208.5	1215.3	1232.5	1239.3	1242.8
10°	1160.4	1170.7	1184.4	1205.0	1218.8	1232.5	1253.1	1277.1	1273.7	1294.3	1297.7
12.5°	1211.9	1208.5	1232.5	1253.1	1266.8	1287.4	1294.3	1294.3	1294.3	1294.3	1301.1
15°	1253.1	1259.9	1280.5	1294.3	1311.4	1308.0	1294.3	1280.5	1284.0	1280.5	1280.5
17.5°	1314.9	1314.9	1332.0	1335.5	1342.3	1308.0	1287.4	1287.4	1297.7	1297.7	1290.8
20°	1376.7	1373.2	1380.1	1376.7	1332.0	1290.8	1287.4	1290.8	1294.3	1290.8	1287.4
22.5°	1435.0	1428.2	1417.9	1404.1	1325.2	1287.4	1280.5	1263.4	1246.2	1246.2	1235.9
25°	1486.5	1479.7	1452.2	1411.0	1321.7	1266.8	1232.5	1191.3	1170.7	1160.4	1174.1
27.5°	1534.6	1520.9	1483.1	1411.0	1290.8	1211.9	1146.7	1095.2	1078.0	1064.3	1078.0
30°	1599.8	1575.8	1524.3	1400.7	1242.8	1126.1	1036.8	975.0	957.8	937.2	944.1
32.5°	1658.2	1603.3	1558.6	1369.8	1181.0	1029.9	926.9	865.1	834.2	817.1	830.8
35°	1720.0	1665.1	1572.4	1321.7	1084.9	913.2	810.2	751.8	727.8	703.8	703.8
37.5°	1781.8	1750.9	1593.0	1232.5	968.1	803.3	710.7	666.0	624.8	580.2	580.2
40°	1912.2	1871.0	1617.0	1129.5	851.4	696.9	631.7	573.3	532.1	470.3	466.9
42.5°	2049.6	1960.3	1617.0	1005.9	748.4	621.4	559.6	497.8	422.3	384.5	387.9
45°	2224.6	2121.7	1572.4	896.0	645.4	559.6	490.9	412.0	377.6	353.6	353.6
47.5°	2444.4	2283.0	1517.4	775.9	563.0	504.7	418.8	370.8	346.7	326.1	322.7
50°	2705.3	2430.6	1448.8	672.9	494.4	453.2	381.1	343.3	322.7	309.0	309.0
52.5°	2979.9	2646.9	1400.7	580.2	439.4	384.5	353.6	329.6	312.4	302.1	298.7
55°	3258.0	2863.2	1366.4	480.6	387.9	353.6	346.7	326.1	319.3	309.0	302.1
57.5°	3570.4	3041.7	1359.5	412.0	346.7	339.9	353.6	336.4	326.1	315.8	305.5
60°	3906.9	3282.0	1297.7	357.0	326.1	333.0	343.3	326.1	319.3	309.0	302.1
62.5°	4239.9	3460.6	1129.5	315.8	305.5	312.4	326.1	312.4	302.1	305.5	309.0
65°	4377.2	3474.3	875.4	284.9	281.5	284.9	305.5	302.1	291.8	312.4	312.4
67.5°	4239.9	3350.7	618.0	257.5	257.5	274.6	309.0	315.8	305.5	333.0	329.6
70°	3927.5	3045.2	418.8	240.3	247.2	291.8	319.3	312.4	298.7	333.0	326.1
72.5°	3333.5	2437.5	305.5	223.2	233.5	278.1	315.8	309.0	298.7	312.4	298.7
75°	2502.7	1733.7	240.3	202.6	206.0	250.6	326.1	309.0	281.5	274.6	264.3
77.5°	1671.9	1071.1	185.4	178.5	178.5	219.7	312.4	288.4	254.0	243.8	240.3
80°	796.5	429.1	147.6	151.1	154.5	188.8	284.9	257.5	230.0	216.3	216.3
82.5°	254.0	161.4	123.6	123.6	123.6	154.5	236.9	216.3	199.1	188.8	171.7
85°	89.3	89.3	106.4	109.9	99.6	113.3	195.7	185.4	164.8	137.3	133.9
87.5°	34.3	51.5	72.1	85.8	61.8	79.0	140.8	130.5	120.2	89.3	85.8
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)