

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: P676571

Luminaire Tested: **CCW-SA-2D-740-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676571
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-740-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

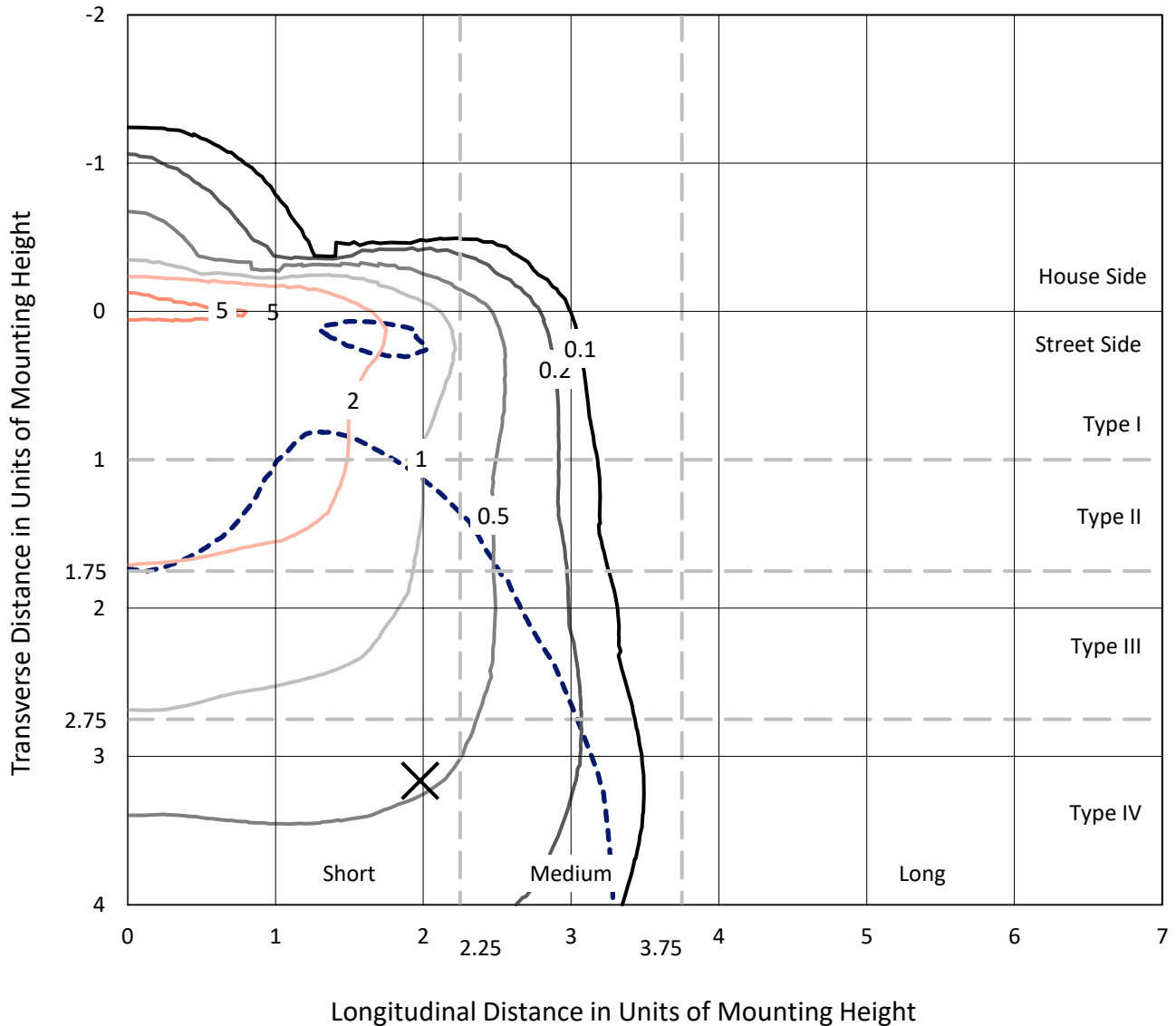
Lumens per Lamp: N/A
Luminaire Lumens: 8008.2 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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

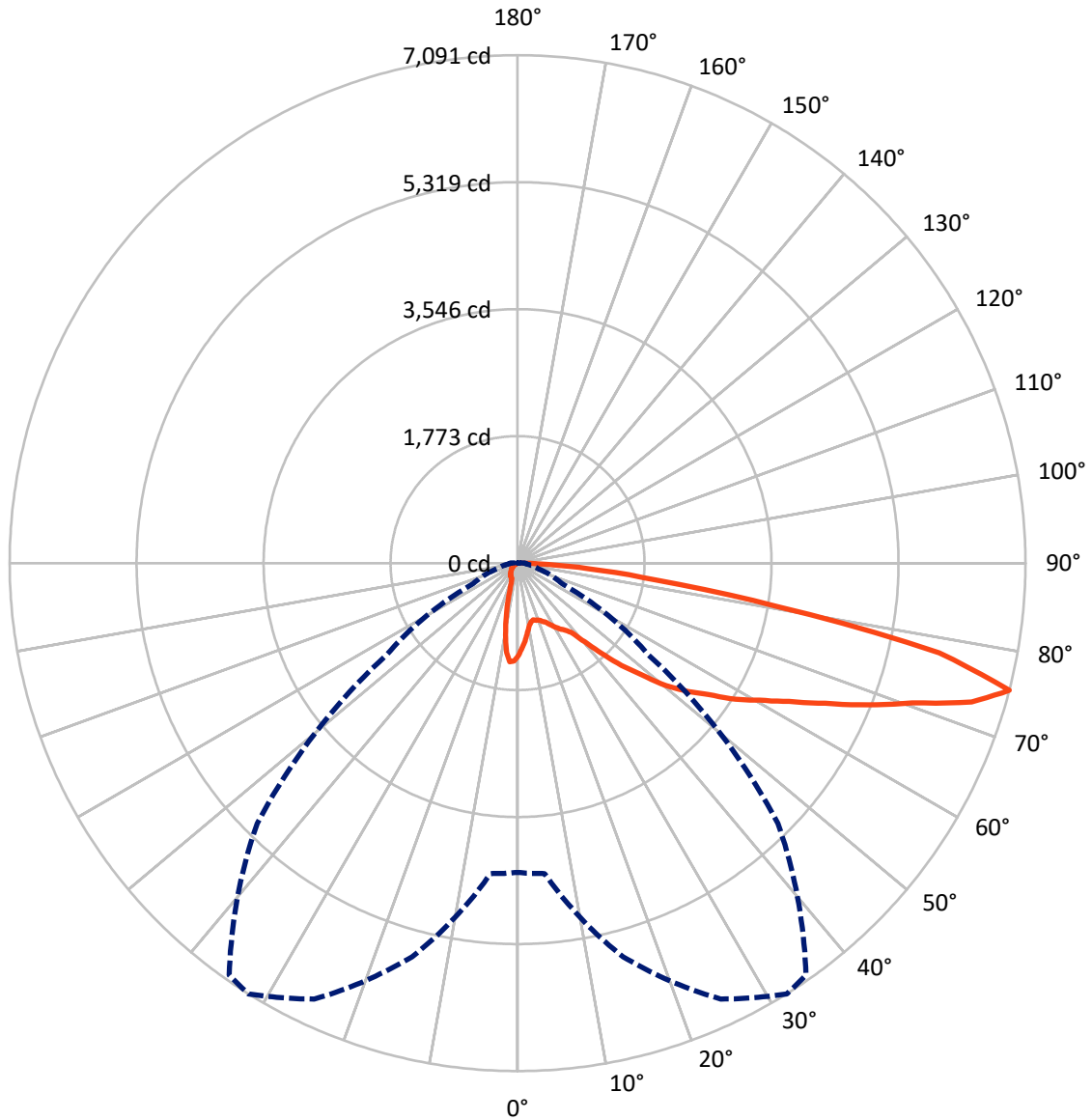
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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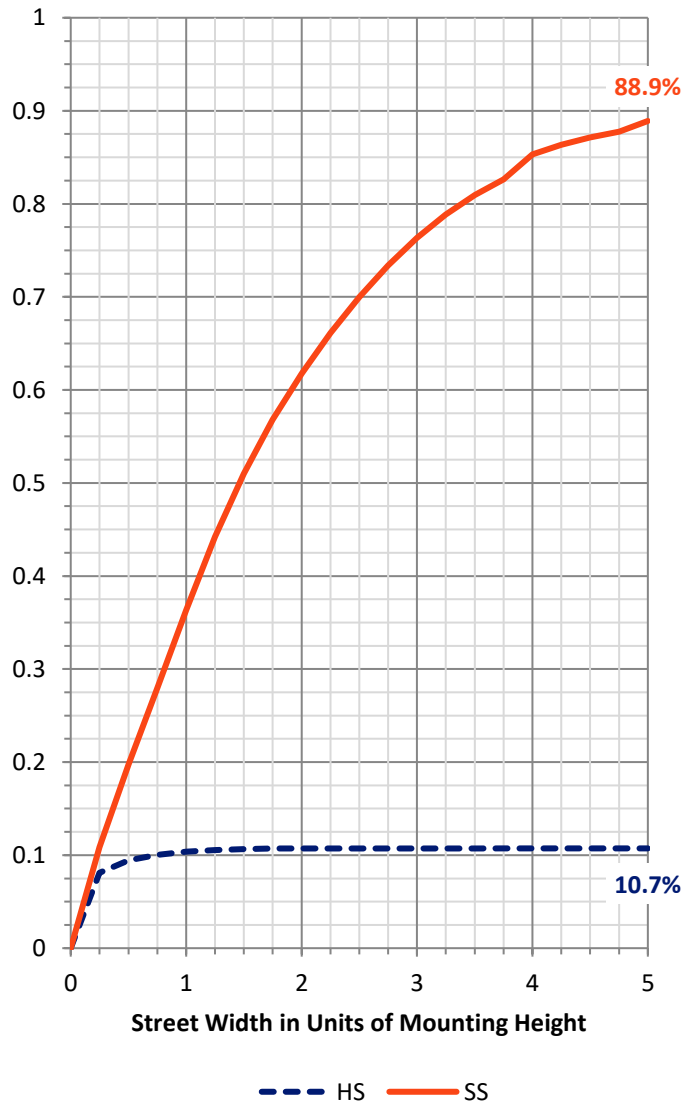
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.2	0.0	865.2
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	7143.1	0.0	7143.1
	% Fixture	89.2	0.0	89.2
Total	Lumens	8008.2	0.0	8008.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	1.4
10°-20°	258.0	3.2
20°-30°	386.3	4.8
30°-40°	592.9	7.4
40°-50°	1036.9	12.9
50°-60°	1620.8	20.2
60°-70°	2095.5	26.2
70°-80°	1706.7	21.3
80°-90°	197.6	2.5
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°	8008.2	100.0
0°-180°	8008.2	100.0



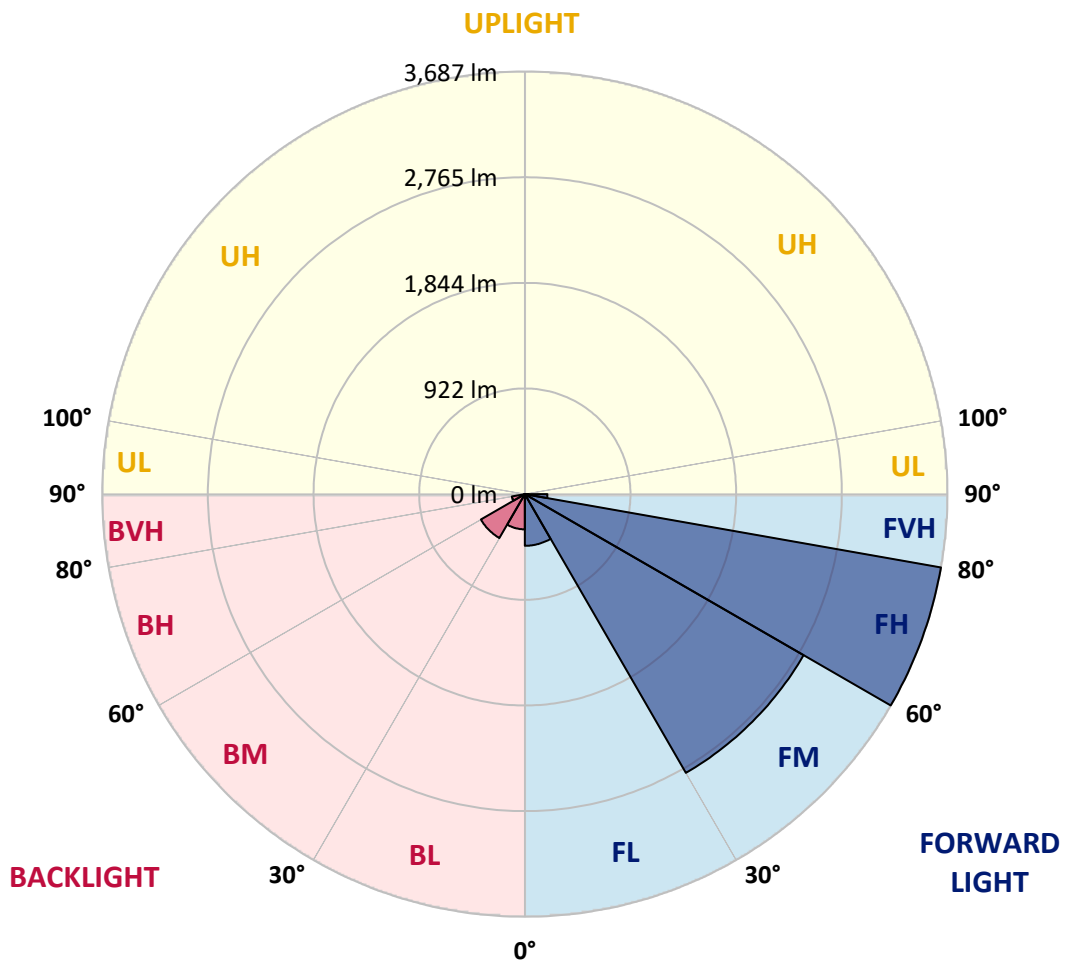
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.6	5.6			
FM (30°-60°)	2808.0	35.1			
FH (60°-80°)	3687.1	46.0			G2/5000
FVH (80°-90°)	197.4	2.5			G2/225
BL (0°-30°)	307.3	3.8	B1/500		
BM (30°-60°)	442.6	5.5	B1/1000		
BH (60°-80°)	115.1	1.4	B1/500		G1/500
BVH (80°-90°)	0.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1
2.5°	1159.7	1176.1	1174.0	1184.3	1186.3	1192.5	1206.9	1206.9	1247.9	1276.7	1295.1
5°	1055.0	1044.7	1048.8	1061.1	1091.9	1089.9	1124.8	1143.2	1192.5	1233.6	1276.7
7.5°	925.7	923.6	931.8	960.6	983.2	1001.6	1038.6	1085.8	1151.5	1213.0	1289.0
10°	843.6	839.5	855.9	864.1	890.8	903.1	960.6	1034.5	1112.5	1200.7	1289.0
12.5°	825.1	810.7	819.0	816.9	841.5	847.7	903.1	993.4	1087.8	1196.6	1305.4
15°	835.4	825.1	816.9	816.9	823.1	827.2	886.7	966.7	1073.5	1202.8	1342.3
17.5°	868.2	862.1	837.4	812.8	839.5	839.5	876.4	960.6	1075.5	1221.2	1387.5
20°	907.2	901.1	857.9	829.2	847.7	868.2	907.2	974.9	1081.7	1235.6	1457.3
22.5°	950.3	950.3	890.8	857.9	882.6	884.6	954.4	1020.1	1106.3	1272.6	1502.4
25°	1003.7	999.6	942.1	905.2	913.4	935.9	999.6	1069.4	1151.5	1323.9	1586.6
27.5°	1073.5	1067.3	999.6	962.6	972.9	997.5	1069.4	1139.1	1192.5	1344.4	1658.4
30°	1130.9	1124.8	1069.4	1013.9	1036.5	1059.1	1143.2	1204.8	1243.8	1383.4	1740.5
32.5°	1143.2	1133.0	1096.0	1071.4	1096.0	1139.1	1204.8	1268.5	1328.0	1481.9	1896.5
35°	1284.9	1247.9	1151.5	1112.5	1149.4	1163.8	1272.6	1385.4	1442.9	1559.9	2071.0
37.5°	1555.8	1520.9	1393.7	1284.9	1233.6	1250.0	1391.6	1531.2	1586.6	1705.6	2261.9
40°	1888.3	1830.8	1695.4	1549.6	1445.0	1424.4	1516.8	1722.1	1775.4	1888.3	2512.3
42.5°	2268.0	2212.6	2003.2	1830.8	1724.1	1697.4	1711.8	1943.7	1988.9	2056.6	2676.5
45°	2541.0	2512.3	2276.2	2122.3	2038.1	2009.4	1974.5	2185.9	2243.4	2266.0	2914.6
47.5°	2699.0	2678.5	2547.2	2442.5	2329.6	2298.8	2321.4	2522.5	2483.5	2502.0	3142.4
50°	2910.5	2857.1	2678.5	2711.4	2688.8	2680.6	2719.6	2807.8	2750.4	2697.0	3390.7
52.5°	3080.8	2986.4	2861.2	2941.2	2976.1	3006.9	3144.4	3210.1	2953.6	2871.5	3550.8
55°	3185.5	3095.2	3128.0	3201.9	3238.9	3380.5	3542.6	3493.4	3087.0	3011.0	3764.3
57.5°	3279.9	3286.1	3374.3	3396.9	3585.7	3610.4	3922.3	3762.2	3181.4	3138.3	3848.5
60°	3507.7	3485.2	3557.0	3702.7	3883.3	4020.9	4318.5	3942.9	3228.6	3204.0	3825.9
62.5°	3918.2	3778.7	3803.3	3988.0	4252.8	4402.6	4546.3	4025.0	3216.3	3214.2	3758.1
65°	4439.6	4279.5	4205.6	4378.0	4720.8	4932.2	4802.9	4117.3	3134.2	3191.7	3505.7
67.5°	4872.7	4874.7	4737.2	4833.7	5281.1	5326.3	5045.1	4098.9	2996.7	3013.1	2889.9
70°	5371.4	5439.1	5318.0	5619.8	5843.5	5872.2	5322.2	3947.0	2701.1	2272.1	1660.5
72.5°	5498.7	5533.6	5911.2	6375.1	6627.5	6635.8	5595.1	3440.0	1777.5	1003.7	515.2
75°	4318.5	4351.3	5689.6	6715.8	7091.4	7019.6	5139.5	2233.1	691.7	293.5	123.2
77.5°	2409.6	2419.9	3532.4	5428.9	6015.9	5726.5	3600.1	870.3	279.1	168.3	57.5
80°	658.9	773.8	1309.5	2676.5	3674.0	3606.3	1713.8	283.2	180.6	131.4	26.7
82.5°	158.0	170.4	420.8	1184.3	1941.7	2025.8	511.1	143.7	125.2	108.8	14.4
85°	57.5	63.6	129.3	576.8	997.5	915.4	153.9	71.8	92.4	84.2	6.2
87.5°	20.5	20.5	41.1	188.8	291.5	219.6	51.3	24.6	47.2	51.3	2.1
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°	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1
2.5°	1297.2	1297.2	1325.9	1350.6	1358.8	1369.0	1358.8	1381.3	1379.3	1369.0	1373.1
5°	1299.2	1336.2	1360.8	1377.2	1385.4	1383.4	1387.5	1362.9	1348.5	1338.2	1328.0
7.5°	1309.5	1344.4	1389.5	1385.4	1362.9	1315.7	1278.7	1213.0	1149.4	1147.4	1137.1
10°	1344.4	1375.2	1401.9	1385.4	1303.3	1159.7	1042.7	954.4	874.4	837.4	841.5
12.5°	1369.0	1426.5	1414.2	1330.0	1159.7	970.8	798.4	669.1	597.3	529.5	529.5
15°	1420.3	1440.9	1436.8	1250.0	983.2	757.4	548.0	416.7	340.7	309.9	305.8
17.5°	1469.6	1492.2	1422.4	1128.9	808.7	509.0	332.5	258.6	248.4	244.2	246.3
20°	1531.2	1533.2	1410.1	1007.8	607.5	322.2	238.1	231.9	234.0	231.9	231.9
22.5°	1596.9	1611.2	1367.0	837.4	404.3	234.0	221.7	223.7	223.7	223.7	229.9
25°	1683.1	1660.5	1299.2	675.3	264.8	215.5	215.5	217.6	217.6	217.6	219.6
27.5°	1740.5	1709.7	1213.0	486.4	207.3	203.2	207.3	207.3	211.4	211.4	211.4
30°	1859.6	1779.5	1104.2	314.0	186.8	192.9	197.0	201.1	203.2	207.3	209.4
32.5°	1951.9	1841.1	968.8	209.4	170.4	174.5	184.7	192.9	201.1	199.1	199.1
35°	2120.2	1941.7	843.6	166.3	156.0	156.0	166.3	180.6	192.9	197.0	197.0
37.5°	2313.2	2023.8	669.1	151.9	143.7	143.7	149.8	166.3	182.7	190.9	186.8
40°	2473.3	2118.2	494.7	141.6	133.4	133.4	137.5	149.8	168.3	182.7	184.7
42.5°	2586.2	2188.0	334.6	131.4	125.2	123.2	129.3	135.5	149.8	170.4	174.5
45°	2688.8	2224.9	207.3	121.1	117.0	117.0	117.0	123.2	133.4	151.9	156.0
47.5°	2871.5	2266.0	149.8	112.9	106.7	108.8	110.8	112.9	121.1	125.2	127.3
50°	3025.4	2296.8	123.2	104.7	100.6	102.6	102.6	102.6	106.7	100.6	100.6
52.5°	3142.4	2266.0	104.7	96.5	92.4	94.4	92.4	92.4	88.3	80.0	80.0
55°	3228.6	2210.6	84.2	88.3	88.3	88.3	84.2	78.0	69.8	63.6	63.6
57.5°	3251.2	2116.1	65.7	73.9	80.0	80.0	71.8	63.6	53.4	47.2	45.2
60°	3216.3	1910.9	49.3	53.4	61.6	63.6	57.5	47.2	36.9	30.8	30.8
62.5°	3091.1	1748.7	39.0	34.9	45.2	47.2	41.1	30.8	20.5	14.4	12.3
65°	2853.0	1498.3	28.7	24.6	30.8	32.8	26.7	14.4	6.2	2.1	0.0
67.5°	2288.5	1128.9	18.5	16.4	20.5	20.5	12.3	4.1	0.0	0.0	0.0
70°	1266.4	634.2	12.3	8.2	10.3	6.2	2.1	0.0	0.0	0.0	0.0
72.5°	365.3	180.6	6.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	98.5	43.1	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	43.1	16.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	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)