

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: P677103

Luminaire Tested: **CCW-SA-2D-722-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677103
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-722-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

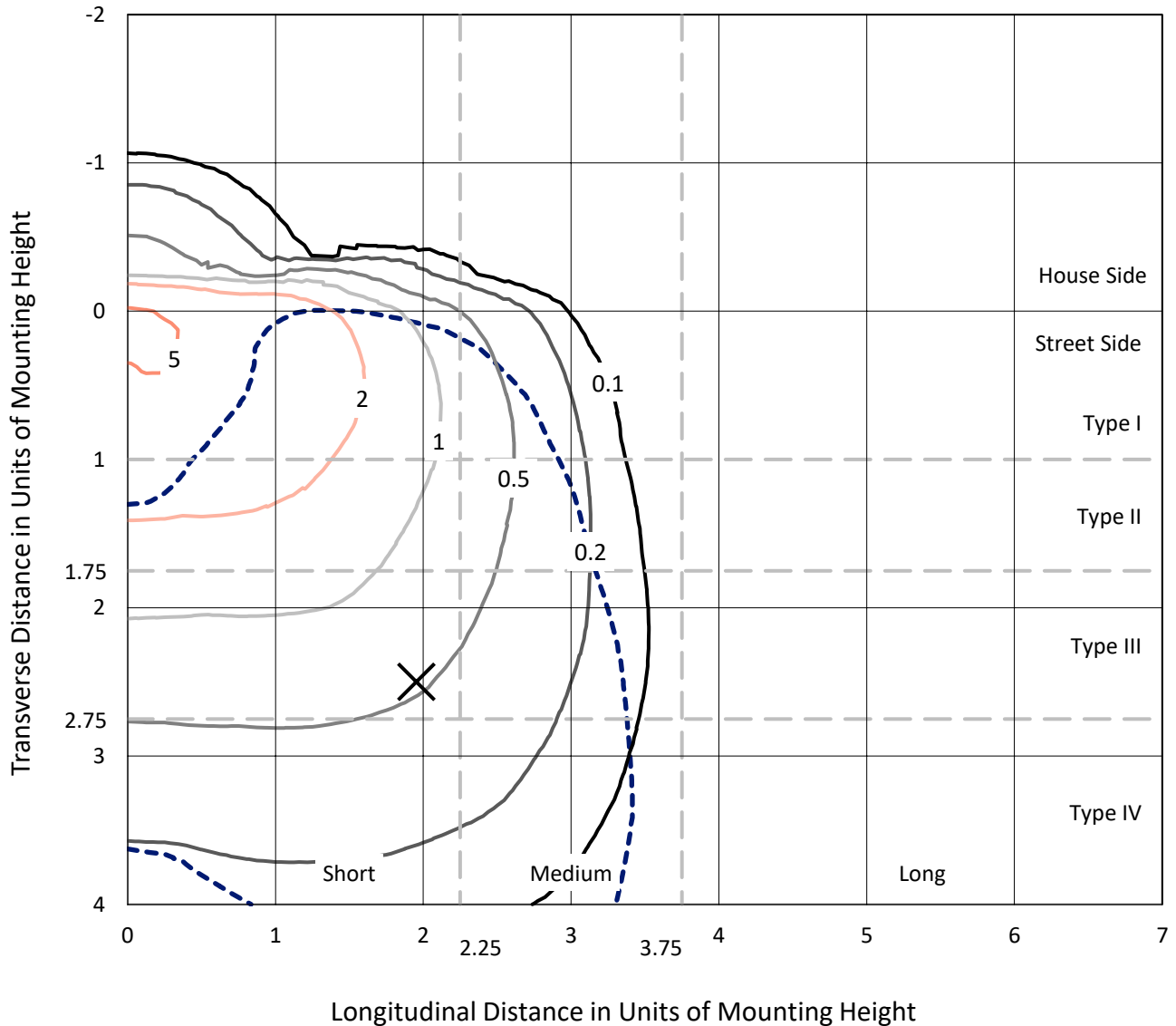
Lumens per Lamp: N/A
Luminaire Lumens: 6785.9 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

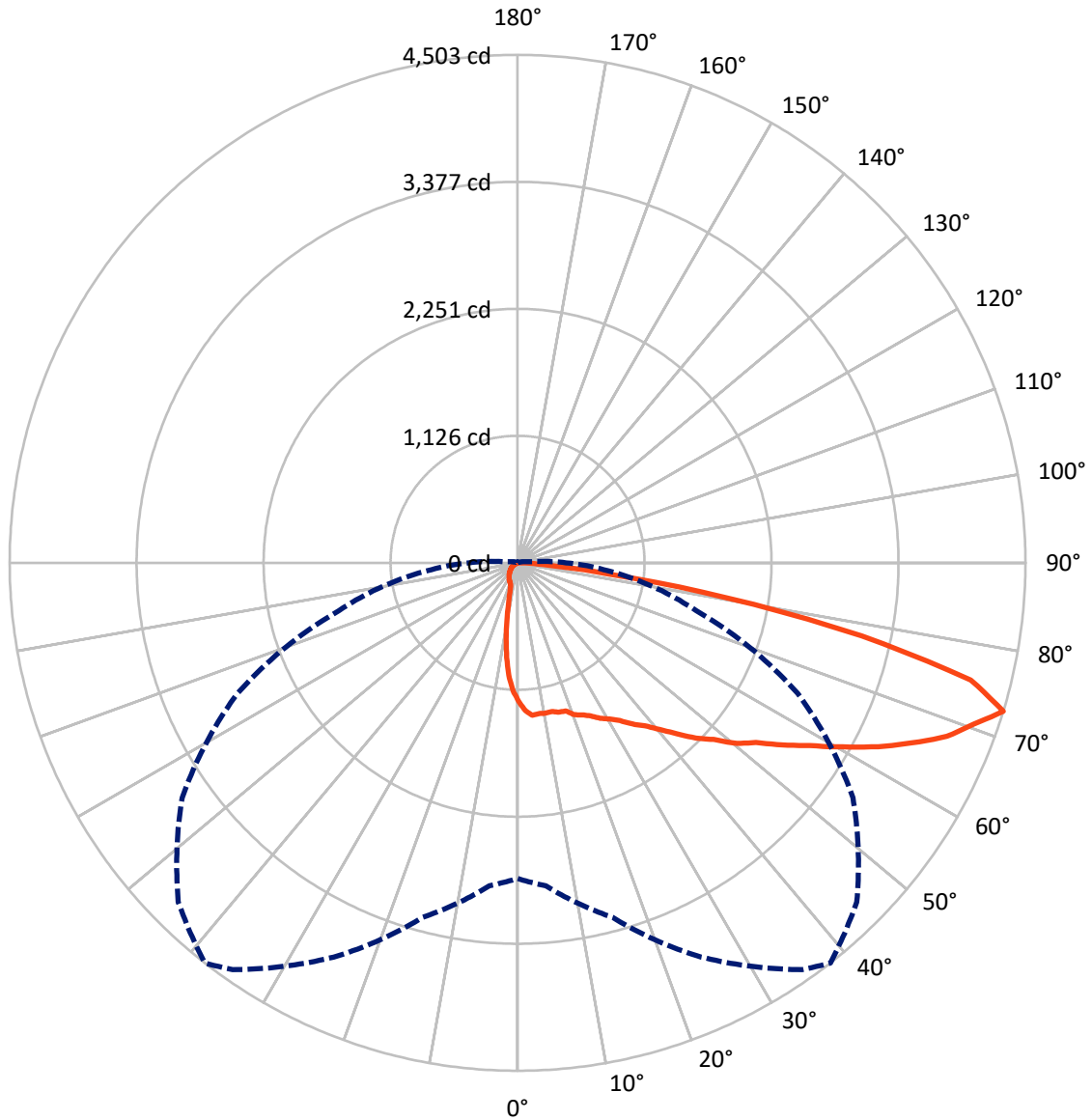
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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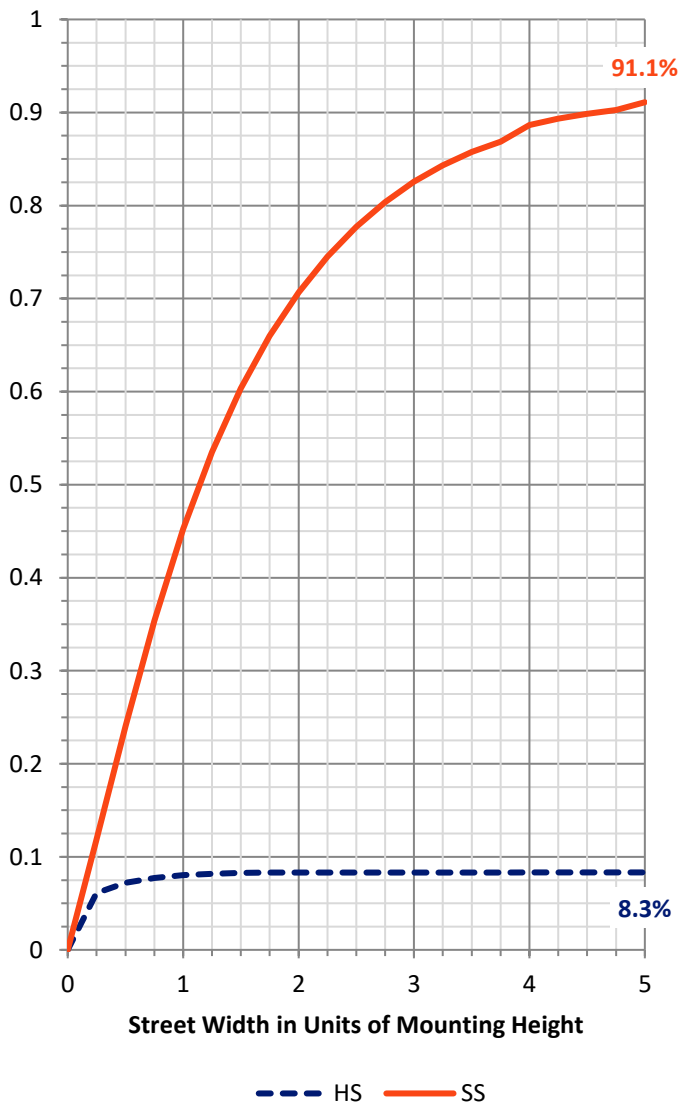
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	568.3	0.0	568.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6217.6	0.0	6217.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	6785.9	0.0	6785.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.6
10°-20°	263.0	3.9
20°-30°	421.6	6.2
30°-40°	636.5	9.4
40°-50°	968.8	14.3
50°-60°	1363.9	20.1
60°-70°	1666.0	24.6
70°-80°	1209.8	17.8
80°-90°	149.0	2.2
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°	6785.9	100.0
0°-180°	6785.9	100.0

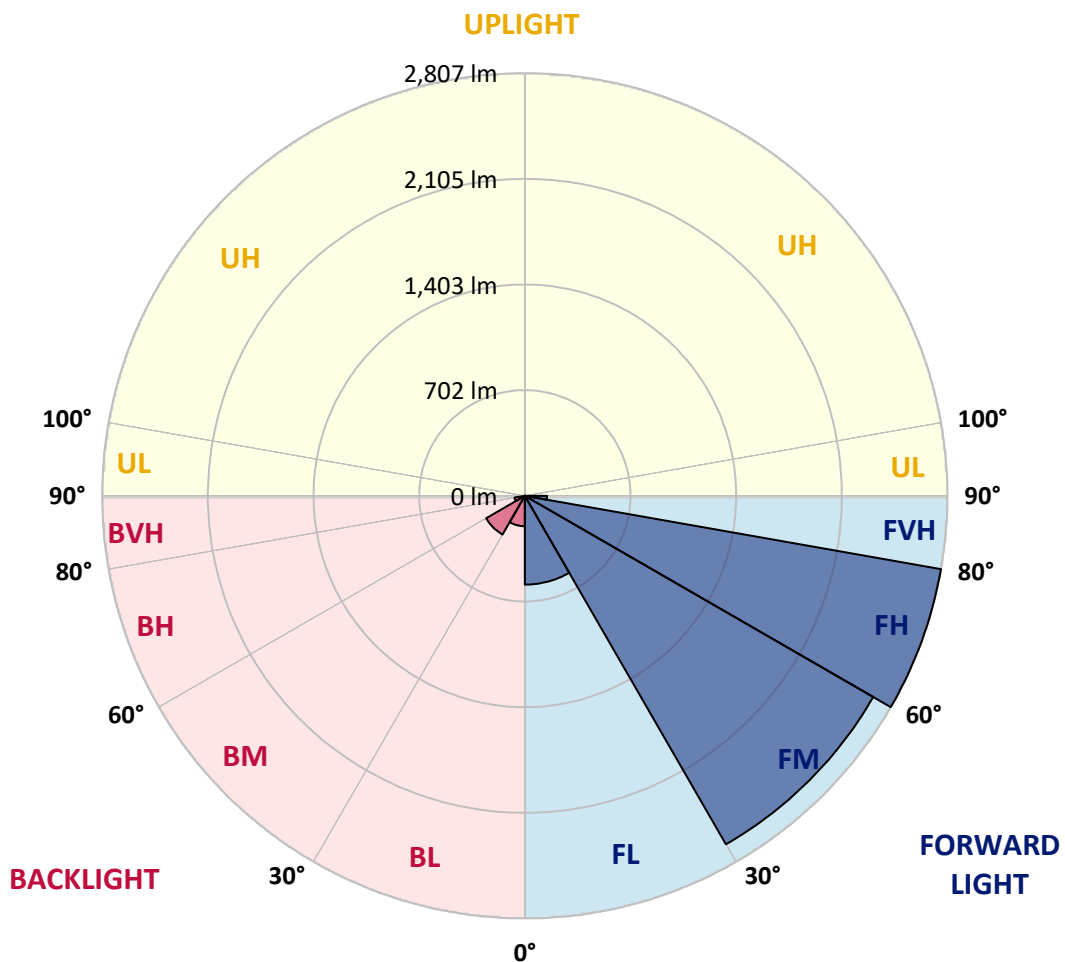


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.2	8.7			
FM (30°-60°)	2672.3	39.4			
FH (60°-80°)	2806.8	41.4			G2/5000
FVH (80°-90°)	148.2	2.2			G2/225
BL (0°-30°)	201.8	3.0	B1/500		
BM (30°-60°)	296.9	4.4	B1/1000		
BH (60°-80°)	68.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.8	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°	35°	38°	45°	55°	65°	75°	85°
0°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1348.1	1348.1	1360.9	1348.1	1343.4	1313.1	1314.7	1298.8	1282.9	1260.6	1239.9
5°	1364.0	1375.2	1383.1	1372.0	1354.5	1357.7	1368.8	1338.6	1295.6	1268.5	1222.4
7.5°	1357.7	1381.5	1375.2	1368.8	1357.7	1349.7	1333.8	1321.1	1300.4	1274.9	1220.8
10°	1352.9	1360.9	1362.4	1357.7	1333.8	1356.1	1338.6	1317.9	1292.4	1262.2	1195.3
12.5°	1335.4	1335.4	1349.7	1338.6	1341.8	1352.9	1344.9	1340.2	1313.1	1287.6	1228.8
15°	1316.3	1322.7	1344.9	1362.4	1378.4	1373.6	1368.8	1354.5	1330.6	1302.0	1239.9
17.5°	1321.1	1324.3	1359.3	1391.1	1383.1	1380.0	1405.4	1375.2	1351.3	1319.5	1249.4
20°	1338.6	1348.1	1387.9	1429.3	1437.3	1437.3	1427.7	1410.2	1376.8	1333.8	1267.0
22.5°	1356.1	1359.3	1424.5	1477.0	1485.0	1464.3	1472.3	1421.3	1389.5	1365.6	1284.5
25°	1422.9	1416.6	1486.6	1528.0	1523.2	1502.5	1494.6	1450.0	1437.3	1394.3	1322.7
27.5°	1513.7	1486.6	1555.0	1580.5	1555.0	1561.4	1539.1	1491.4	1464.3	1438.8	1340.2
30°	1569.4	1585.3	1621.9	1647.4	1604.4	1606.0	1594.8	1542.3	1500.9	1507.3	1399.1
32.5°	1655.3	1666.5	1693.5	1704.7	1671.2	1668.0	1656.9	1615.5	1585.3	1578.9	1478.6
35°	1747.6	1768.3	1769.9	1773.1	1742.9	1755.6	1739.7	1680.8	1696.7	1707.8	1574.1
37.5°	1838.4	1819.3	1851.1	1865.4	1832.0	1832.0	1836.8	1797.0	1825.6	1859.0	1709.4
40°	1873.4	1881.3	1937.0	1925.9	1965.7	1941.8	1959.3	1949.8	1973.6	2050.0	1900.4
42.5°	1910.0	1919.5	1994.3	2015.0	2062.8	2070.7	2096.2	2097.8	2167.8	2293.6	2083.5
45°	1980.0	1964.1	2066.0	2116.9	2194.9	2217.2	2247.4	2272.9	2382.7	2530.7	2292.0
47.5°	2043.7	2021.4	2137.6	2239.4	2334.9	2339.7	2422.5	2449.5	2580.1	2748.8	2498.9
50°	2132.8	2140.8	2190.1	2365.2	2462.3	2518.0	2575.3	2664.4	2809.3	2989.1	2648.5
52.5°	2225.1	2217.2	2299.9	2471.8	2624.6	2645.3	2774.2	2874.5	3032.1	3167.4	2715.3
55°	2338.1	2347.7	2379.5	2605.5	2799.7	2849.0	2993.9	3098.9	3270.8	3243.8	2737.6
57.5°	2451.1	2441.6	2513.2	2755.1	3019.4	3056.0	3248.6	3310.6	3426.8	3294.7	2681.9
60°	2562.6	2580.1	2610.3	2923.9	3259.7	3313.8	3466.6	3498.4	3523.9	3318.6	2639.0
62.5°	2689.9	2648.5	2742.4	3102.1	3476.2	3589.2	3710.1	3584.4	3562.1	3275.6	2540.3
65°	2753.5	2766.3	2888.8	3305.9	3764.2	3847.0	3862.9	3700.6	3586.0	3180.1	2448.0
67.5°	2852.2	2869.7	3025.7	3514.4	4060.3	4106.4	4049.1	3805.6	3565.3	3056.0	2115.3
70°	2865.0	2907.9	3208.8	3732.4	4246.5	4286.3	4241.7	3875.7	3398.2	2567.3	1566.2
72.5°	2798.1	2874.5	3253.3	3856.6	4402.5	4502.8	4252.9	3629.0	2739.2	1637.8	802.2
75°	2113.7	2177.4	2978.0	3671.9	4125.5	4149.4	3734.0	2769.5	1559.8	558.7	205.3
77.5°	1095.1	1204.9	1988.0	2806.1	3143.5	3118.0	2599.2	1631.4	536.4	146.4	82.8
80°	628.7	655.8	869.0	1575.7	1976.8	1879.7	1437.3	703.5	235.6	73.2	54.1
82.5°	310.4	348.6	467.9	705.1	988.4	813.3	539.6	421.8	132.1	39.8	47.7
85°	66.8	70.0	238.7	337.4	401.1	264.2	184.6	354.9	47.7	23.9	46.2
87.5°	47.7	46.2	66.8	151.2	111.4	68.4	109.8	186.2	11.1	11.1	9.5
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°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1227.2	1212.8	1196.9	1166.7	1158.7	1153.9	1126.9	1125.3	1120.5	1109.4	1104.6
5°	1193.7	1169.9	1139.6	1107.8	1082.3	1036.2	980.5	951.8	916.8	918.4	907.2
7.5°	1189.0	1144.4	1101.4	1034.6	953.4	867.4	781.5	725.8	686.0	662.1	666.9
10°	1166.7	1133.3	1063.2	939.1	808.6	678.0	568.2	485.5	437.7	401.1	412.2
12.5°	1176.2	1111.0	1012.3	846.8	660.5	499.8	362.9	283.3	248.3	235.6	238.7
15°	1169.9	1111.0	982.0	746.5	518.9	339.0	235.6	210.1	203.7	203.7	200.5
17.5°	1189.0	1123.7	931.1	647.8	372.4	226.0	202.1	197.4	192.6	192.6	192.6
20°	1216.0	1130.1	896.1	538.0	262.6	199.0	189.4	186.2	184.6	184.6	183.0
22.5°	1217.6	1123.7	830.8	417.0	202.1	187.8	179.9	178.3	178.3	175.1	175.1
25°	1227.2	1130.1	760.8	313.6	187.8	176.7	170.3	168.7	170.3	168.7	167.1
27.5°	1251.0	1141.2	690.8	229.2	176.7	167.1	162.3	160.8	160.8	160.8	157.6
30°	1281.3	1141.2	612.8	189.4	167.1	157.6	152.8	151.2	149.6	149.6	149.6
32.5°	1344.9	1177.8	517.3	168.7	154.4	146.4	141.7	141.7	140.1	140.1	138.5
35°	1424.5	1203.3	420.2	156.0	143.2	135.3	130.5	130.5	128.9	128.9	127.3
37.5°	1523.2	1267.0	321.5	146.4	132.1	124.1	119.4	119.4	119.4	117.8	117.8
40°	1663.3	1332.2	238.7	133.7	121.0	113.0	109.8	108.2	106.6	106.6	103.5
42.5°	1812.9	1432.5	178.3	124.1	111.4	105.0	100.3	95.5	95.5	90.7	90.7
45°	1975.2	1520.0	144.8	113.0	101.9	93.9	89.1	85.9	81.2	78.0	78.0
47.5°	2134.4	1574.1	127.3	100.3	92.3	85.9	81.2	74.8	68.4	66.8	65.3
50°	2263.3	1590.1	113.0	90.7	84.4	78.0	71.6	63.7	57.3	54.1	52.5
52.5°	2263.3	1502.5	101.9	81.2	76.4	70.0	62.1	52.5	44.6	41.4	39.8
55°	2263.3	1364.0	90.7	74.8	68.4	63.7	52.5	43.0	35.0	30.2	28.6
57.5°	2229.9	1196.9	81.2	66.8	60.5	54.1	44.6	33.4	25.5	20.7	20.7
60°	2137.6	1021.8	70.0	58.9	52.5	44.6	35.0	23.9	15.9	11.1	11.1
62.5°	2019.8	813.3	60.5	49.3	43.0	36.6	27.1	15.9	6.4	3.2	3.2
65°	1814.5	600.1	52.5	41.4	33.4	27.1	17.5	6.4	0.0	0.0	0.0
67.5°	1497.7	401.1	41.4	33.4	28.6	19.1	11.1	1.6	0.0	0.0	0.0
70°	1053.7	227.6	31.8	23.9	20.7	12.7	3.2	0.0	0.0	0.0	0.0
72.5°	432.9	100.3	22.3	17.5	14.3	6.4	0.0	0.0	0.0	0.0	0.0
75°	117.8	44.6	14.3	9.5	8.0	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	68.4	30.2	6.4	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	54.1	14.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.1	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	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)