

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: P677113

Luminaire Tested: **CCW-SA-2C-727-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677113
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-727-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

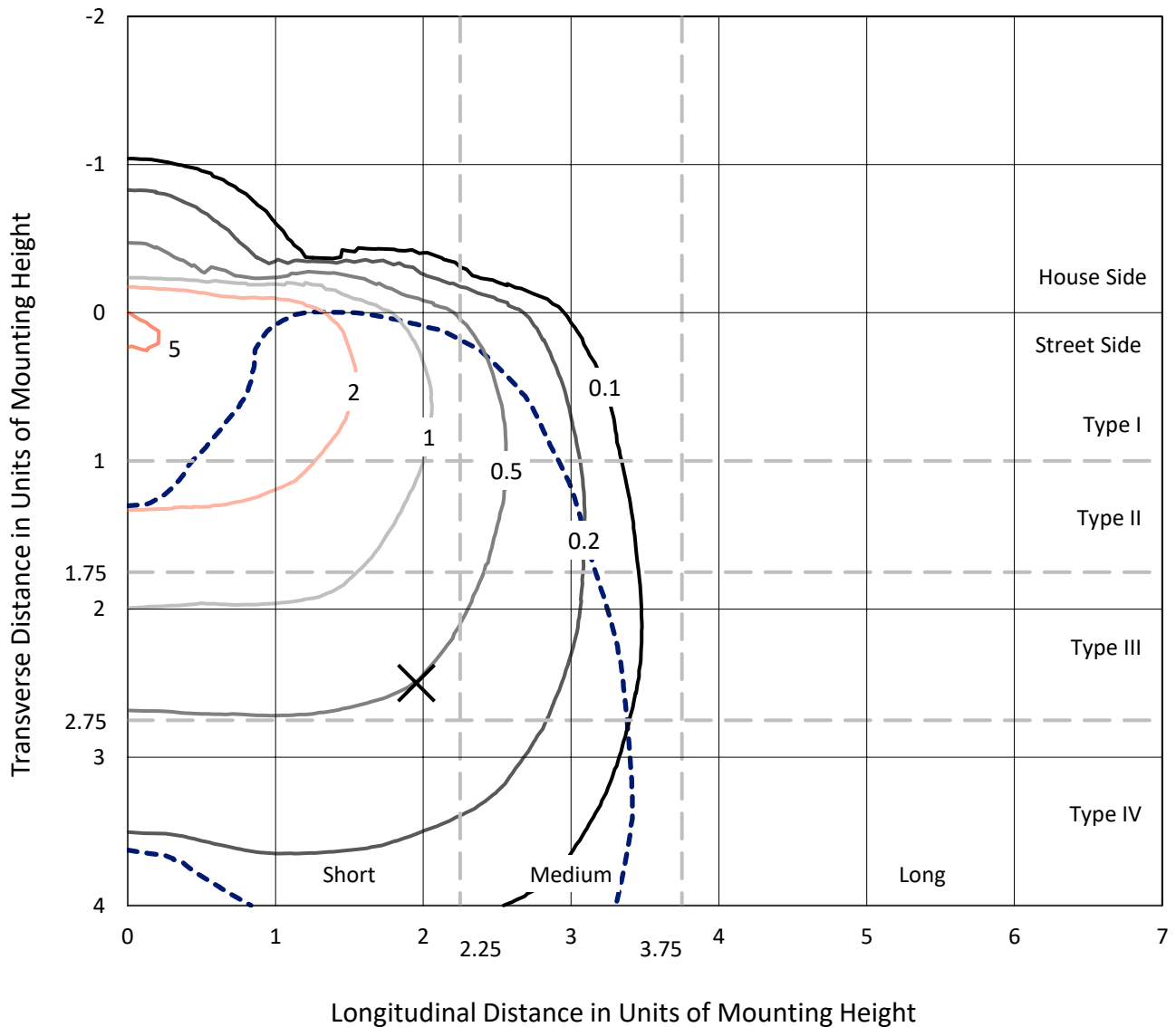
Lumens per Lamp: N/A
Luminaire Lumens: 6245.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
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

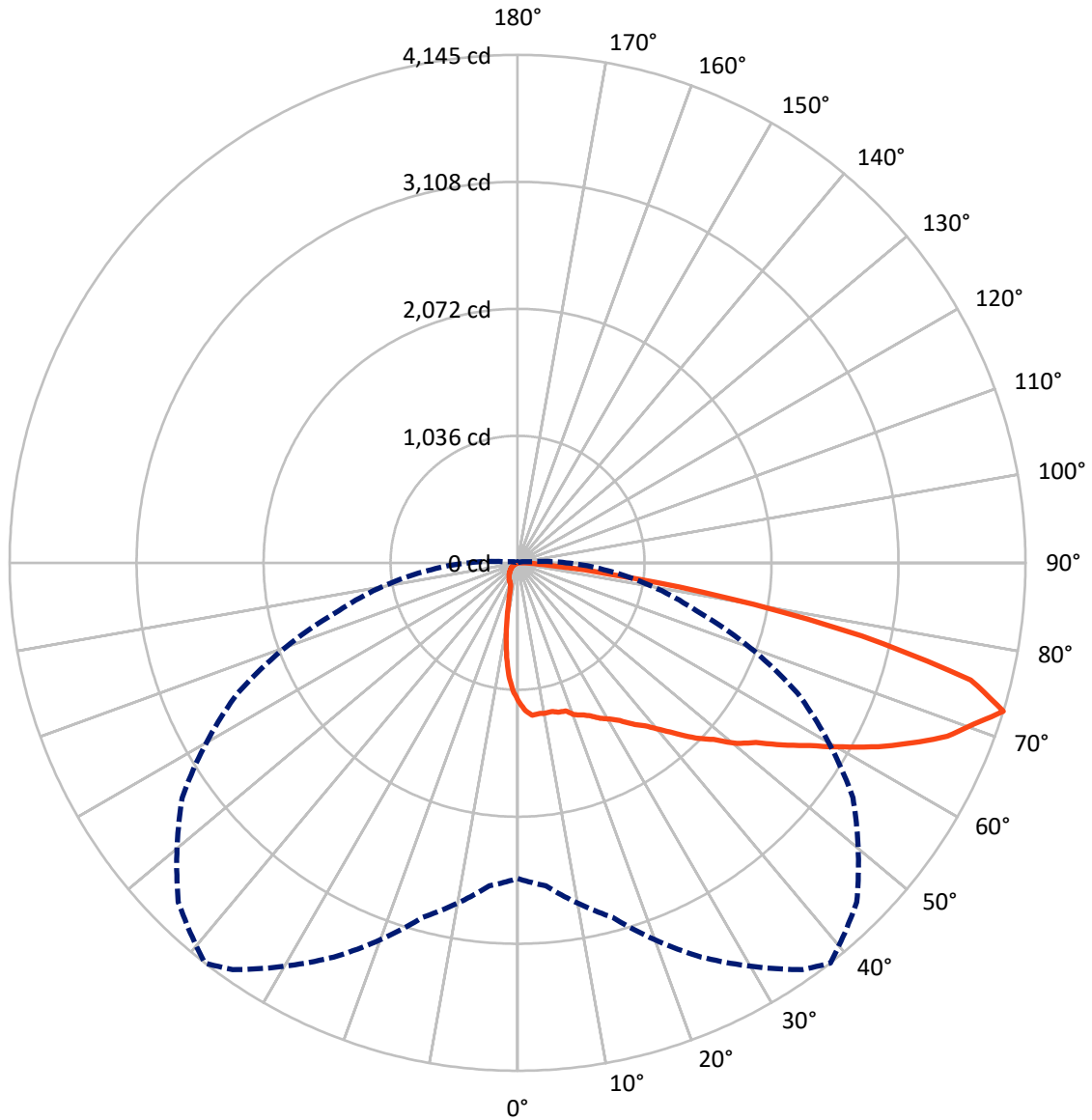
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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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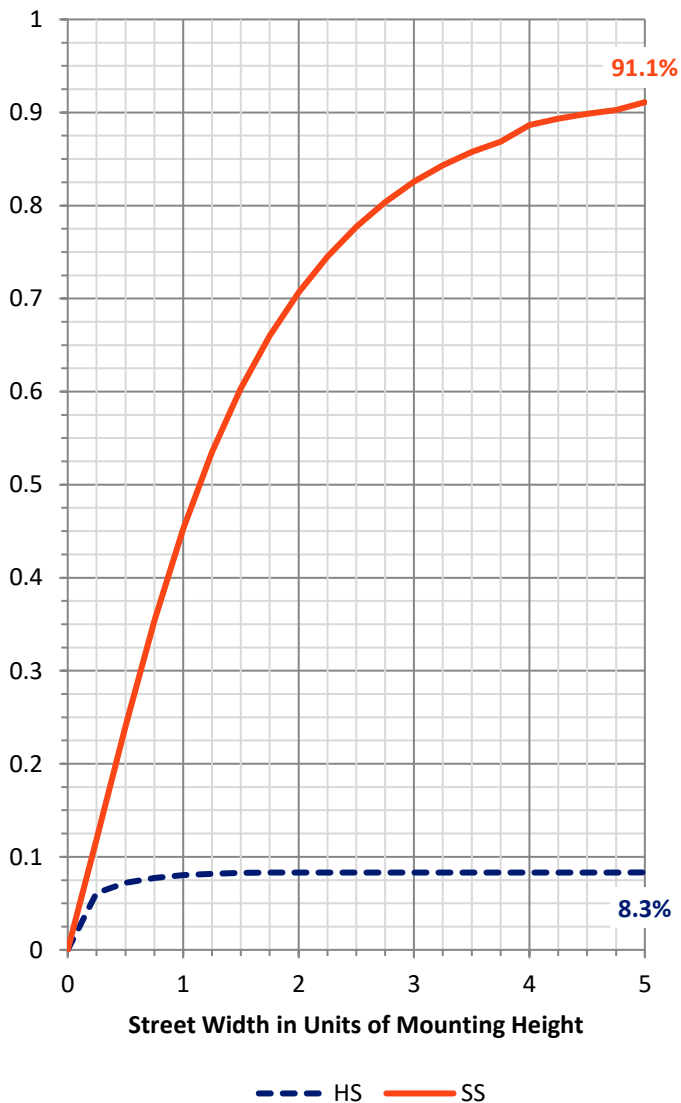
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.1	0.0	523.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5722.8	0.0	5722.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	6245.9	0.0	6245.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	1.6
10°-20°	242.1	3.9
20°-30°	388.1	6.2
30°-40°	585.9	9.4
40°-50°	891.7	14.3
50°-60°	1255.4	20.1
60°-70°	1533.4	24.6
70°-80°	1113.5	17.8
80°-90°	137.1	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°	6245.9	100.0
0°-180°	6245.9	100.0

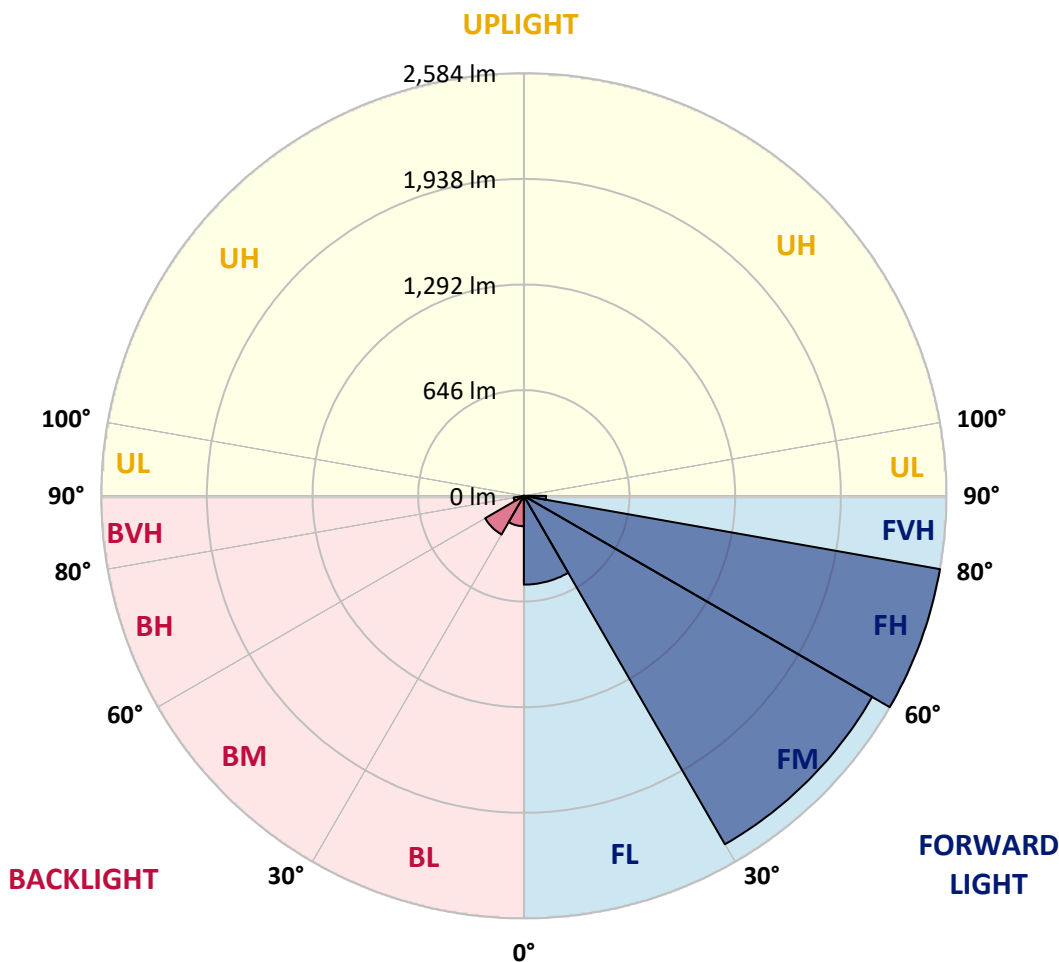


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.3	8.7			
FM (30°-60°)	2459.7	39.4			
FH (60°-80°)	2583.5	41.4			G2/5000
FVH (80°-90°)	136.4	2.2			G2/225
BL (0°-30°)	185.7	3.0	B1/500		
BM (30°-60°)	273.3	4.4	B1/1000		
BH (60°-80°)	63.4	1.0	B0/110		G0/110
BVH (80°-90°)	0.7	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°	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5
2.5°	1240.8	1240.8	1252.6	1240.8	1236.5	1208.6	1210.1	1195.4	1180.8	1160.3	1141.2
5°	1255.5	1265.8	1273.1	1262.8	1246.7	1249.6	1259.9	1232.1	1192.5	1167.6	1125.1
7.5°	1249.6	1271.6	1265.8	1259.9	1249.6	1242.3	1227.7	1215.9	1196.9	1173.5	1123.6
10°	1245.2	1252.6	1254.0	1249.6	1227.7	1248.2	1232.1	1213.0	1189.6	1161.7	1100.2
12.5°	1229.1	1229.1	1242.3	1232.1	1235.0	1245.2	1237.9	1233.5	1208.6	1185.2	1131.0
15°	1211.5	1217.4	1237.9	1254.0	1268.7	1264.3	1259.9	1246.7	1224.7	1198.4	1141.2
17.5°	1215.9	1218.9	1251.1	1280.4	1273.1	1270.1	1293.6	1265.8	1243.8	1214.5	1150.0
20°	1232.1	1240.8	1277.5	1315.6	1322.9	1322.9	1314.1	1298.0	1267.2	1227.7	1166.1
22.5°	1248.2	1251.1	1311.2	1359.5	1366.8	1347.8	1355.1	1308.2	1278.9	1257.0	1182.2
25°	1309.7	1303.8	1368.3	1406.4	1402.0	1383.0	1375.6	1334.6	1322.9	1283.3	1217.4
27.5°	1393.2	1368.3	1431.3	1454.7	1431.3	1437.2	1416.6	1372.7	1347.8	1324.4	1233.5
30°	1444.5	1459.1	1492.8	1516.3	1476.7	1478.2	1467.9	1419.6	1381.5	1387.3	1287.7
32.5°	1523.6	1533.8	1558.8	1569.0	1538.2	1535.3	1525.1	1487.0	1459.1	1453.3	1361.0
35°	1608.6	1627.6	1629.1	1632.0	1604.2	1615.9	1601.2	1547.0	1561.7	1571.9	1448.9
37.5°	1692.1	1674.5	1703.8	1717.0	1686.2	1686.2	1690.6	1654.0	1680.3	1711.1	1573.4
40°	1724.3	1731.6	1782.9	1772.6	1809.3	1787.3	1803.4	1794.6	1816.6	1886.9	1749.2
42.5°	1758.0	1766.8	1835.6	1854.7	1898.6	1906.0	1929.4	1930.9	1995.3	2111.1	1917.7
45°	1822.5	1807.8	1901.6	1948.4	2020.2	2040.7	2068.6	2092.0	2193.1	2329.3	2109.6
47.5°	1881.1	1860.5	1967.5	2061.2	2149.1	2153.5	2229.7	2254.6	2374.8	2530.0	2300.0
50°	1963.1	1970.4	2015.8	2177.0	2266.3	2317.6	2370.4	2452.4	2585.7	2751.3	2437.7
52.5°	2048.1	2040.7	2116.9	2275.1	2415.8	2434.8	2553.5	2645.8	2790.8	2915.3	2499.3
55°	2152.1	2160.9	2190.2	2398.2	2576.9	2622.3	2755.7	2852.3	3010.6	2985.7	2519.8
57.5°	2256.1	2247.3	2313.2	2535.9	2779.1	2812.8	2990.1	3047.2	3154.1	3032.5	2468.5
60°	2358.6	2374.8	2402.6	2691.2	3000.3	3050.1	3190.8	3220.1	3243.5	3054.5	2429.0
62.5°	2475.8	2437.7	2524.2	2855.3	3199.5	3303.6	3414.9	3299.2	3278.7	3015.0	2338.1
65°	2534.4	2546.2	2659.0	3042.8	3464.7	3540.9	3555.5	3406.1	3300.6	2927.1	2253.2
67.5°	2625.3	2641.4	2785.0	3234.7	3737.2	3779.7	3726.9	3502.8	3281.6	2812.8	1947.0
70°	2637.0	2676.5	2953.4	3435.4	3908.6	3945.2	3904.2	3567.3	3127.8	2363.0	1441.6
72.5°	2575.5	2645.8	2994.4	3549.7	4052.2	4144.5	3914.5	3340.2	2521.3	1507.5	738.4
75°	1945.5	2004.1	2741.0	3379.7	3797.3	3819.2	3436.9	2549.1	1435.7	514.2	189.0
77.5°	1007.9	1109.0	1829.8	2582.8	2893.4	2869.9	2392.3	1501.6	493.7	134.8	76.2
80°	578.7	603.6	799.9	1450.3	1819.5	1730.2	1322.9	647.5	216.8	67.4	49.8
82.5°	285.7	320.8	430.7	649.0	909.8	748.6	496.6	388.2	121.6	36.6	43.9
85°	61.5	64.5	219.7	310.6	369.2	243.2	169.9	326.7	43.9	22.0	42.5
87.5°	43.9	42.5	61.5	139.2	102.5	63.0	101.1	171.4	10.3	10.3	8.8
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°	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5
2.5°	1129.5	1116.3	1101.7	1073.8	1066.5	1062.1	1037.2	1035.7	1031.4	1021.1	1016.7
5°	1098.7	1076.8	1048.9	1019.6	996.2	953.7	902.4	876.1	843.8	845.3	835.0
7.5°	1094.3	1053.3	1013.8	952.2	877.5	798.4	719.3	668.0	631.4	609.4	613.8
10°	1073.8	1043.1	978.6	864.3	744.2	624.1	523.0	446.8	402.9	369.2	379.4
12.5°	1082.6	1022.6	931.7	779.4	608.0	460.0	334.0	260.8	228.5	216.8	219.7
15°	1076.8	1022.6	903.9	687.1	477.6	312.0	216.8	193.4	187.5	187.5	184.6
17.5°	1094.3	1034.3	857.0	596.3	342.8	208.0	186.1	181.7	177.3	177.3	177.3
20°	1119.3	1040.1	824.8	495.2	241.7	183.1	174.3	171.4	169.9	169.9	168.5
22.5°	1120.7	1034.3	764.7	383.8	186.1	172.9	165.5	164.1	164.1	161.1	161.1
25°	1129.5	1040.1	700.3	288.6	172.9	162.6	156.8	155.3	156.8	155.3	153.8
27.5°	1151.5	1050.4	635.8	211.0	162.6	153.8	149.4	148.0	148.0	148.0	145.0
30°	1179.3	1050.4	564.0	174.3	153.8	145.0	140.6	139.2	137.7	137.7	137.7
32.5°	1237.9	1084.1	476.1	155.3	142.1	134.8	130.4	130.4	128.9	128.9	127.5
35°	1311.2	1107.5	386.8	143.6	131.8	124.5	120.1	120.1	118.7	118.7	117.2
37.5°	1402.0	1166.1	295.9	134.8	121.6	114.3	109.9	109.9	109.9	108.4	108.4
40°	1530.9	1226.2	219.7	123.1	111.3	104.0	101.1	99.6	98.2	98.2	95.2
42.5°	1668.6	1318.5	164.1	114.3	102.5	96.7	92.3	87.9	87.9	83.5	83.5
45°	1818.1	1399.1	133.3	104.0	93.8	86.4	82.0	79.1	74.7	71.8	71.8
47.5°	1964.6	1448.9	117.2	92.3	85.0	79.1	74.7	68.9	63.0	61.5	60.1
50°	2083.2	1463.5	104.0	83.5	77.6	71.8	65.9	58.6	52.7	49.8	48.3
52.5°	2083.2	1383.0	93.8	74.7	70.3	64.5	57.1	48.3	41.0	38.1	36.6
55°	2083.2	1255.5	83.5	68.9	63.0	58.6	48.3	39.6	32.2	27.8	26.4
57.5°	2052.5	1101.7	74.7	61.5	55.7	49.8	41.0	30.8	23.4	19.0	19.0
60°	1967.5	940.5	64.5	54.2	48.3	41.0	32.2	22.0	14.6	10.3	10.3
62.5°	1859.1	748.6	55.7	45.4	39.6	33.7	24.9	14.6	5.9	2.9	2.9
65°	1670.1	552.3	48.3	38.1	30.8	24.9	16.1	5.9	0.0	0.0	0.0
67.5°	1378.6	369.2	38.1	30.8	26.4	17.6	10.3	1.5	0.0	0.0	0.0
70°	969.8	209.5	29.3	22.0	19.0	11.7	2.9	0.0	0.0	0.0	0.0
72.5°	398.5	92.3	20.5	16.1	13.2	5.9	0.0	0.0	0.0	0.0	0.0
75°	108.4	41.0	13.2	8.8	7.3	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	63.0	27.8	5.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	49.8	13.2	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.8	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	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)