

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: P472212

Luminaire Tested: **CCW-VA-6-860-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472212
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-6-860-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 5700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9793.9 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

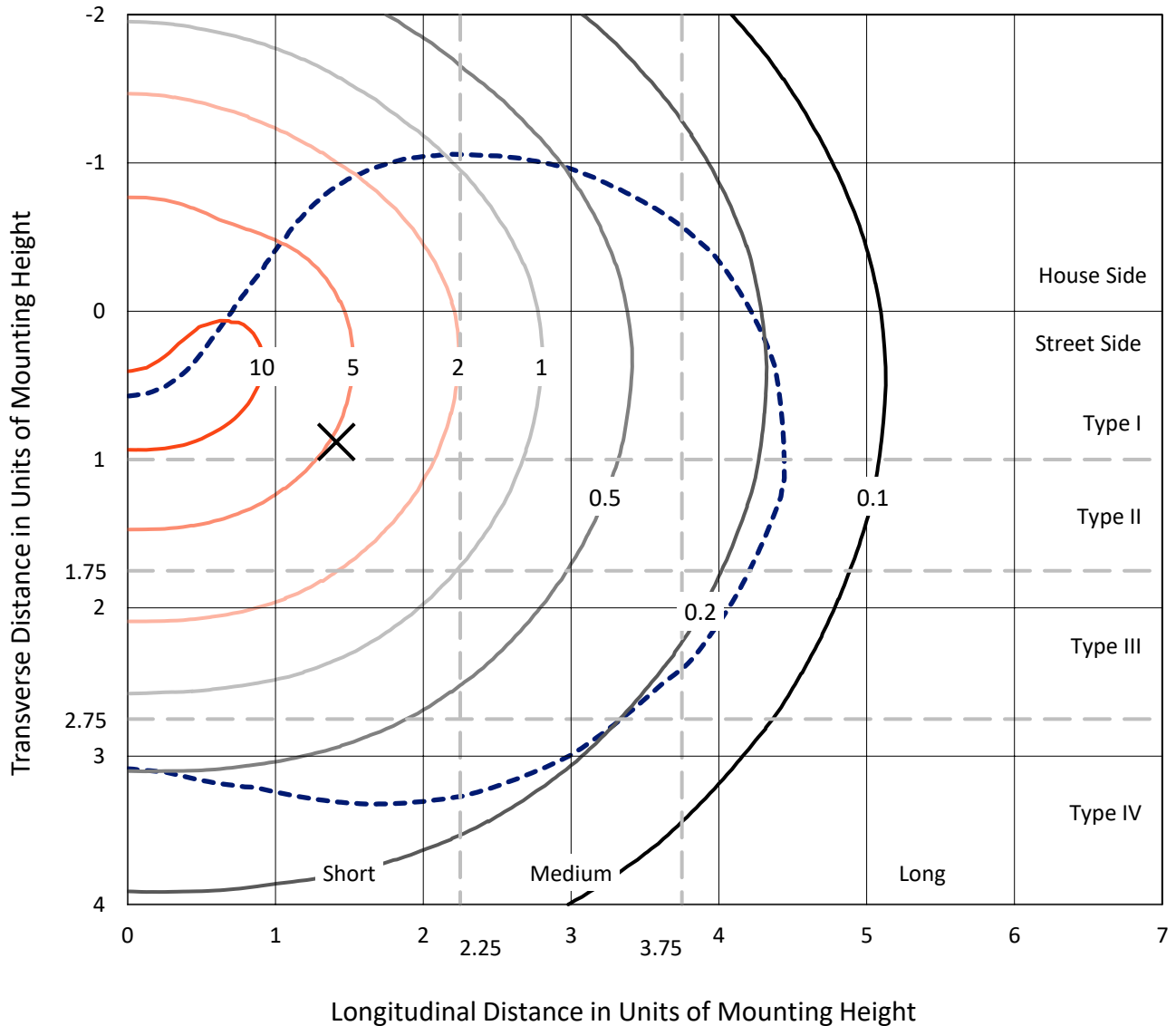
Input Watts (W): 101.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

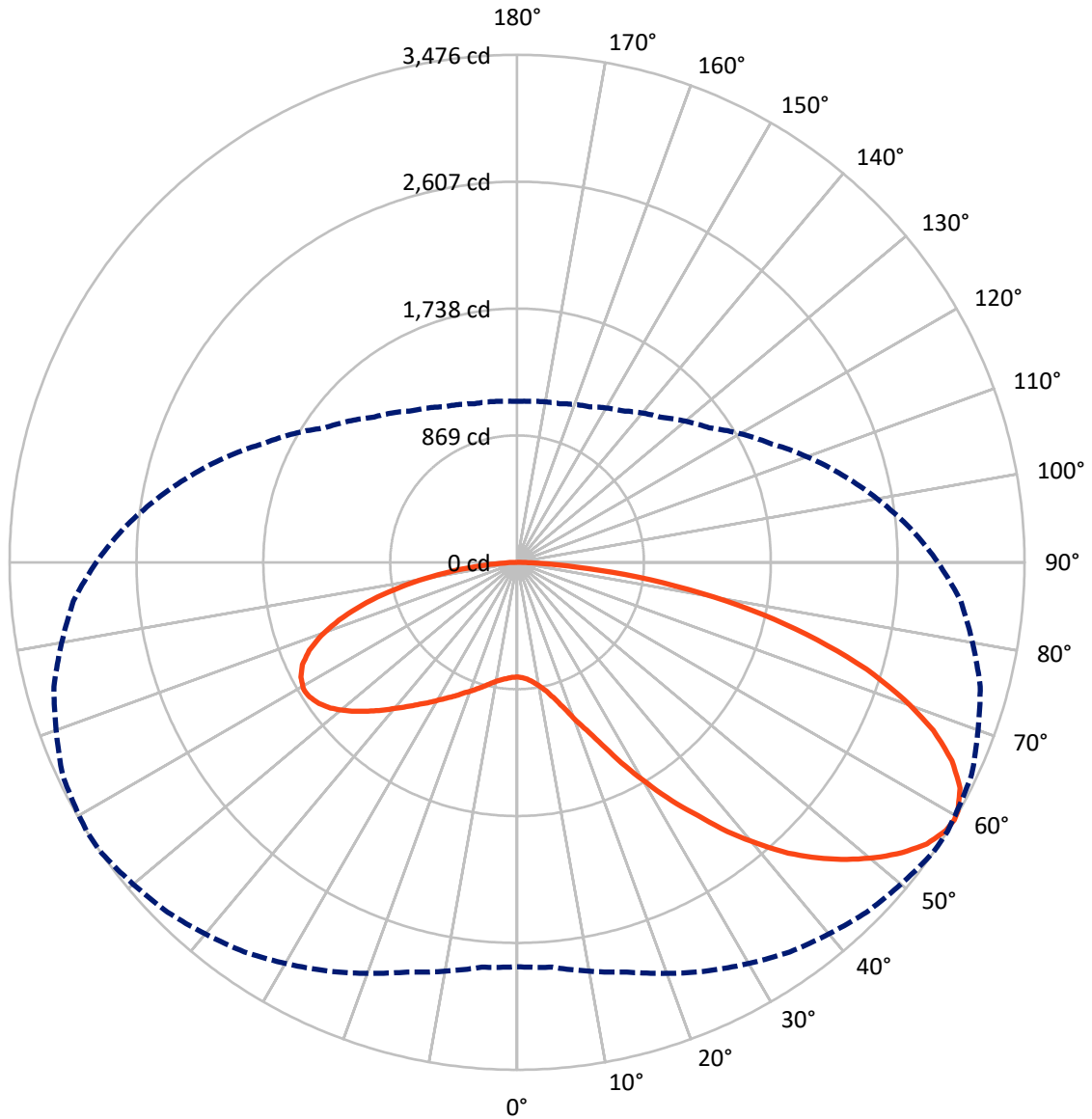
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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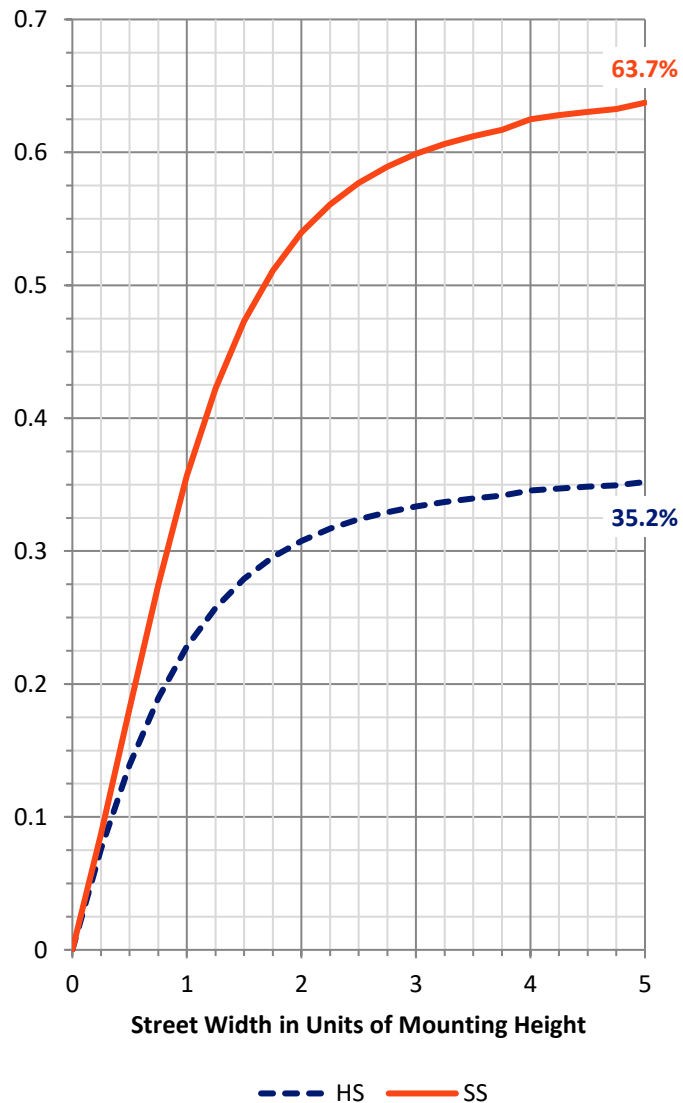
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3492.9	0.0	3492.9
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	6301.0	0.0	6301.0
	% Fixture	64.3	0.0	64.3
Total	Lumens	9793.9	0.0	9793.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	0.8
10°-20°	265.7	2.7
20°-30°	560.7	5.7
30°-40°	1031.9	10.5
40°-50°	1608.5	16.4
50°-60°	2113.5	21.6
60°-70°	2214.7	22.6
70°-80°	1535.5	15.7
80°-90°	385.6	3.9
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°	9793.9	100.0
0°-180°	9793.9	100.0

Coefficient of Utilization



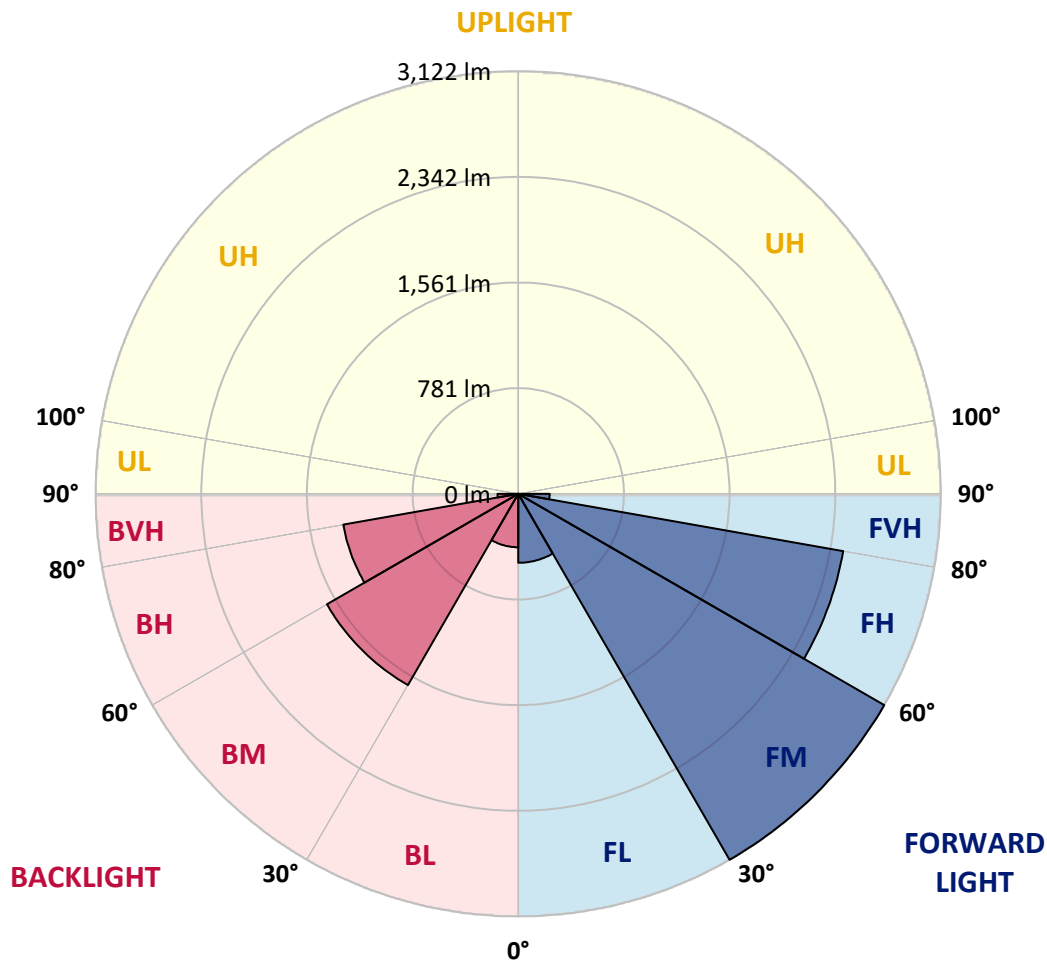
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.5	5.2			
FM (30°-60°)	3122.1	31.9			
FH (60°-80°)	2437.7	24.9			G2/5000
FVH (80°-90°)	231.7	2.4			G3/500
BL (0°-30°)	394.8	4.0	B1/500		
BM (30°-60°)	1631.8	16.7	B2/2500		
BH (60°-80°)	1312.4	13.4	B3/2500		G3/2500
BVH (80°-90°)	153.9	1.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1
2.5°	796.2	796.2	796.2	794.0	794.0	794.0	791.8	791.8	791.8	789.5	787.3
5°	813.8	813.8	811.6	813.8	811.6	809.4	807.2	807.2	807.2	805.0	802.8
7.5°	838.1	840.3	838.1	840.3	838.1	835.9	831.4	831.4	829.2	824.8	820.4
10°	875.6	875.6	875.6	873.4	871.1	868.9	866.7	864.5	862.3	855.7	849.1
12.5°	921.9	921.9	921.9	917.5	917.5	913.0	910.8	908.6	904.2	895.4	886.6
15°	979.2	977.0	983.6	983.6	981.4	981.4	974.8	970.4	966.0	952.7	932.9
17.5°	1056.4	1054.2	1060.8	1065.2	1065.2	1067.4	1056.4	1052.0	1036.6	1018.9	992.4
20°	1160.1	1155.6	1162.3	1166.7	1162.3	1166.7	1155.6	1157.9	1135.8	1104.9	1063.0
22.5°	1272.5	1272.5	1279.2	1279.2	1281.4	1285.8	1272.5	1265.9	1248.3	1204.2	1151.2
25°	1411.5	1422.5	1422.5	1422.5	1431.3	1433.5	1420.3	1409.3	1385.0	1325.5	1252.7
27.5°	1581.3	1579.1	1576.9	1590.1	1590.1	1594.5	1585.7	1581.3	1552.6	1479.8	1369.6
30°	1762.1	1748.9	1757.7	1762.1	1771.0	1777.6	1768.8	1755.5	1720.2	1640.8	1504.1
32.5°	1927.5	1936.4	1949.6	1954.0	1967.2	1969.5	1947.4	1947.4	1912.1	1810.7	1669.5
35°	2115.0	2115.0	2150.3	2165.7	2165.7	2179.0	2145.9	2128.2	2104.0	1998.1	1819.5
37.5°	2278.2	2282.6	2311.3	2346.6	2351.0	2370.8	2346.6	2340.0	2295.9	2187.8	1989.3
40°	2430.4	2434.8	2470.1	2512.0	2536.2	2567.1	2542.9	2531.8	2485.5	2362.0	2159.1
42.5°	2549.5	2558.3	2602.4	2664.2	2703.9	2741.4	2730.3	2723.7	2659.8	2529.6	2315.7
45°	2639.9	2655.3	2717.1	2789.9	2845.0	2900.1	2902.3	2889.1	2829.6	2684.0	2467.9
47.5°	2712.7	2730.3	2798.7	2891.3	2975.1	3043.5	3056.7	3041.3	2986.2	2834.0	2604.6
50°	2772.2	2781.1	2858.2	2977.3	3081.0	3167.0	3193.5	3180.2	3131.7	2959.7	2723.7
52.5°	2803.1	2816.3	2904.6	3041.3	3167.0	3270.7	3310.4	3303.7	3246.4	3074.4	2829.6
55°	2818.5	2831.8	2935.4	3092.0	3233.2	3354.5	3403.0	3405.2	3350.1	3178.0	2928.8
57.5°	2800.9	2818.5	2931.0	3105.2	3261.8	3392.0	3466.9	3464.7	3420.6	3257.4	3012.6
59°	2770.0	2783.3	2904.6	3087.6	3257.4	3387.5	3473.6	3475.8	3436.1	3283.9	3050.1
60°	2734.7	2750.2	2873.7	3065.6	3239.8	3372.1	3462.5	3466.9	3433.9	3290.5	3065.6
62.5°	2613.4	2633.3	2770.0	2975.1	3164.8	3290.5	3398.6	3405.2	3387.5	3272.9	3076.6
65°	2443.6	2461.3	2609.0	2827.4	3025.9	3156.0	3257.4	3272.9	3270.7	3193.5	3032.5
67.5°	2236.3	2238.5	2377.5	2615.6	2823.0	2950.9	3047.9	3074.4	3094.2	3043.5	2902.3
70°	1987.1	1984.9	2119.4	2355.4	2562.7	2697.2	2794.3	2811.9	2862.7	2823.0	2708.3
72.5°	1678.3	1704.8	1830.5	2029.0	2234.1	2384.1	2470.1	2503.2	2531.8	2540.7	2445.8
75°	1387.2	1415.9	1515.1	1700.4	1876.8	2015.8	2108.4	2123.8	2176.8	2190.0	2101.8
77.5°	1109.3	1111.5	1184.3	1332.1	1493.1	1607.8	1682.7	1722.4	1751.1	1777.6	1685.0
80°	778.5	789.5	840.3	946.1	1071.8	1193.1	1254.9	1281.4	1301.2	1318.8	1288.0
82.5°	487.4	491.8	524.9	588.9	674.9	743.2	807.2	829.2	833.7	873.4	868.9
85°	231.6	233.8	255.8	286.7	324.2	379.3	403.6	403.6	434.5	463.1	463.1
87.5°	30.9	30.9	37.5	41.9	52.9	68.4	94.8	97.0	114.7	127.9	138.9
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°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1
2.5°	787.3	787.3	787.3	787.3	787.3	785.1	787.3	787.3	787.3	787.3	787.3
5°	802.8	800.6	798.4	796.2	796.2	794.0	794.0	794.0	794.0	794.0	794.0
7.5°	818.2	816.0	813.8	809.4	807.2	805.0	805.0	802.8	802.8	802.8	802.8
10°	844.7	842.5	833.7	827.0	822.6	820.4	818.2	816.0	813.8	813.8	813.8
12.5°	880.0	875.6	860.1	851.3	844.7	840.3	835.9	833.7	831.4	829.2	829.2
15°	924.1	913.0	893.2	880.0	871.1	864.5	857.9	853.5	851.3	849.1	849.1
17.5°	977.0	963.8	937.3	913.0	897.6	886.6	877.8	871.1	868.9	868.9	868.9
20°	1043.2	1021.1	983.6	950.5	926.3	910.8	897.6	891.0	888.8	886.6	884.4
22.5°	1120.4	1091.7	1036.6	985.8	955.0	932.9	917.5	908.6	902.0	899.8	899.8
25°	1208.6	1166.7	1093.9	1032.1	990.2	959.4	939.5	928.5	917.5	913.0	913.0
27.5°	1314.4	1259.3	1162.3	1080.7	1023.3	985.8	963.8	948.3	937.3	928.5	924.1
30°	1429.1	1367.4	1237.2	1133.6	1060.8	1018.9	992.4	974.8	959.4	943.9	941.7
32.5°	1574.7	1486.5	1327.7	1193.1	1104.9	1052.0	1021.1	999.1	979.2	963.8	959.4
35°	1722.4	1616.6	1422.5	1254.9	1146.8	1082.9	1045.4	1021.1	1001.3	983.6	981.4
37.5°	1874.6	1762.1	1526.2	1327.7	1195.3	1118.2	1071.8	1045.4	1021.1	1003.5	1001.3
40°	2033.4	1901.1	1632.0	1402.7	1246.1	1153.4	1100.5	1067.4	1041.0	1025.5	1023.3
42.5°	2183.4	2040.0	1746.7	1490.9	1305.6	1190.9	1129.2	1093.9	1060.8	1045.4	1043.2
45°	2326.7	2172.4	1861.4	1572.5	1365.2	1230.6	1157.9	1115.9	1080.7	1065.2	1063.0
47.5°	2456.9	2302.5	1967.2	1660.7	1426.9	1274.7	1188.7	1138.0	1098.3	1082.9	1082.9
50°	2573.7	2412.7	2070.9	1742.3	1484.3	1318.8	1215.2	1157.9	1118.2	1102.7	1100.5
52.5°	2684.0	2509.8	2161.3	1812.9	1539.4	1358.5	1241.7	1173.3	1131.4	1113.7	1111.5
55°	2772.2	2598.0	2236.3	1870.2	1576.9	1385.0	1259.3	1182.1	1135.8	1120.4	1118.2
57.5°	2849.4	2670.8	2289.2	1909.9	1601.1	1400.4	1268.1	1182.1	1133.6	1115.9	1113.7
59°	2882.5	2701.7	2306.9	1920.9	1605.6	1402.7	1265.9	1175.5	1124.8	1107.1	1102.7
60°	2900.1	2714.9	2313.5	1923.1	1603.3	1398.2	1263.7	1168.9	1115.9	1096.1	1096.1
62.5°	2917.8	2725.9	2304.7	1905.5	1579.1	1374.0	1241.7	1142.4	1082.9	1060.8	1060.8
65°	2880.3	2686.2	2254.0	1857.0	1530.6	1332.1	1199.8	1098.3	1032.1	1010.1	1010.1
67.5°	2770.0	2589.2	2161.3	1766.6	1451.2	1259.3	1131.4	1027.7	966.0	941.7	935.1
70°	2582.6	2430.4	2015.8	1636.4	1343.1	1166.7	1045.4	946.1	882.2	857.9	849.1
72.5°	2331.1	2181.2	1821.7	1477.6	1199.8	1045.4	939.5	844.7	774.1	749.8	752.1
75°	1984.9	1879.0	1570.3	1276.9	1034.3	891.0	802.8	723.4	663.8	644.0	646.2
77.5°	1610.0	1521.7	1272.5	1041.0	844.7	734.4	659.4	595.5	555.8	544.7	538.1
80°	1232.8	1146.8	955.0	776.3	641.8	564.6	513.9	469.8	438.9	423.4	427.9
82.5°	827.0	774.1	633.0	513.9	436.7	381.5	363.9	335.2	324.2	315.4	322.0
85°	445.5	399.2	330.8	275.7	240.4	225.0	229.4	227.2	218.3	216.1	222.7
87.5°	145.6	125.7	97.0	81.6	83.8	75.0	75.0	70.6	64.0	61.8	66.2
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)