

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: P472188

Luminaire Tested: **CCW-VA-6-830-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472188
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-6-830-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9181.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

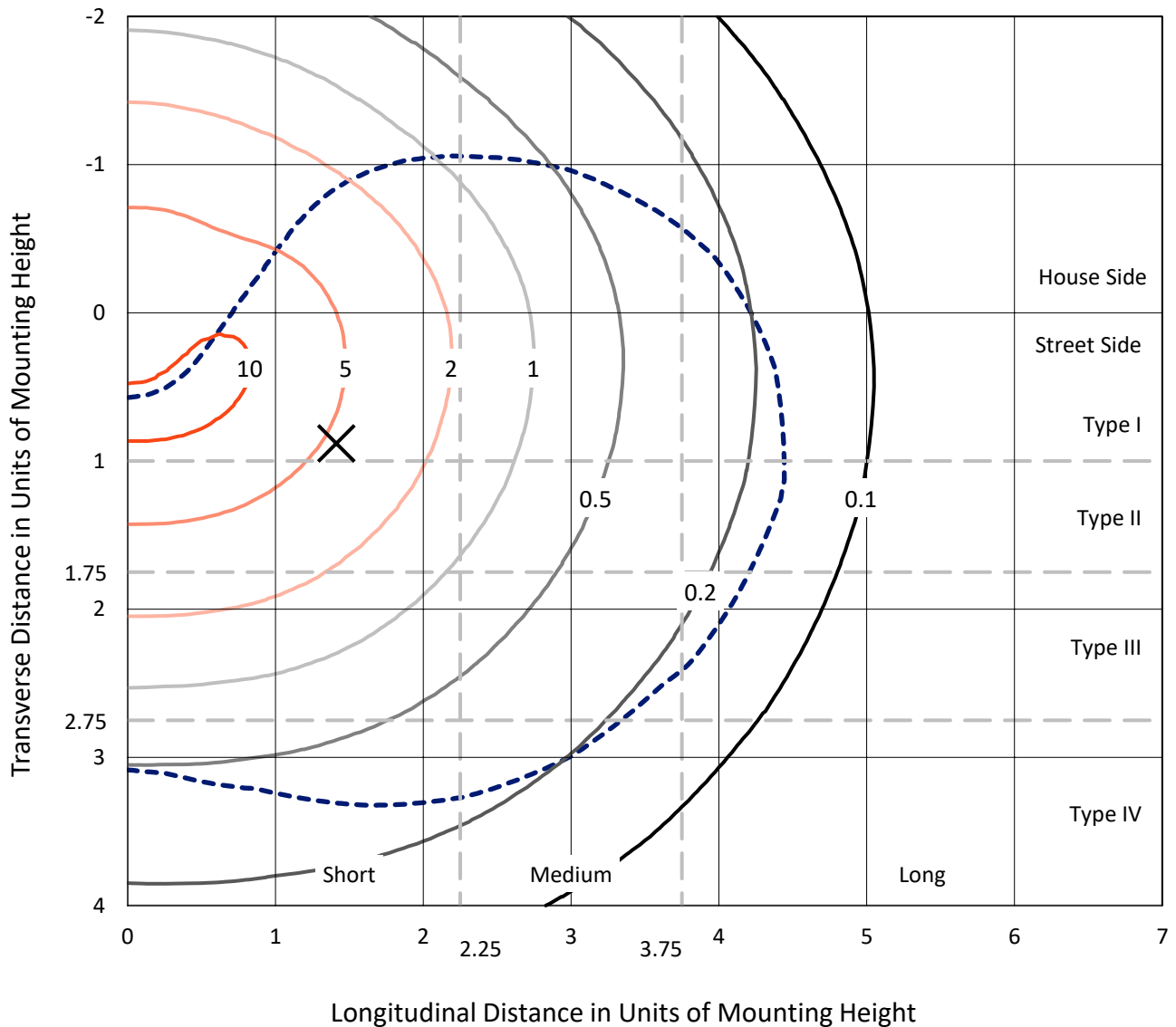
Input Watts (W): 101.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472188
 CATALOG NUMBER: CCW-VA-6-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

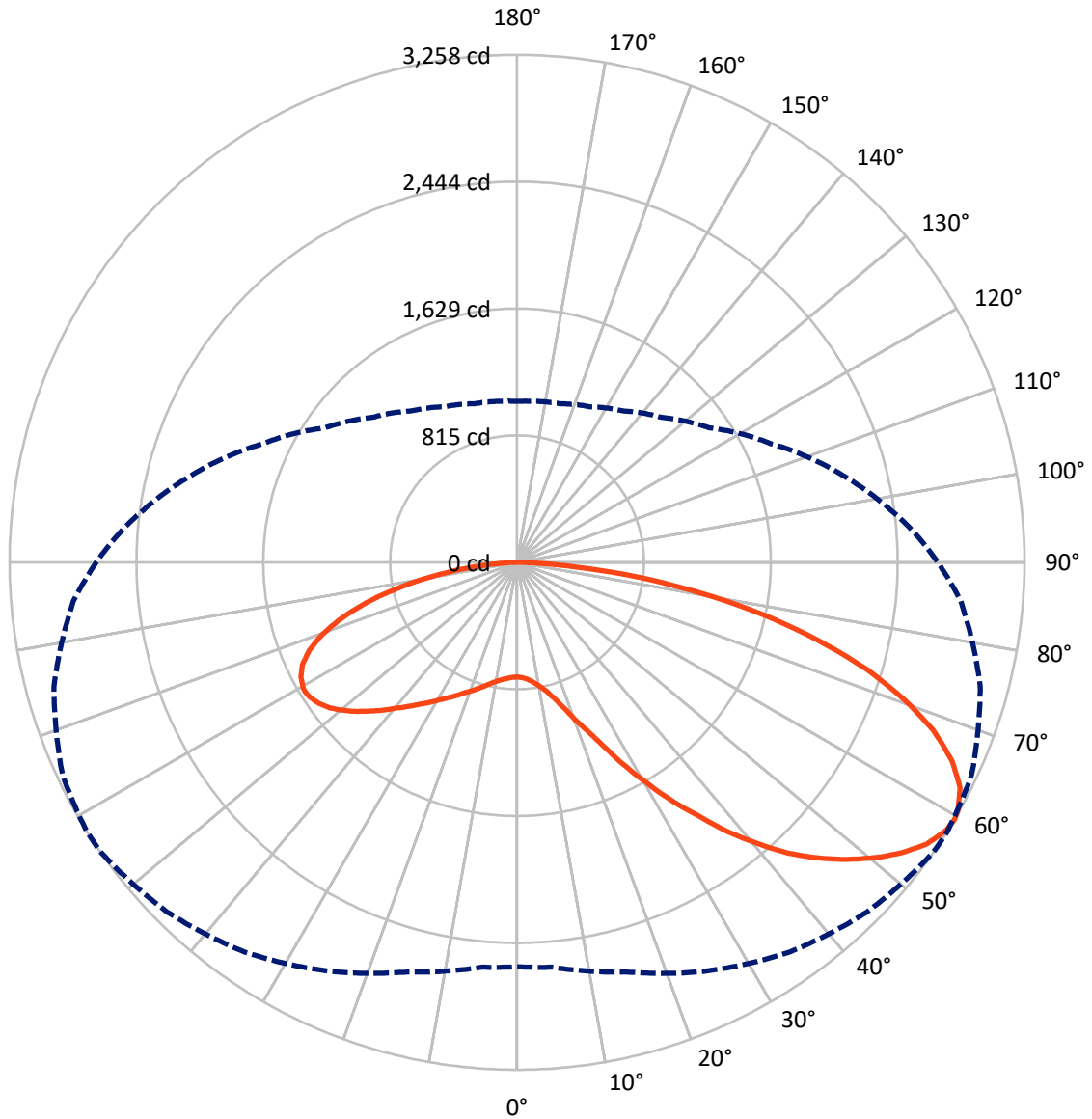
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P472188
CATALOG NUMBER: CCW-VA-6-830-U-T4W

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: CCW-VA-6-830-U-T4W

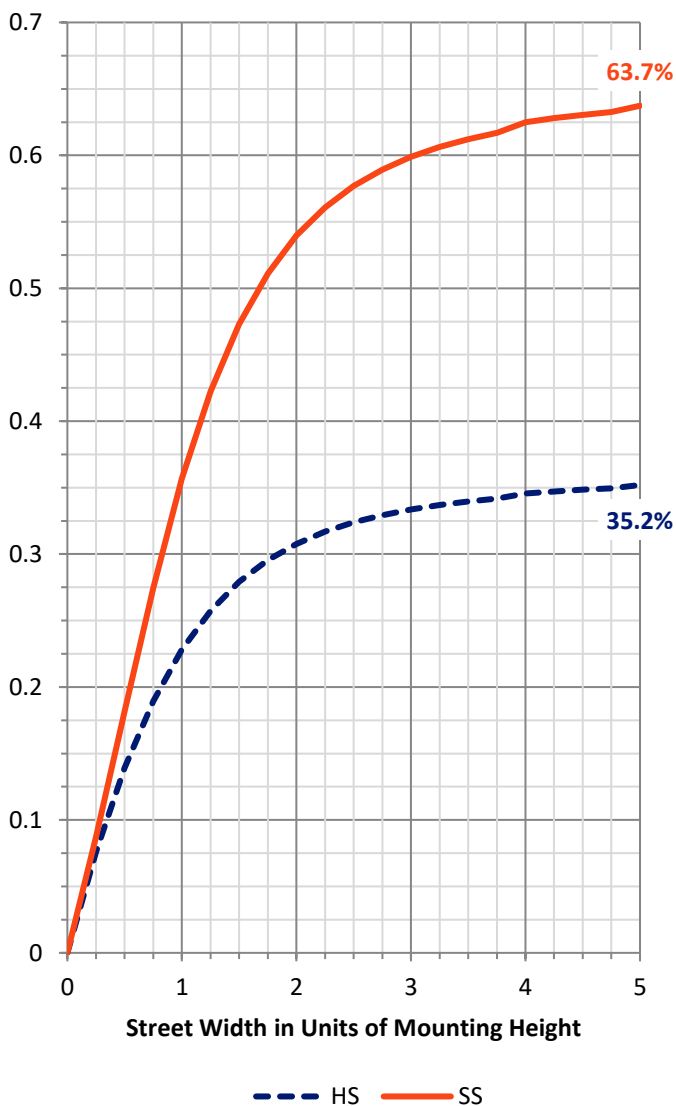
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3274.5	0.0	3274.5
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	5907.0	0.0	5907.0
	% Fixture	64.3	0.0	64.3
Total	Lumens	9181.4	0.0	9181.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	0.8
10°-20°	249.1	2.7
20°-30°	525.6	5.7
30°-40°	967.4	10.5
40°-50°	1507.9	16.4
50°-60°	1981.4	21.6
60°-70°	2076.1	22.6
70°-80°	1439.5	15.7
80°-90°	361.5	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°	9181.4	100.0
0°-180°	9181.4	100.0

Coefficient of Utilization



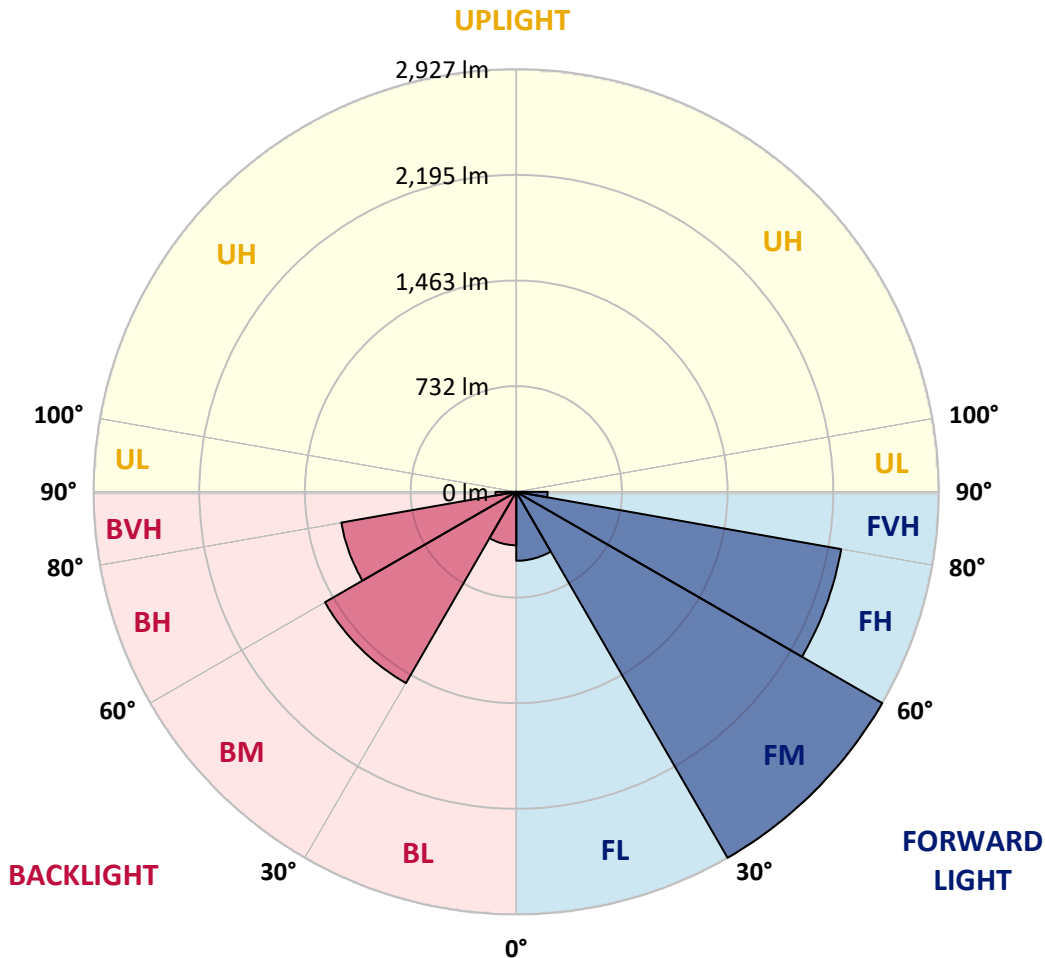
REPORT NUMBER: P472188
 CATALOG NUMBER: CCW-VA-6-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.6	5.2			
FM (30°-60°)	2926.9	31.9			
FH (60°-80°)	2285.3	24.9			G2/5000
FVH (80°-90°)	217.2	2.4			G2/225
BL (0°-30°)	370.1	4.0	B1/500		
BM (30°-60°)	1529.8	16.7	B2/2500		
BH (60°-80°)	1230.3	13.4	B3/2500		G3/2500
BVH (80°-90°)	144.3	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





REPORT NUMBER: P472188

CATALOG NUMBER: CCW-VA-6-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
2.5°	746.4	746.4	746.4	744.3	744.3	744.3	742.2	742.2	742.2	740.2	738.1
5°	762.9	762.9	760.8	762.9	760.8	758.8	756.7	756.7	756.7	754.6	752.6
7.5°	785.7	787.7	785.7	787.7	785.7	783.6	779.5	779.5	777.4	773.2	769.1
10°	820.8	820.8	820.8	818.7	816.7	814.6	812.5	810.5	808.4	802.2	796.0
12.5°	864.2	864.2	864.2	860.1	860.1	855.9	853.9	851.8	847.7	839.4	831.1
15°	918.0	915.9	922.1	922.1	920.0	920.0	913.8	909.7	905.6	893.2	874.6
17.5°	990.3	988.3	994.5	998.6	998.6	1000.7	990.3	986.2	971.7	955.2	930.4
20°	1087.5	1083.4	1089.6	1093.7	1089.6	1093.7	1083.4	1085.4	1064.8	1035.8	996.5
22.5°	1193.0	1193.0	1199.2	1199.2	1201.2	1205.4	1193.0	1186.7	1170.2	1128.9	1079.2
25°	1323.2	1333.5	1333.5	1333.5	1341.8	1343.9	1331.5	1321.1	1298.4	1242.6	1174.3
27.5°	1482.4	1480.3	1478.3	1490.7	1490.7	1494.8	1486.5	1482.4	1455.5	1387.3	1283.9
30°	1651.9	1639.5	1647.8	1651.9	1660.2	1666.4	1658.1	1645.7	1612.7	1538.2	1410.0
32.5°	1807.0	1815.3	1827.7	1831.8	1844.2	1846.3	1825.6	1825.6	1792.5	1697.4	1565.1
35°	1982.7	1982.7	2015.8	2030.3	2030.3	2042.7	2011.7	1995.1	1972.4	1873.2	1705.7
37.5°	2135.7	2139.9	2166.7	2199.8	2204.0	2222.6	2199.8	2193.6	2152.3	2051.0	1864.9
40°	2278.4	2282.5	2315.6	2354.9	2377.6	2406.6	2383.8	2373.5	2330.1	2214.3	2024.1
42.5°	2390.0	2398.3	2439.7	2497.5	2534.8	2569.9	2559.6	2553.4	2493.4	2371.4	2170.9
45°	2474.8	2489.3	2547.2	2615.4	2667.1	2718.8	2720.8	2708.4	2652.6	2516.2	2313.5
47.5°	2543.0	2559.6	2623.7	2710.5	2789.1	2853.2	2865.6	2851.1	2799.4	2656.7	2441.7
50°	2598.9	2607.1	2679.5	2791.1	2888.3	2968.9	2993.8	2981.3	2935.9	2774.6	2553.4
52.5°	2627.8	2640.2	2722.9	2851.1	2968.9	3066.1	3103.3	3097.1	3043.4	2882.1	2652.6
55°	2642.3	2654.7	2751.9	2898.6	3031.0	3144.7	3190.2	3192.2	3140.5	2979.3	2745.6
57.5°	2625.7	2642.3	2747.7	2911.1	3057.8	3179.8	3250.1	3248.1	3206.7	3053.7	2824.2
59°	2596.8	2609.2	2722.9	2894.5	3053.7	3175.7	3256.3	3258.4	3221.2	3078.5	2859.4
60°	2563.7	2578.2	2694.0	2873.8	3037.2	3161.2	3246.0	3250.1	3219.1	3084.7	2873.8
62.5°	2450.0	2468.6	2596.8	2789.1	2966.9	3084.7	3186.0	3192.2	3175.7	3068.2	2884.2
65°	2290.8	2307.3	2445.9	2650.5	2836.6	2958.6	3053.7	3068.2	3066.1	2993.8	2842.8
67.5°	2096.5	2098.5	2228.8	2452.1	2646.4	2766.3	2857.3	2882.1	2900.7	2853.2	2720.8
70°	1862.8	1860.8	1986.9	2208.1	2402.4	2528.6	2619.5	2636.1	2683.6	2646.4	2538.9
72.5°	1573.4	1598.2	1716.0	1902.1	2094.4	2235.0	2315.6	2346.6	2373.5	2381.8	2292.9
75°	1300.5	1327.3	1420.4	1594.0	1759.4	1889.7	1976.5	1991.0	2040.6	2053.0	1970.3
77.5°	1040.0	1042.0	1110.3	1248.8	1399.7	1507.2	1577.5	1614.7	1641.6	1666.4	1579.6
80°	729.8	740.2	787.7	887.0	1004.8	1118.5	1176.4	1201.2	1219.8	1236.4	1207.4
82.5°	456.9	461.1	492.1	552.0	632.7	696.8	756.7	777.4	781.5	818.7	814.6
85°	217.1	219.2	239.8	268.8	303.9	355.6	378.4	378.4	407.3	434.2	434.2
87.5°	28.9	28.9	35.1	39.3	49.6	64.1	88.9	91.0	107.5	119.9	130.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P472188

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
2.5°	738.1	738.1	738.1	738.1	738.1	736.0	738.1	738.1	738.1	738.1	738.1
5°	752.6	750.5	748.4	746.4	746.4	744.3	744.3	744.3	744.3	744.3	744.3
7.5°	767.0	765.0	762.9	758.8	756.7	754.6	754.6	752.6	752.6	752.6	752.6
10°	791.9	789.8	781.5	775.3	771.2	769.1	767.0	765.0	762.9	762.9	762.9
12.5°	824.9	820.8	806.3	798.1	791.9	787.7	783.6	781.5	779.5	777.4	777.4
15°	866.3	855.9	837.3	824.9	816.7	810.5	804.3	800.1	798.1	796.0	796.0
17.5°	915.9	903.5	878.7	855.9	841.5	831.1	822.9	816.7	814.6	814.6	814.6
20°	977.9	957.3	922.1	891.1	868.4	853.9	841.5	835.3	833.2	831.1	829.1
22.5°	1050.3	1023.4	971.7	924.2	895.2	874.6	860.1	851.8	845.6	843.5	843.5
25°	1133.0	1093.7	1025.5	967.6	928.3	899.4	880.8	870.4	860.1	855.9	855.9
27.5°	1232.2	1180.5	1089.6	1013.1	959.3	924.2	903.5	889.0	878.7	870.4	866.3
30°	1339.7	1281.9	1159.9	1062.7	994.5	955.2	930.4	913.8	899.4	884.9	882.8
32.5°	1476.2	1393.5	1244.6	1118.5	1035.8	986.2	957.3	936.6	918.0	903.5	899.4
35°	1614.7	1515.5	1333.5	1176.4	1075.1	1015.1	980.0	957.3	938.6	922.1	920.0
37.5°	1757.4	1651.9	1430.7	1244.6	1120.6	1048.2	1004.8	980.0	957.3	940.7	938.6
40°	1906.2	1782.2	1530.0	1314.9	1168.1	1081.3	1031.7	1000.7	975.9	961.4	959.3
42.5°	2046.8	1912.4	1637.5	1397.6	1224.0	1116.5	1058.6	1025.5	994.5	980.0	977.9
45°	2181.2	2036.5	1745.0	1474.1	1279.8	1153.7	1085.4	1046.2	1013.1	998.6	996.5
47.5°	2303.2	2158.5	1844.2	1556.8	1337.7	1195.0	1114.4	1066.8	1029.6	1015.1	1015.1
50°	2412.8	2261.9	1941.4	1633.3	1391.4	1236.4	1139.2	1085.4	1048.2	1033.8	1031.7
52.5°	2516.2	2352.8	2026.2	1699.5	1443.1	1273.6	1164.0	1099.9	1060.6	1044.1	1042.0
55°	2598.9	2435.5	2096.5	1753.2	1478.3	1298.4	1180.5	1108.2	1064.8	1050.3	1048.2
57.5°	2671.2	2503.8	2146.1	1790.5	1501.0	1312.9	1188.8	1108.2	1062.7	1046.2	1044.1
59°	2702.2	2532.7	2162.6	1800.8	1505.1	1314.9	1186.7	1102.0	1054.4	1037.9	1033.8
60°	2718.8	2545.1	2168.8	1802.9	1503.1	1310.8	1184.7	1095.8	1046.2	1027.6	1027.6
62.5°	2735.3	2555.4	2160.5	1786.3	1480.3	1288.1	1164.0	1071.0	1015.1	994.5	994.5
65°	2700.2	2518.2	2113.0	1740.8	1434.9	1248.8	1124.7	1029.6	967.6	946.9	946.9
67.5°	2596.8	2427.3	2026.2	1656.1	1360.4	1180.5	1060.6	963.5	905.6	882.8	876.6
70°	2421.1	2278.4	1889.7	1534.1	1259.1	1093.7	980.0	887.0	827.0	804.3	796.0
72.5°	2185.4	2044.8	1707.8	1385.2	1124.7	980.0	880.8	791.9	725.7	703.0	705.0
75°	1860.8	1761.5	1472.1	1197.1	969.7	835.3	752.6	678.1	622.3	603.7	605.8
77.5°	1509.3	1426.6	1193.0	975.9	791.9	688.5	618.2	558.2	521.0	510.7	504.5
80°	1155.7	1075.1	895.2	727.8	601.6	529.3	481.7	440.4	411.4	397.0	401.1
82.5°	775.3	725.7	593.4	481.7	409.4	357.7	341.1	314.3	303.9	295.7	301.9
85°	417.6	374.2	310.1	258.4	225.4	210.9	215.0	213.0	204.7	202.6	208.8
87.5°	136.5	117.8	91.0	76.5	78.6	70.3	70.3	66.2	60.0	57.9	62.0
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)