

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: P472200

Luminaire Tested: **CCW-VA-6-840-U-T4W**

Issue Date: 01/27/2021

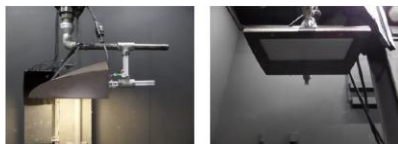
Test Information

Test Method: LM-79-08
Report Number: P472200
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-6-840-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9651.6 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

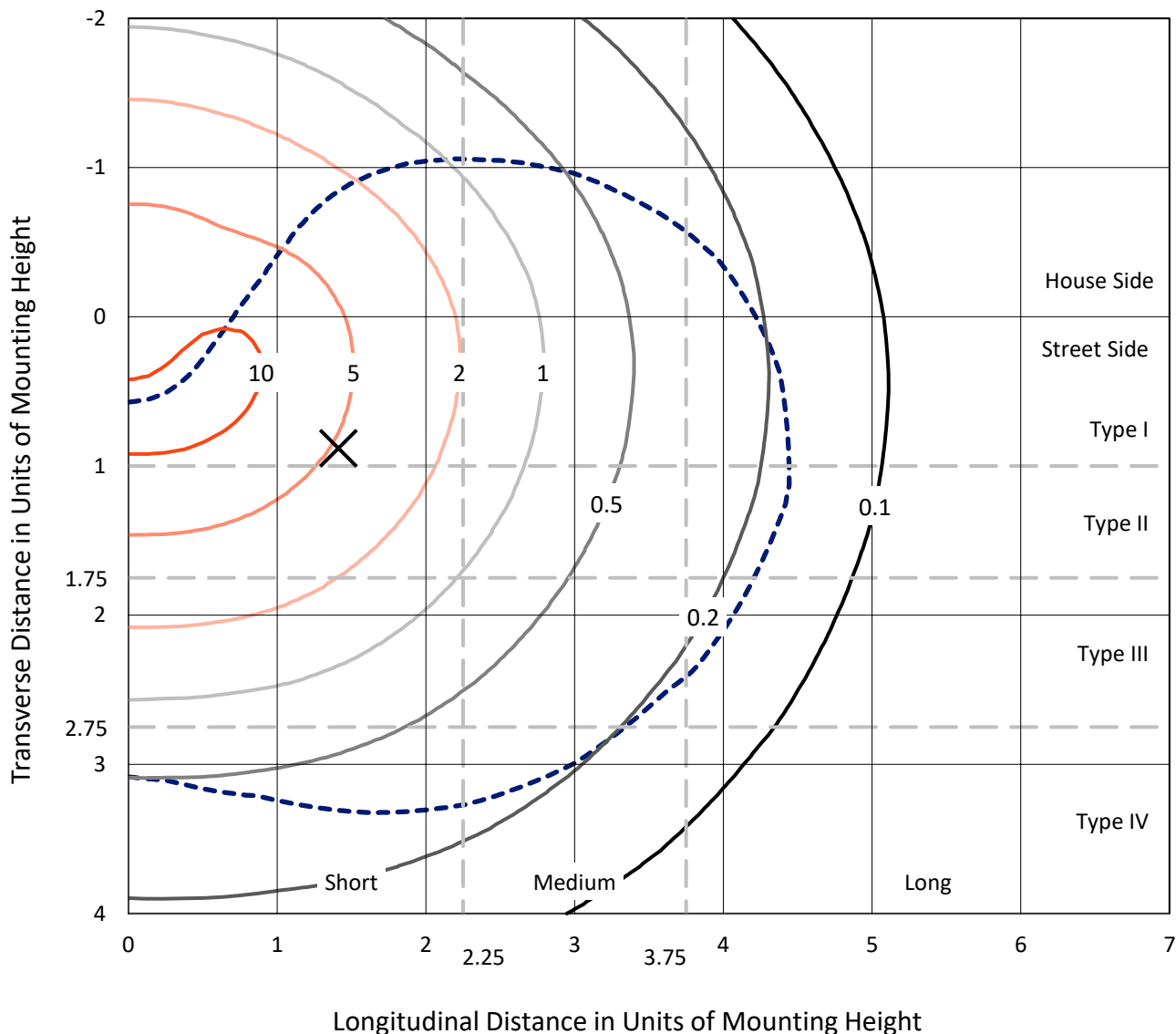
Input Watts (W): 101.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472200
 CATALOG NUMBER: CCW-VA-6-840-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

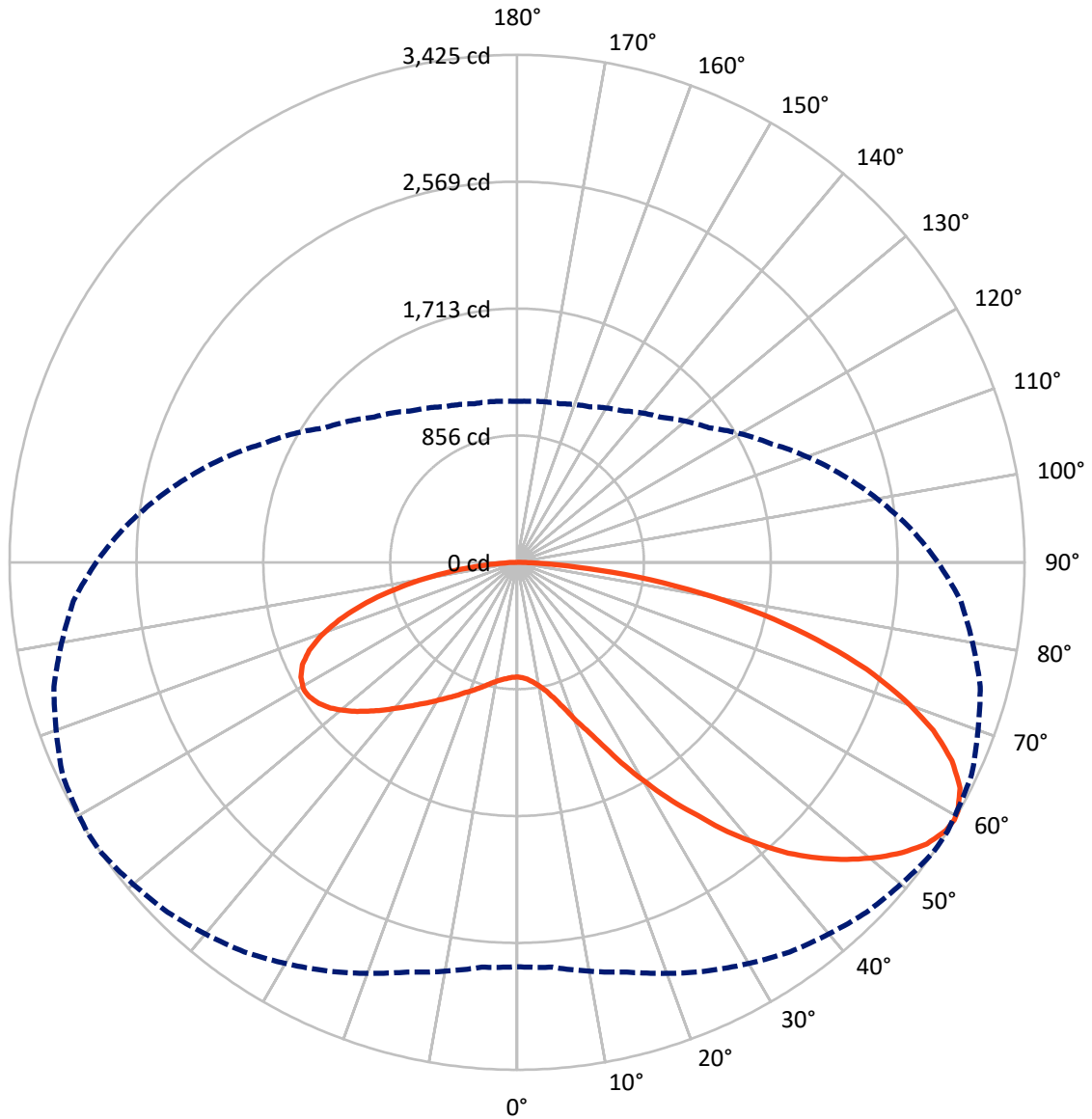
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P472200
CATALOG NUMBER: CCW-VA-6-840-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P472200
 CATALOG NUMBER: CCW-VA-6-840-U-T4W

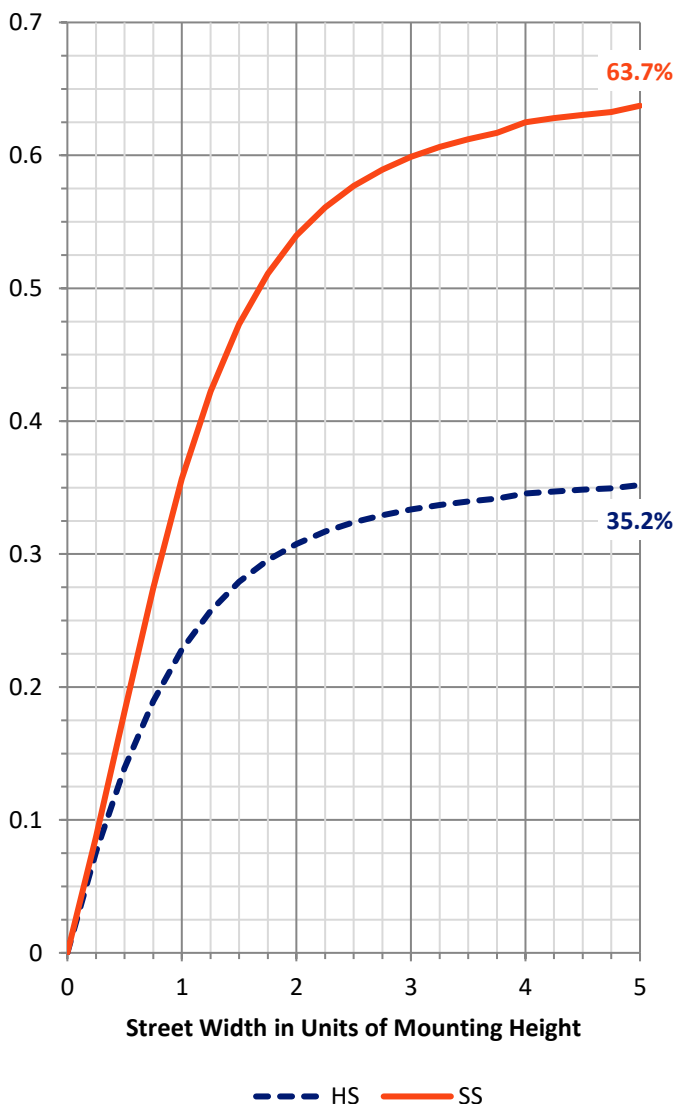
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3442.1	0.0	3442.1
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	6209.5	0.0	6209.5
	% Fixture	64.3	0.0	64.3
Total	Lumens	9651.6	0.0	9651.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	0.8
10°-20°	261.8	2.7
20°-30°	552.6	5.7
30°-40°	1017.0	10.5
40°-50°	1585.1	16.4
50°-60°	2082.8	21.6
60°-70°	2182.5	22.6
70°-80°	1513.2	15.7
80°-90°	380.0	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°	9651.6	100.0
0°-180°	9651.6	100.0

Coefficient of Utilization

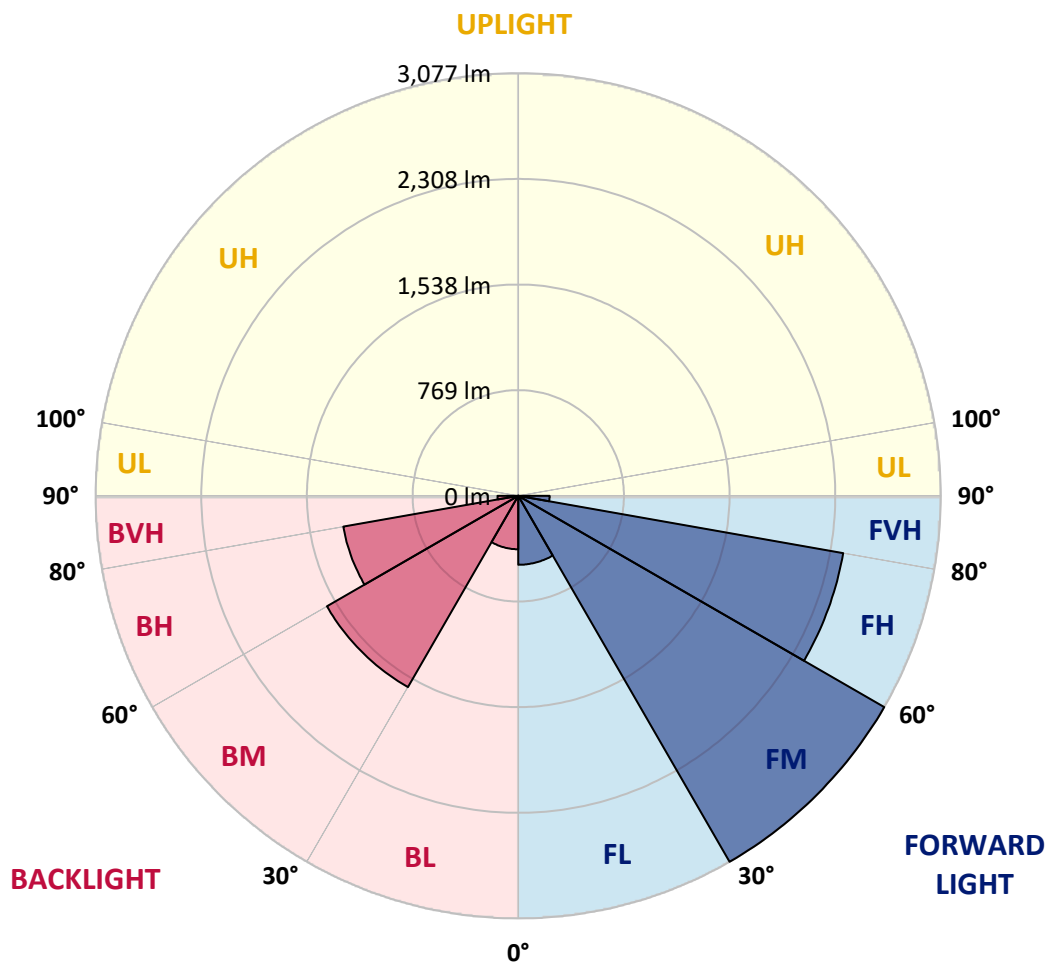


REPORT NUMBER: P472200
 CATALOG NUMBER: CCW-VA-6-840-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.1	5.2			
FM (30°-60°)	3076.8	31.9			
FH (60°-80°)	2402.3	24.9			G2/5000
FVH (80°-90°)	228.3	2.4			G3/500
BL (0°-30°)	389.1	4.0	B1/500		
BM (30°-60°)	1608.1	16.7	B2/2500		
BH (60°-80°)	1293.3	13.4	B3/2500		G3/2500
BVH (80°-90°)	151.6	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: P472200

CATALOG NUMBER: CCW-VA-6-840-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7
2.5°	784.6	784.6	784.6	782.4	782.4	782.4	780.2	780.2	780.2	778.1	775.9
5°	802.0	802.0	799.8	802.0	799.8	797.6	795.5	795.5	795.5	793.3	791.1
7.5°	825.9	828.1	825.9	828.1	825.9	823.7	819.4	819.4	817.2	812.8	808.5
10°	862.8	862.8	862.8	860.7	858.5	856.3	854.1	852.0	849.8	843.3	836.8
12.5°	908.5	908.5	908.5	904.1	904.1	899.8	897.6	895.4	891.1	882.4	873.7
15°	965.0	962.8	969.3	969.3	967.2	967.2	960.6	956.3	951.9	938.9	919.3
17.5°	1041.1	1038.9	1045.4	1049.7	1049.7	1051.9	1041.1	1036.7	1021.5	1004.1	978.0
20°	1143.2	1138.9	1145.4	1149.7	1145.4	1149.7	1138.9	1141.0	1119.3	1088.9	1047.6
22.5°	1254.0	1254.0	1260.6	1260.6	1262.7	1267.1	1254.0	1247.5	1230.1	1186.7	1134.5
25°	1391.0	1401.8	1401.8	1401.8	1410.5	1412.7	1399.7	1388.8	1364.9	1306.2	1234.5
27.5°	1558.3	1556.1	1554.0	1567.0	1567.0	1571.4	1562.7	1558.3	1530.1	1458.3	1349.7
30°	1736.5	1723.5	1732.2	1736.5	1745.2	1751.8	1743.1	1730.0	1695.2	1617.0	1482.3
32.5°	1899.5	1908.2	1921.3	1925.6	1938.7	1940.8	1919.1	1919.1	1884.3	1784.4	1645.3
35°	2084.3	2084.3	2119.1	2134.3	2134.3	2147.3	2114.7	2097.3	2073.4	1969.1	1793.0
37.5°	2245.1	2249.5	2277.7	2312.5	2316.8	2336.4	2312.5	2306.0	2262.5	2156.0	1960.4
40°	2395.1	2399.4	2434.2	2475.5	2499.4	2529.8	2505.9	2495.1	2449.4	2327.7	2127.8
42.5°	2512.4	2521.1	2564.6	2625.5	2664.6	2701.5	2690.7	2684.1	2621.1	2492.9	2282.1
45°	2601.6	2616.8	2677.6	2749.3	2803.7	2858.0	2860.2	2847.1	2788.5	2645.0	2432.0
47.5°	2673.3	2690.7	2758.0	2849.3	2931.9	2999.3	3012.3	2997.1	2942.8	2792.8	2566.8
50°	2732.0	2740.6	2816.7	2934.1	3036.2	3121.0	3147.1	3134.0	3086.2	2916.7	2684.1
52.5°	2762.4	2775.4	2862.4	2997.1	3121.0	3223.1	3262.3	3255.7	3199.2	3029.7	2788.5
55°	2777.6	2790.6	2892.8	3047.1	3186.2	3305.7	3353.5	3355.7	3301.4	3131.9	2886.3
57.5°	2760.2	2777.6	2888.4	3060.1	3214.4	3342.7	3416.6	3414.4	3370.9	3210.1	2968.9
59°	2729.8	2742.8	2862.4	3042.8	3210.1	3338.3	3423.1	3425.3	3386.1	3236.2	3005.8
60°	2695.0	2710.2	2831.9	3021.0	3192.7	3323.1	3412.2	3416.6	3384.0	3242.7	3021.0
62.5°	2575.5	2595.0	2729.8	2931.9	3118.8	3242.7	3349.2	3355.7	3338.3	3225.3	3031.9
65°	2408.1	2425.5	2571.1	2786.3	2981.9	3110.1	3210.1	3225.3	3223.1	3147.1	2988.4
67.5°	2203.8	2206.0	2342.9	2577.6	2781.9	2908.0	3003.6	3029.7	3049.3	2999.3	2860.2
70°	1958.2	1956.1	2088.6	2321.2	2525.5	2658.1	2753.7	2771.1	2821.1	2781.9	2668.9
72.5°	1654.0	1680.0	1803.9	1999.5	2201.6	2349.4	2434.2	2466.8	2495.1	2503.7	2410.3
75°	1367.1	1395.3	1493.1	1675.7	1849.6	1986.5	2077.8	2093.0	2145.1	2158.2	2071.2
77.5°	1093.2	1095.4	1167.1	1312.7	1471.4	1584.4	1658.3	1697.4	1725.7	1751.8	1660.5
80°	767.2	778.1	828.1	932.4	1056.3	1175.8	1236.7	1262.7	1282.3	1299.7	1269.3
82.5°	480.3	484.7	517.3	580.3	665.1	732.4	795.5	817.2	821.5	860.7	856.3
85°	228.2	230.4	252.1	282.5	319.5	373.8	397.7	397.7	428.2	456.4	456.4
87.5°	30.4	30.4	36.9	41.3	52.2	67.4	93.5	95.6	113.0	126.1	136.9
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: P472200
 CATALOG NUMBER: CCW-VA-6-840-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7
2.5°	775.9	775.9	775.9	775.9	775.9	773.7	775.9	775.9	775.9	775.9	775.9
5°	791.1	788.9	786.8	784.6	784.6	782.4	782.4	782.4	782.4	782.4	782.4
7.5°	806.3	804.2	802.0	797.6	795.5	793.3	793.3	791.1	791.1	791.1	791.1
10°	832.4	830.2	821.5	815.0	810.7	808.5	806.3	804.2	802.0	802.0	802.0
12.5°	867.2	862.8	847.6	838.9	832.4	828.1	823.7	821.5	819.4	817.2	817.2
15°	910.7	899.8	880.2	867.2	858.5	852.0	845.5	841.1	838.9	836.8	836.8
17.5°	962.8	949.8	923.7	899.8	884.6	873.7	865.0	858.5	856.3	856.3	856.3
20°	1028.0	1006.3	969.3	936.7	912.8	897.6	884.6	878.1	875.9	873.7	871.5
22.5°	1104.1	1075.8	1021.5	971.5	941.1	919.3	904.1	895.4	888.9	886.7	886.7
25°	1191.0	1149.7	1078.0	1017.1	975.9	945.4	925.9	915.0	904.1	899.8	899.8
27.5°	1295.3	1241.0	1145.4	1065.0	1008.5	971.5	949.8	934.6	923.7	915.0	910.7
30°	1408.4	1347.5	1219.3	1117.1	1045.4	1004.1	978.0	960.6	945.4	930.2	928.0
32.5°	1551.8	1464.9	1308.4	1175.8	1088.9	1036.7	1006.3	984.5	965.0	949.8	945.4
35°	1697.4	1593.1	1401.8	1236.7	1130.2	1067.1	1030.2	1006.3	986.7	969.3	967.2
37.5°	1847.4	1736.5	1504.0	1308.4	1178.0	1101.9	1056.3	1030.2	1006.3	988.9	986.7
40°	2003.9	1873.5	1608.3	1382.3	1228.0	1136.7	1084.5	1051.9	1025.8	1010.6	1008.5
42.5°	2151.7	2010.4	1721.3	1469.2	1286.6	1173.6	1112.8	1078.0	1045.4	1030.2	1028.0
45°	2292.9	2140.8	1834.3	1549.6	1345.3	1212.8	1141.0	1099.7	1065.0	1049.7	1047.6
47.5°	2421.2	2269.0	1938.7	1636.6	1406.2	1256.2	1171.5	1121.5	1082.4	1067.1	1067.1
50°	2536.4	2377.7	2040.8	1717.0	1462.7	1299.7	1197.5	1141.0	1101.9	1086.7	1084.5
52.5°	2645.0	2473.3	2129.9	1786.5	1517.0	1338.8	1223.6	1156.2	1115.0	1097.6	1095.4
55°	2732.0	2560.3	2203.8	1843.0	1554.0	1364.9	1241.0	1164.9	1119.3	1104.1	1101.9
57.5°	2808.0	2632.0	2256.0	1882.2	1577.9	1380.1	1249.7	1164.9	1117.1	1099.7	1097.6
59°	2840.6	2662.4	2273.4	1893.0	1582.2	1382.3	1247.5	1158.4	1108.4	1091.0	1086.7
60°	2858.0	2675.4	2279.9	1895.2	1580.1	1377.9	1245.4	1151.9	1099.7	1080.2	1080.2
62.5°	2875.4	2686.3	2271.2	1877.8	1556.1	1354.0	1223.6	1125.8	1067.1	1045.4	1045.4
65°	2838.5	2647.2	2221.2	1830.0	1508.3	1312.7	1182.3	1082.4	1017.1	995.4	995.4
67.5°	2729.8	2551.6	2129.9	1740.9	1430.1	1241.0	1115.0	1012.8	951.9	928.0	921.5
70°	2545.0	2395.1	1986.5	1612.7	1323.6	1149.7	1030.2	932.4	869.4	845.5	836.8
72.5°	2297.3	2149.5	1795.2	1456.2	1182.3	1030.2	925.9	832.4	762.9	739.0	741.1
75°	1956.1	1851.7	1547.5	1258.4	1019.3	878.1	791.1	712.9	654.2	634.6	636.8
77.5°	1586.6	1499.6	1254.0	1025.8	832.4	723.7	649.8	586.8	547.7	536.8	530.3
80°	1214.9	1130.2	941.1	765.0	632.5	556.4	506.4	462.9	432.5	417.3	421.6
82.5°	815.0	762.9	623.8	506.4	430.3	376.0	358.6	330.4	319.5	310.8	317.3
85°	439.0	393.4	326.0	271.7	236.9	221.7	226.0	223.9	215.2	213.0	219.5
87.5°	143.4	123.9	95.6	80.4	82.6	73.9	73.9	69.5	63.0	60.9	65.2
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)