

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: P472194

Luminaire Tested: **CCW-VA-6-835-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472194
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-6-835-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9344.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

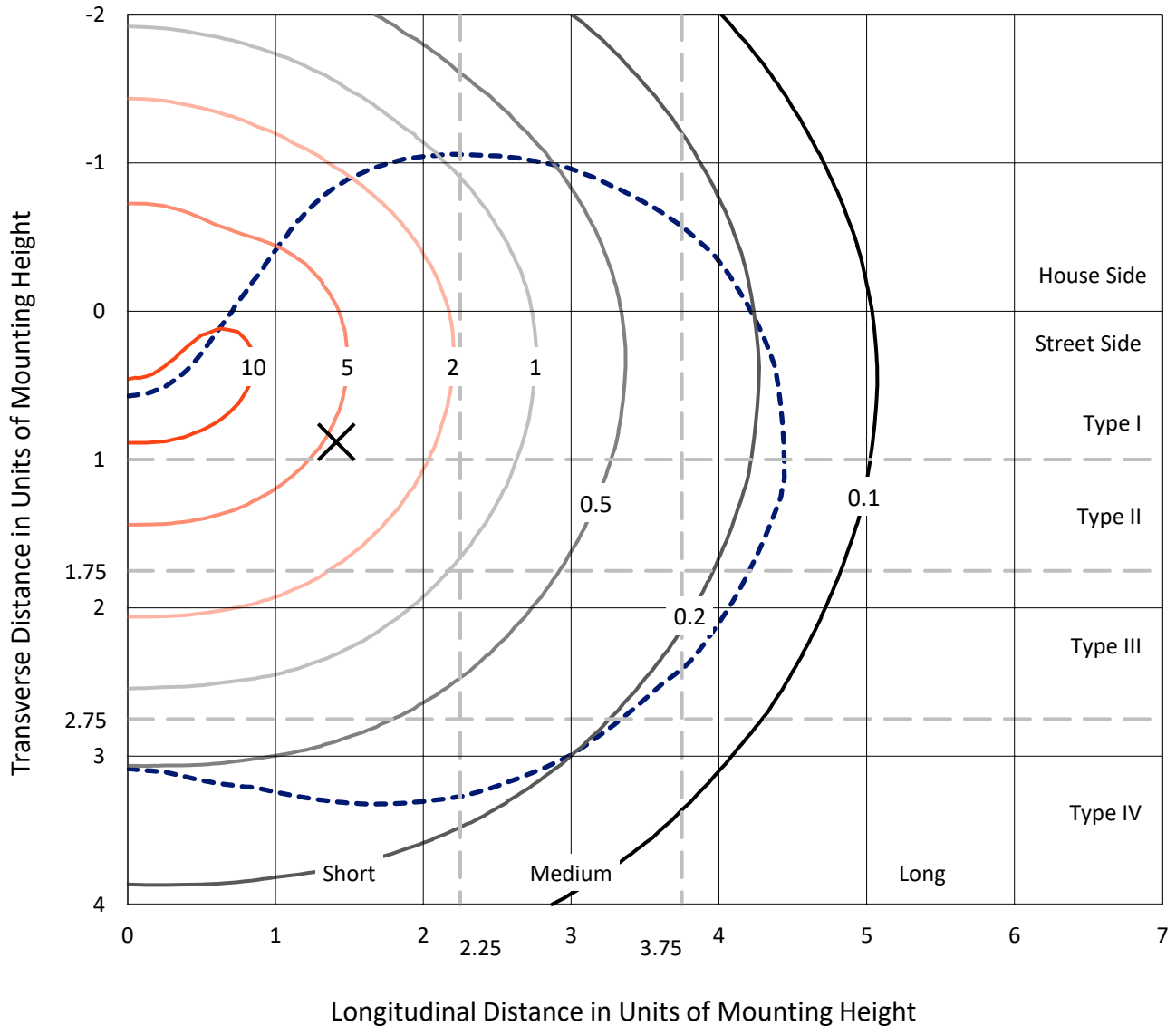
Input Watts (W): 101.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

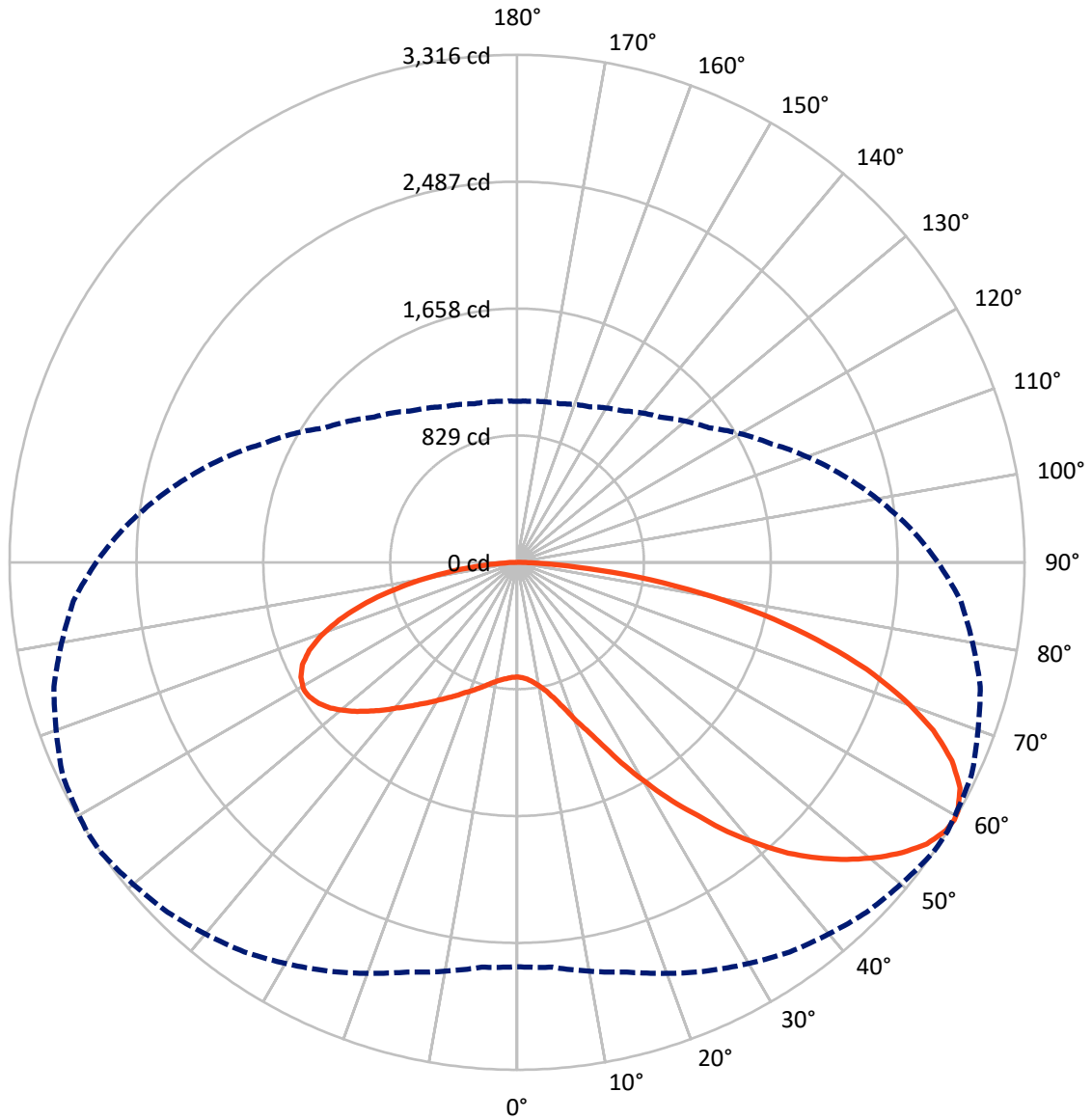
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 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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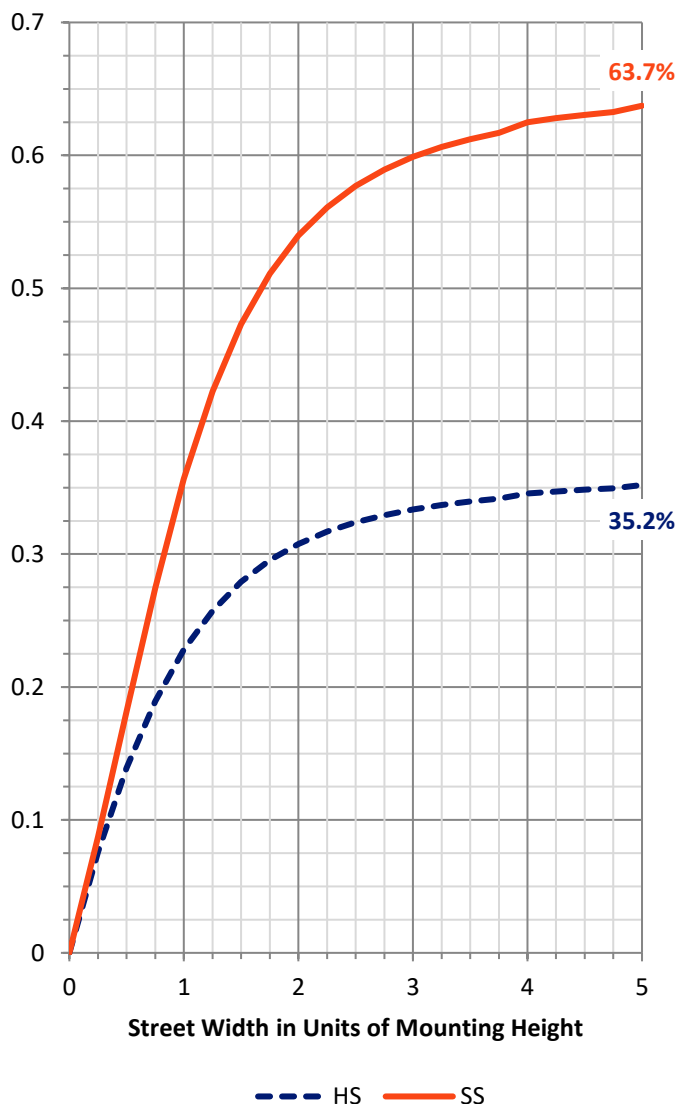
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3332.7	0.0	3332.7
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	6012.2	0.0	6012.2
	% Fixture	64.3	0.0	64.3
Total	Lumens	9344.9	0.0	9344.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	0.8
10°-20°	253.5	2.7
20°-30°	535.0	5.7
30°-40°	984.6	10.5
40°-50°	1534.7	16.4
50°-60°	2016.6	21.6
60°-70°	2113.1	22.6
70°-80°	1465.1	15.7
80°-90°	367.9	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°	9344.9	100.0
0°-180°	9344.9	100.0

Coefficient of Utilization



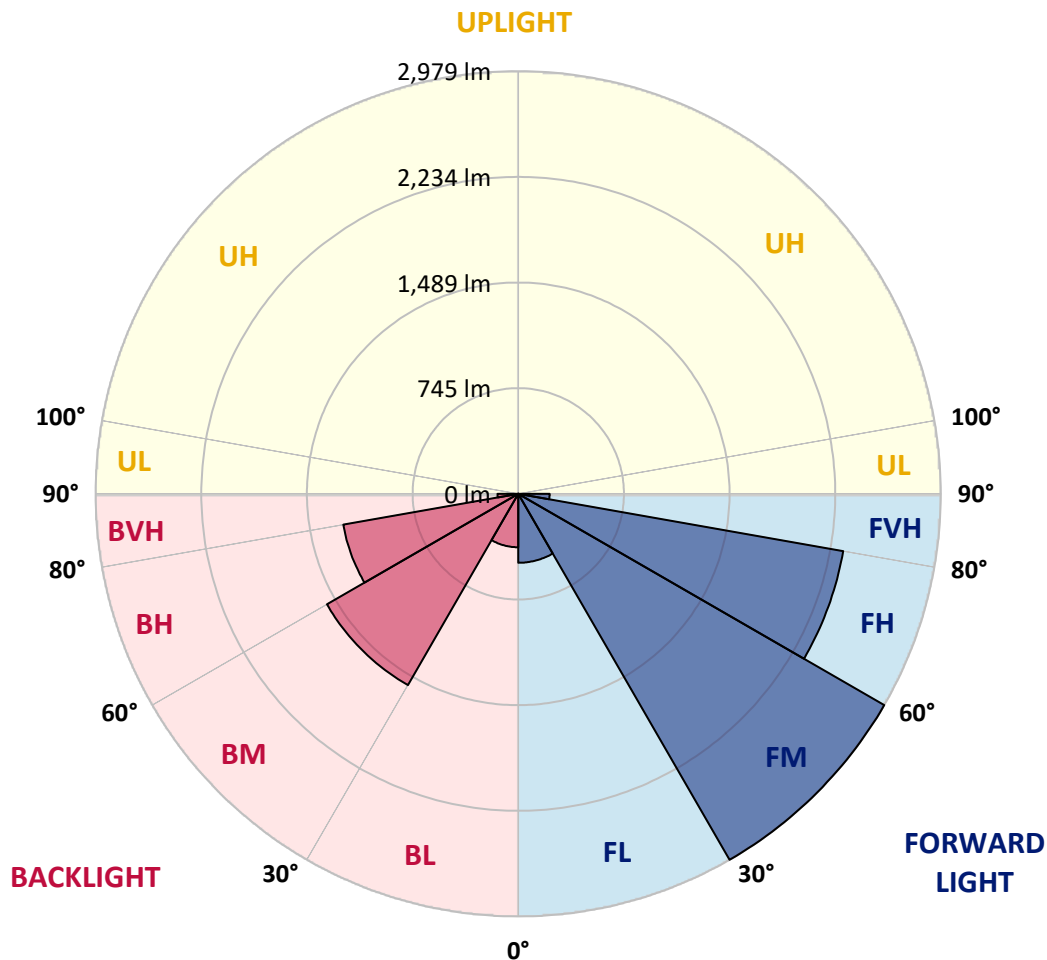
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.1	5.2			
FM (30°-60°)	2979.0	31.9			
FH (60°-80°)	2326.0	24.9			G2/5000
FVH (80°-90°)	221.1	2.4			G2/225
BL (0°-30°)	376.7	4.0	B1/500		
BM (30°-60°)	1557.0	16.7	B2/2500		
BH (60°-80°)	1252.2	13.4	B3/2500		G3/2500
BVH (80°-90°)	146.8	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°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1
2.5°	759.7	759.7	759.7	757.6	757.6	757.6	755.5	755.5	755.5	753.3	751.2
5°	776.5	776.5	774.4	776.5	774.4	772.3	770.2	770.2	770.2	768.1	766.0
7.5°	799.6	801.7	799.6	801.7	799.6	797.5	793.3	793.3	791.2	787.0	782.8
10°	835.4	835.4	835.4	833.3	831.2	829.1	827.0	824.9	822.8	816.5	810.2
12.5°	879.6	879.6	879.6	875.4	875.4	871.2	869.1	867.0	862.8	854.4	845.9
15°	934.3	932.2	938.5	938.5	936.4	936.4	930.1	925.9	921.7	909.1	890.1
17.5°	1008.0	1005.9	1012.2	1016.4	1016.4	1018.5	1008.0	1003.8	989.0	972.2	946.9
20°	1106.9	1102.7	1109.0	1113.2	1109.0	1113.2	1102.7	1104.8	1083.7	1054.3	1014.3
22.5°	1214.2	1214.2	1220.5	1220.5	1222.6	1226.8	1214.2	1207.9	1191.0	1149.0	1098.5
25°	1346.8	1357.3	1357.3	1357.3	1365.7	1367.8	1355.2	1344.7	1321.5	1264.7	1195.3
27.5°	1508.8	1506.7	1504.6	1517.2	1517.2	1521.4	1513.0	1508.8	1481.4	1412.0	1306.8
30°	1681.3	1668.7	1677.1	1681.3	1689.8	1696.1	1687.7	1675.0	1641.4	1565.6	1435.1
32.5°	1839.2	1847.6	1860.2	1864.4	1877.1	1879.2	1858.1	1858.1	1824.4	1727.6	1593.0
35°	2018.0	2018.0	2051.7	2066.4	2066.4	2079.1	2047.5	2030.7	2007.5	1906.5	1736.1
37.5°	2173.8	2178.0	2205.3	2239.0	2243.2	2262.1	2239.0	2232.7	2190.6	2087.5	1898.1
40°	2319.0	2323.2	2356.8	2396.8	2420.0	2449.4	2426.3	2415.8	2371.6	2253.7	2060.1
42.5°	2432.6	2441.0	2483.1	2542.0	2579.9	2615.7	2605.1	2598.8	2537.8	2413.7	2209.5
45°	2518.9	2533.6	2592.5	2662.0	2714.6	2767.2	2769.3	2756.7	2699.8	2561.0	2354.7
47.5°	2588.3	2605.1	2670.4	2758.8	2838.7	2904.0	2916.6	2901.9	2849.2	2704.0	2485.2
50°	2645.1	2653.5	2727.2	2840.8	2939.7	3021.8	3047.1	3034.4	2988.1	2824.0	2598.8
52.5°	2674.6	2687.2	2771.4	2901.9	3021.8	3120.7	3158.6	3152.3	3097.6	2933.4	2699.8
55°	2689.3	2701.9	2800.8	2950.3	3084.9	3200.7	3247.0	3249.1	3196.5	3032.3	2794.5
57.5°	2672.5	2689.3	2796.6	2962.9	3112.3	3236.4	3308.0	3305.9	3263.8	3108.1	2874.5
59°	2643.0	2655.6	2771.4	2946.0	3108.1	3232.2	3314.3	3316.4	3278.5	3133.3	2910.3
60°	2609.4	2624.1	2741.9	2925.0	3091.2	3217.5	3303.8	3308.0	3276.4	3139.6	2925.0
62.5°	2493.6	2512.6	2643.0	2838.7	3019.7	3139.6	3242.8	3249.1	3232.2	3122.8	2935.5
65°	2331.6	2348.4	2489.4	2697.7	2887.1	3011.3	3108.1	3122.8	3120.7	3047.1	2893.4
67.5°	2133.8	2135.9	2268.5	2495.7	2693.5	2815.6	2908.2	2933.4	2952.4	2904.0	2769.3
70°	1896.0	1893.9	2022.2	2247.4	2445.2	2573.6	2666.2	2683.0	2731.4	2693.5	2584.1
72.5°	1601.4	1626.6	1746.6	1936.0	2131.7	2274.8	2356.8	2388.4	2415.8	2424.2	2333.7
75°	1323.6	1351.0	1445.7	1622.4	1790.8	1923.3	2011.7	2026.5	2077.0	2089.6	2005.4
77.5°	1058.5	1060.6	1130.0	1271.0	1424.6	1534.0	1605.6	1643.5	1670.8	1696.1	1607.7
80°	742.8	753.3	801.7	902.8	1022.7	1138.4	1197.4	1222.6	1241.5	1258.4	1228.9
82.5°	465.1	469.3	500.8	561.9	643.9	709.2	770.2	791.2	795.4	833.3	829.1
85°	221.0	223.1	244.1	273.6	309.3	361.9	385.1	385.1	414.6	441.9	441.9
87.5°	29.5	29.5	35.8	40.0	50.5	65.2	90.5	92.6	109.4	122.1	132.6
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°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1
2.5°	751.2	751.2	751.2	751.2	751.2	749.1	751.2	751.2	751.2	751.2	751.2
5°	766.0	763.9	761.8	759.7	759.7	757.6	757.6	757.6	757.6	757.6	757.6
7.5°	780.7	778.6	776.5	772.3	770.2	768.1	768.1	766.0	766.0	766.0	766.0
10°	806.0	803.8	795.4	789.1	784.9	782.8	780.7	778.6	776.5	776.5	776.5
12.5°	839.6	835.4	820.7	812.3	806.0	801.7	797.5	795.4	793.3	791.2	791.2
15°	881.7	871.2	852.2	839.6	831.2	824.9	818.6	814.4	812.3	810.2	810.2
17.5°	932.2	919.6	894.3	871.2	856.5	845.9	837.5	831.2	829.1	829.1	829.1
20°	995.3	974.3	938.5	907.0	883.8	869.1	856.5	850.1	848.0	845.9	843.8
22.5°	1069.0	1041.6	989.0	940.6	911.2	890.1	875.4	867.0	860.7	858.6	858.6
25°	1153.2	1113.2	1043.7	984.8	944.8	915.4	896.4	885.9	875.4	871.2	871.2
27.5°	1254.2	1201.6	1109.0	1031.1	976.4	940.6	919.6	904.9	894.3	885.9	881.7
30°	1363.6	1304.7	1180.5	1081.6	1012.2	972.2	946.9	930.1	915.4	900.6	898.5
32.5°	1502.5	1418.3	1266.8	1138.4	1054.3	1003.8	974.3	953.3	934.3	919.6	915.4
35°	1643.5	1542.5	1357.3	1197.4	1094.2	1033.2	997.4	974.3	955.4	938.5	936.4
37.5°	1788.7	1681.3	1456.2	1266.8	1140.5	1066.9	1022.7	997.4	974.3	957.5	955.4
40°	1940.2	1813.9	1557.2	1338.3	1188.9	1100.6	1050.1	1018.5	993.2	978.5	976.4
42.5°	2083.3	1946.5	1666.6	1422.5	1245.8	1136.3	1077.4	1043.7	1012.2	997.4	995.3
45°	2220.1	2072.8	1776.0	1500.4	1302.6	1174.2	1104.8	1064.8	1031.1	1016.4	1014.3
47.5°	2344.2	2196.9	1877.1	1584.6	1361.5	1216.3	1134.2	1085.8	1048.0	1033.2	1033.2
50°	2455.7	2302.1	1976.0	1662.4	1416.2	1258.4	1159.5	1104.8	1066.9	1052.2	1050.1
52.5°	2561.0	2394.7	2062.2	1729.7	1468.8	1296.3	1184.7	1119.5	1079.5	1062.7	1060.6
55°	2645.1	2478.9	2133.8	1784.5	1504.6	1321.5	1201.6	1127.9	1083.7	1069.0	1066.9
57.5°	2718.8	2548.3	2184.3	1822.3	1527.7	1336.2	1210.0	1127.9	1081.6	1064.8	1062.7
59°	2750.3	2577.8	2201.1	1832.9	1531.9	1338.3	1207.9	1121.6	1073.2	1056.4	1052.2
60°	2767.2	2590.4	2207.4	1835.0	1529.8	1334.1	1205.8	1115.3	1064.8	1045.8	1045.8
62.5°	2784.0	2600.9	2199.0	1818.1	1506.7	1311.0	1184.7	1090.0	1033.2	1012.2	1012.2
65°	2748.2	2563.1	2150.6	1771.8	1460.4	1271.0	1144.7	1048.0	984.8	963.8	963.8
67.5°	2643.0	2470.5	2062.2	1685.6	1384.6	1201.6	1079.5	980.6	921.7	898.5	892.2
70°	2464.2	2319.0	1923.3	1561.4	1281.5	1113.2	997.4	902.8	841.7	818.6	810.2
72.5°	2224.3	2081.2	1738.2	1409.9	1144.7	997.4	896.4	806.0	738.6	715.5	717.6
75°	1893.9	1792.9	1498.3	1218.4	986.9	850.1	766.0	690.2	633.4	614.5	616.6
77.5°	1536.2	1452.0	1214.2	993.2	806.0	700.7	629.2	568.2	530.3	519.8	513.5
80°	1176.3	1094.2	911.2	740.7	612.4	538.7	490.3	448.2	418.8	404.0	408.2
82.5°	789.1	738.6	603.9	490.3	416.7	364.0	347.2	319.9	309.3	300.9	307.2
85°	425.1	380.9	315.6	263.0	229.4	214.6	218.8	216.7	208.3	206.2	212.5
87.5°	138.9	119.9	92.6	77.9	80.0	71.5	71.5	67.3	61.0	58.9	63.1
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)