

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: P472182

Luminaire Tested: **CCW-VA-6-827-U-T4W**

Issue Date: 01/27/2021

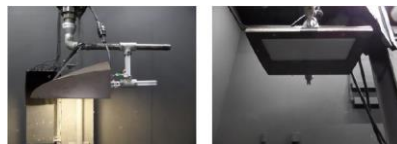
Test Information

Test Method: LM-79-08
Report Number: P472182
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-6-827-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8854.5 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

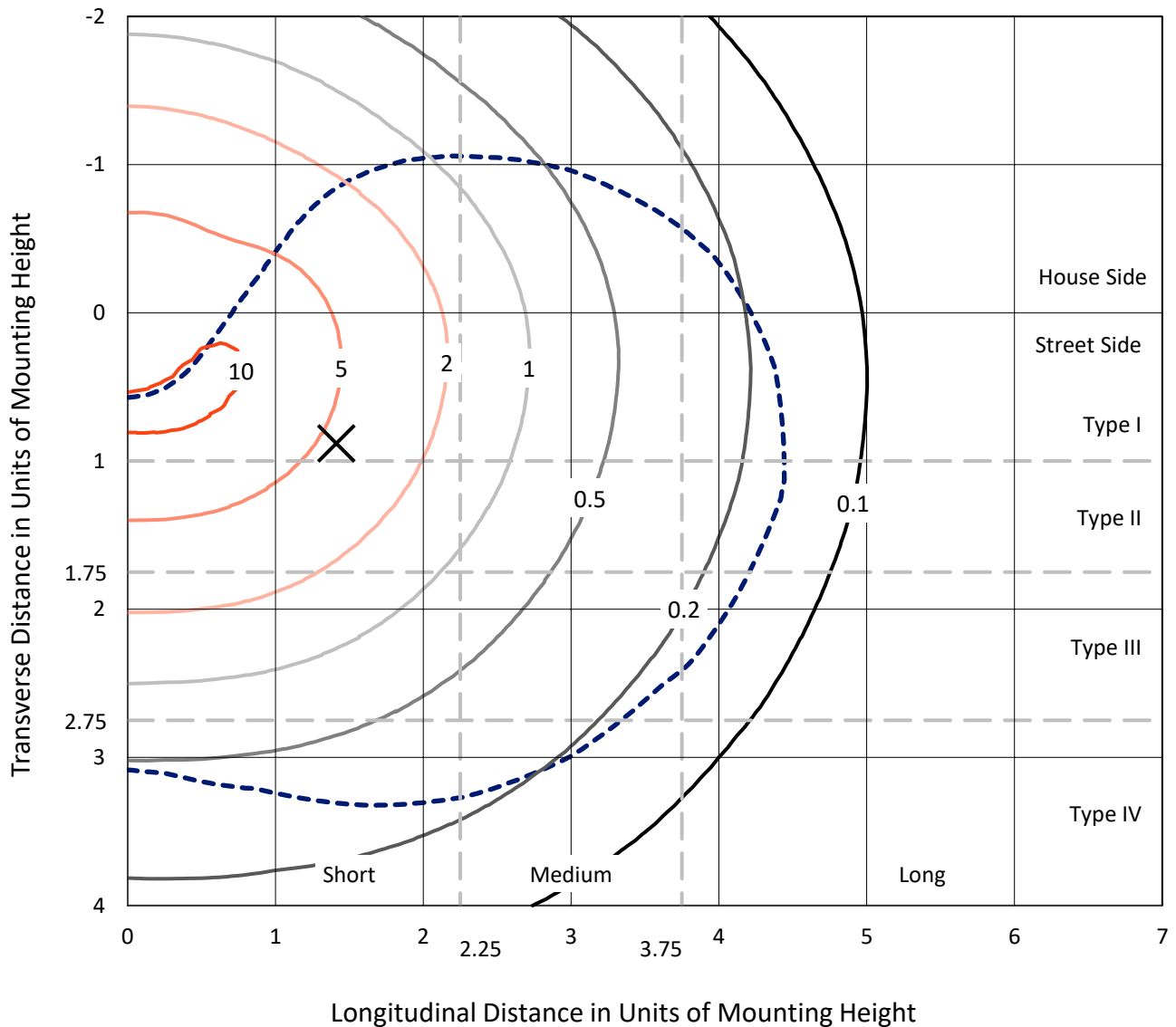
Input Watts (W): 101.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

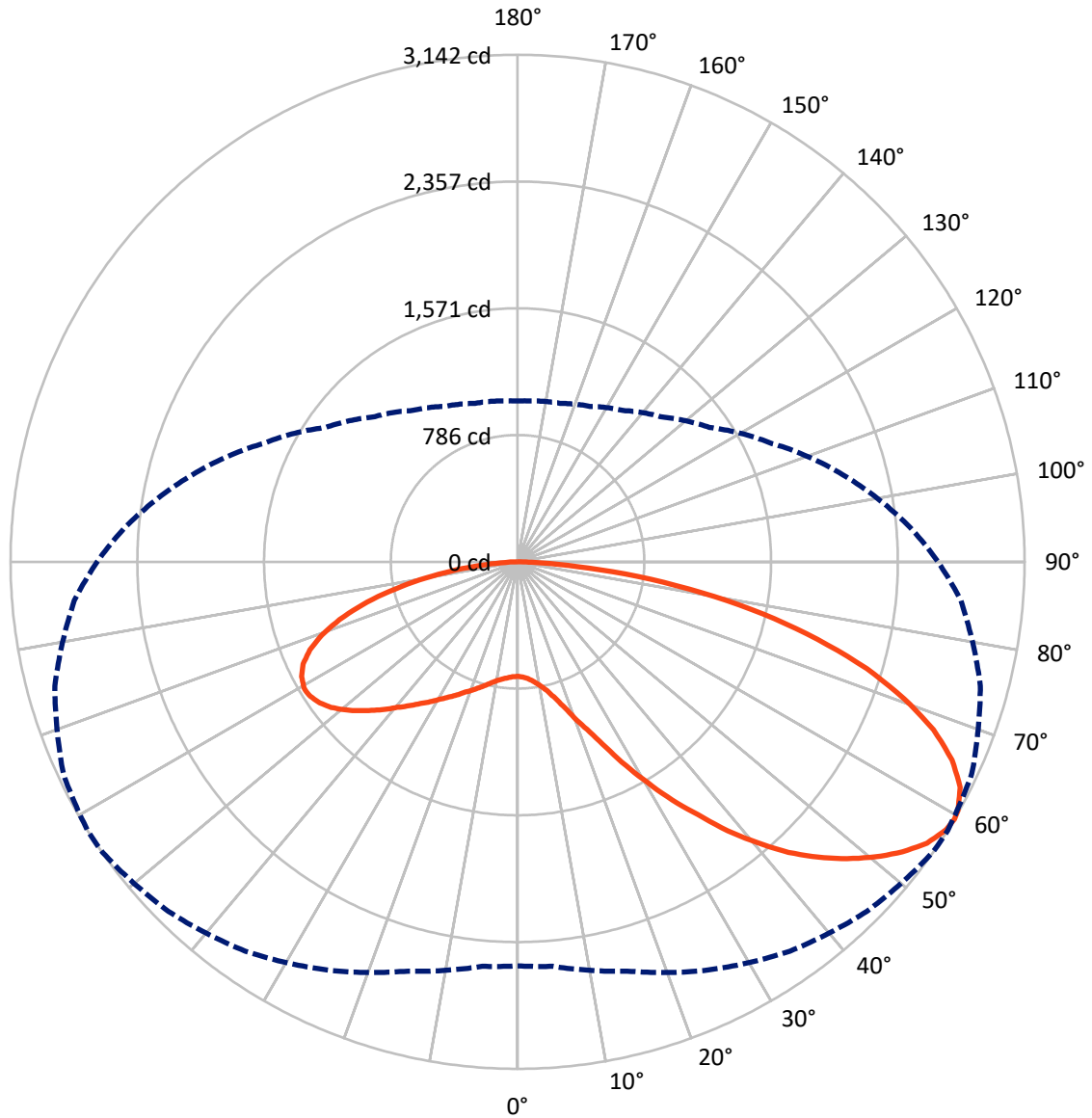
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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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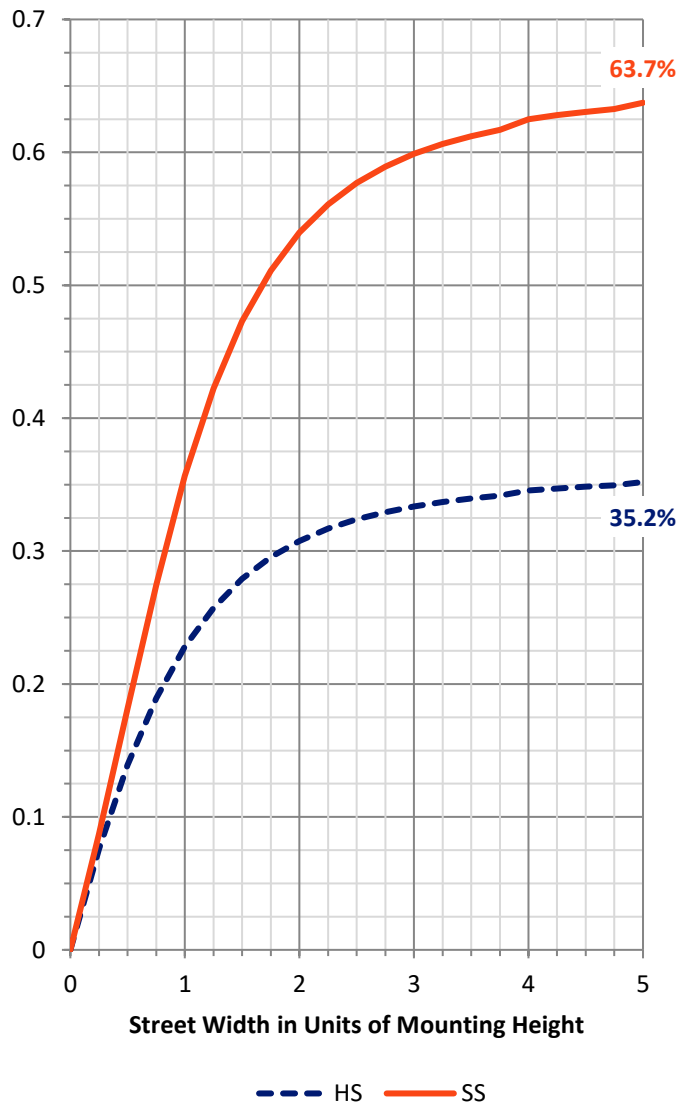
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3157.9	0.0	3157.9
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	5696.7	0.0	5696.7
	% Fixture	64.3	0.0	64.3
Total	Lumens	8854.5	0.0	8854.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	0.8
10°-20°	240.2	2.7
20°-30°	506.9	5.7
30°-40°	933.0	10.5
40°-50°	1454.2	16.4
50°-60°	1910.8	21.6
60°-70°	2002.2	22.6
70°-80°	1388.2	15.7
80°-90°	348.6	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°	8854.5	100.0
0°-180°	8854.5	100.0

Coefficient of Utilization



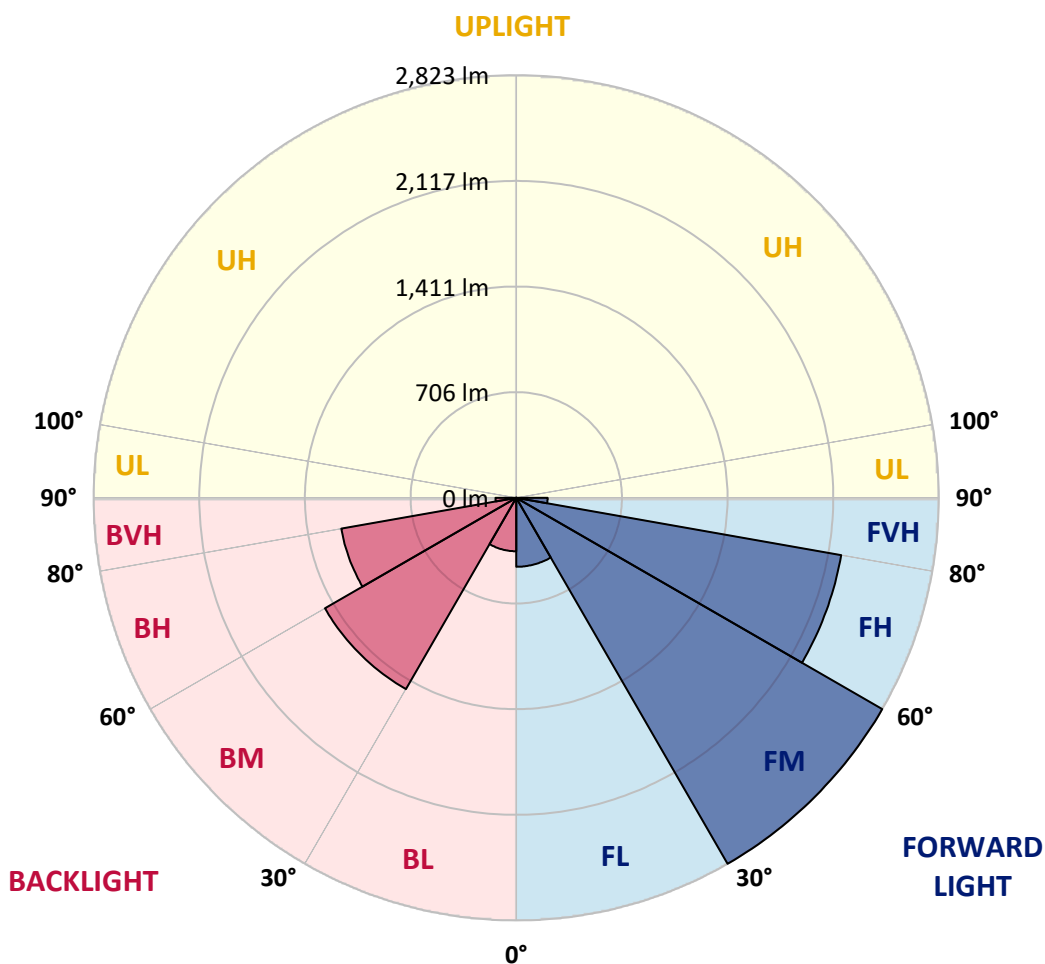
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.6	5.2			
FM (30°-60°)	2822.7	31.9			
FH (60°-80°)	2203.9	24.9			G2/5000
FVH (80°-90°)	209.5	2.4			G2/225
BL (0°-30°)	356.9	4.0	B1/500		
BM (30°-60°)	1475.3	16.7	B2/2500		
BH (60°-80°)	1186.5	13.4	B3/2500		G3/2500
BVH (80°-90°)	139.1	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°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
2.5°	719.8	719.8	719.8	717.8	717.8	717.8	715.8	715.8	715.8	713.8	711.8
5°	735.7	735.7	733.8	735.7	733.8	731.8	729.8	729.8	729.8	727.8	725.8
7.5°	757.7	759.7	757.7	759.7	757.7	755.7	751.7	751.7	749.7	745.7	741.7
10°	791.6	791.6	791.6	789.6	787.6	785.6	783.6	781.6	779.6	773.6	767.6
12.5°	833.4	833.4	833.4	829.5	829.5	825.5	823.5	821.5	817.5	809.5	801.5
15°	885.3	883.3	889.3	889.3	887.3	887.3	881.3	877.3	873.3	861.4	843.4
17.5°	955.1	953.1	959.1	963.0	963.0	965.0	955.1	951.1	937.1	921.2	897.2
20°	1048.8	1044.8	1050.8	1054.8	1050.8	1054.8	1044.8	1046.8	1026.9	998.9	961.1
22.5°	1150.5	1150.5	1156.5	1156.5	1158.4	1162.4	1150.5	1144.5	1128.5	1088.7	1040.8
25°	1276.1	1286.1	1286.1	1286.1	1294.0	1296.0	1284.1	1274.1	1252.2	1198.3	1132.5
27.5°	1429.6	1427.6	1425.6	1437.6	1437.6	1441.6	1433.6	1429.6	1403.7	1337.9	1238.2
30°	1593.1	1581.2	1589.1	1593.1	1601.1	1607.1	1599.1	1587.1	1555.2	1483.5	1359.8
32.5°	1742.7	1750.6	1762.6	1766.6	1778.5	1780.5	1760.6	1760.6	1728.7	1637.0	1509.4
35°	1912.1	1912.1	1944.0	1958.0	1958.0	1970.0	1940.1	1924.1	1902.2	1806.5	1645.0
37.5°	2059.7	2063.7	2089.6	2121.5	2125.5	2143.4	2121.5	2115.5	2075.6	1977.9	1798.5
40°	2197.3	2201.3	2233.2	2271.0	2293.0	2320.9	2299.0	2289.0	2247.1	2135.5	1952.0
42.5°	2304.9	2312.9	2352.8	2408.6	2444.5	2478.4	2468.4	2462.5	2404.6	2287.0	2093.6
45°	2386.7	2400.6	2456.5	2522.3	2572.1	2622.0	2624.0	2612.0	2558.2	2426.6	2231.2
47.5°	2452.5	2468.4	2530.2	2614.0	2689.8	2751.6	2763.5	2749.6	2699.7	2562.1	2354.8
50°	2506.3	2514.3	2584.1	2691.7	2785.5	2863.2	2887.1	2875.2	2831.3	2675.8	2462.5
52.5°	2534.2	2546.2	2625.9	2749.6	2863.2	2956.9	2992.8	2986.8	2935.0	2779.5	2558.2
55°	2548.2	2560.2	2653.9	2795.4	2923.0	3032.7	3076.6	3078.6	3028.7	2873.2	2647.9
57.5°	2532.2	2548.2	2649.9	2807.4	2949.0	3066.6	3134.4	3132.4	3092.5	2945.0	2723.6
59°	2504.3	2516.3	2625.9	2791.4	2945.0	3062.6	3140.4	3142.4	3106.5	2968.9	2757.5
60°	2472.4	2486.4	2598.0	2771.5	2929.0	3048.7	3130.4	3134.4	3104.5	2974.9	2771.5
62.5°	2362.8	2380.7	2504.3	2689.8	2861.2	2974.9	3072.6	3078.6	3062.6	2958.9	2781.5
65°	2209.2	2225.2	2358.8	2556.2	2735.6	2853.3	2945.0	2958.9	2956.9	2887.1	2741.6
67.5°	2021.8	2023.8	2149.4	2364.8	2552.2	2667.8	2755.6	2779.5	2797.4	2751.6	2624.0
70°	1796.5	1794.5	1916.1	2129.5	2316.9	2438.5	2526.3	2542.2	2588.1	2552.2	2448.5
72.5°	1517.3	1541.3	1654.9	1834.4	2019.8	2155.4	2233.2	2263.1	2289.0	2297.0	2211.2
75°	1254.2	1280.1	1369.8	1537.3	1696.8	1822.4	1906.2	1920.1	1968.0	1979.9	1900.2
77.5°	1002.9	1004.9	1070.7	1204.3	1349.9	1453.5	1521.3	1557.2	1583.1	1607.1	1523.3
80°	703.8	713.8	759.7	855.4	969.0	1078.7	1134.5	1158.4	1176.4	1192.3	1164.4
82.5°	440.6	444.6	474.5	532.4	610.1	671.9	729.8	749.7	753.7	789.6	785.6
85°	209.4	211.4	231.3	259.2	293.1	342.9	364.9	364.9	392.8	418.7	418.7
87.5°	27.9	27.9	33.9	37.9	47.9	61.8	85.7	87.7	103.7	115.6	125.6
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°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
2.5°	711.8	711.8	711.8	711.8	711.8	709.8	711.8	711.8	711.8	711.8	711.8
5°	725.8	723.8	721.8	719.8	719.8	717.8	717.8	717.8	717.8	717.8	717.8
7.5°	739.7	737.7	735.7	731.8	729.8	727.8	727.8	725.8	725.8	725.8	725.8
10°	763.7	761.7	753.7	747.7	743.7	741.7	739.7	737.7	735.7	735.7	735.7
12.5°	795.6	791.6	777.6	769.6	763.7	759.7	755.7	753.7	751.7	749.7	749.7
15°	835.4	825.5	807.5	795.6	787.6	781.6	775.6	771.6	769.6	767.6	767.6
17.5°	883.3	871.3	847.4	825.5	811.5	801.5	793.6	787.6	785.6	785.6	785.6
20°	943.1	923.2	889.3	859.4	837.4	823.5	811.5	805.5	803.5	801.5	799.5
22.5°	1012.9	987.0	937.1	891.3	863.4	843.4	829.5	821.5	815.5	813.5	813.5
25°	1092.7	1054.8	989.0	933.1	895.3	867.3	849.4	839.4	829.5	825.5	825.5
27.5°	1188.4	1138.5	1050.8	977.0	925.2	891.3	871.3	857.4	847.4	839.4	835.4
30°	1292.0	1236.2	1118.6	1024.9	959.1	921.2	897.2	881.3	867.3	853.4	851.4
32.5°	1423.6	1343.9	1200.3	1078.7	998.9	951.1	923.2	903.2	885.3	871.3	867.3
35°	1557.2	1461.5	1286.1	1134.5	1036.8	979.0	945.1	923.2	905.2	889.3	887.3
37.5°	1694.8	1593.1	1379.8	1200.3	1080.7	1010.9	969.0	945.1	923.2	907.2	905.2
40°	1838.4	1718.7	1475.5	1268.1	1126.5	1042.8	994.9	965.0	941.1	927.2	925.2
42.5°	1973.9	1844.3	1579.2	1347.9	1180.4	1076.7	1020.9	989.0	959.1	945.1	943.1
45°	2103.6	1964.0	1682.8	1421.6	1234.2	1112.6	1046.8	1008.9	977.0	963.0	961.1
47.5°	2221.2	2081.6	1778.5	1501.4	1290.0	1152.5	1074.7	1028.8	993.0	979.0	979.0
50°	2326.9	2181.3	1872.3	1575.2	1341.9	1192.3	1098.6	1046.8	1010.9	996.9	994.9
52.5°	2426.6	2269.0	1954.0	1639.0	1391.7	1228.2	1122.6	1060.7	1022.9	1006.9	1004.9
55°	2506.3	2348.8	2021.8	1690.8	1425.6	1252.2	1138.5	1068.7	1026.9	1012.9	1010.9
57.5°	2576.1	2414.6	2069.7	1726.7	1447.6	1266.1	1146.5	1068.7	1024.9	1008.9	1006.9
59°	2606.0	2442.5	2085.6	1736.7	1451.5	1268.1	1144.5	1062.7	1016.9	1000.9	996.9
60°	2622.0	2454.5	2091.6	1738.7	1449.6	1264.1	1142.5	1056.8	1008.9	991.0	991.0
62.5°	2637.9	2464.4	2083.6	1722.7	1427.6	1242.2	1122.6	1032.8	979.0	959.1	959.1
65°	2604.0	2428.6	2037.8	1678.9	1383.8	1204.3	1084.7	993.0	933.1	913.2	913.2
67.5°	2504.3	2340.8	1954.0	1597.1	1312.0	1138.5	1022.9	929.2	873.3	851.4	845.4
70°	2334.8	2197.3	1822.4	1479.5	1214.3	1054.8	945.1	855.4	797.6	775.6	767.6
72.5°	2107.5	1972.0	1647.0	1335.9	1084.7	945.1	849.4	763.7	699.9	677.9	679.9
75°	1794.5	1698.8	1419.6	1154.5	935.1	805.5	725.8	654.0	600.2	582.2	584.2
77.5°	1455.5	1375.8	1150.5	941.1	763.7	664.0	596.2	538.3	502.5	492.5	486.5
80°	1114.6	1036.8	863.4	701.8	580.2	510.4	464.6	424.7	396.8	382.8	386.8
82.5°	747.7	699.9	572.2	464.6	394.8	344.9	329.0	303.1	293.1	285.1	291.1
85°	402.8	360.9	299.1	249.2	217.3	203.4	207.4	205.4	197.4	195.4	201.4
87.5°	131.6	113.7	87.7	73.8	75.8	67.8	67.8	63.8	57.8	55.8	59.8
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)