

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: P472205

Luminaire Tested: **CCW-VA-5-850-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472205
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-5-850-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7726.6 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

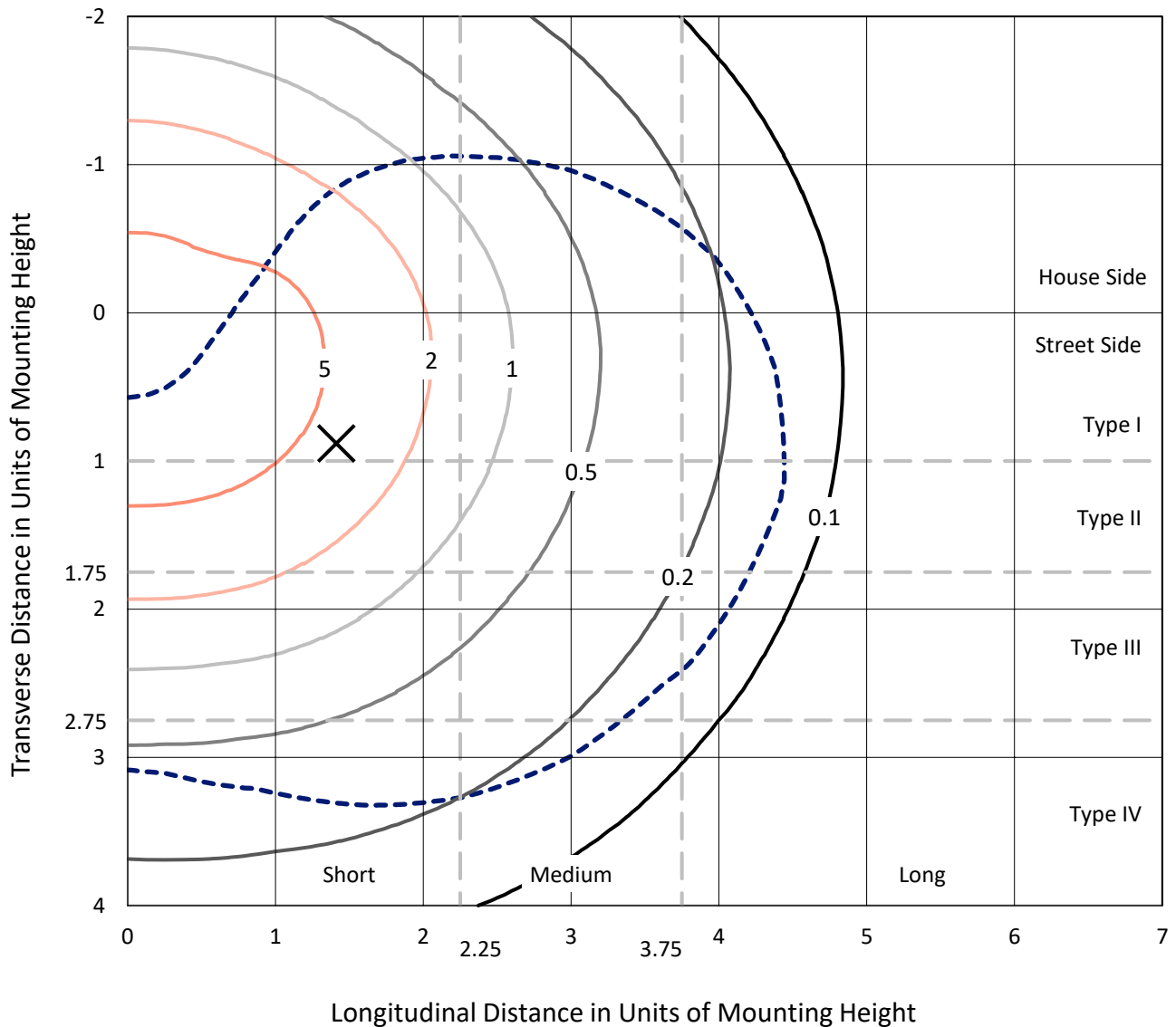
Input Watts (W): 74.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

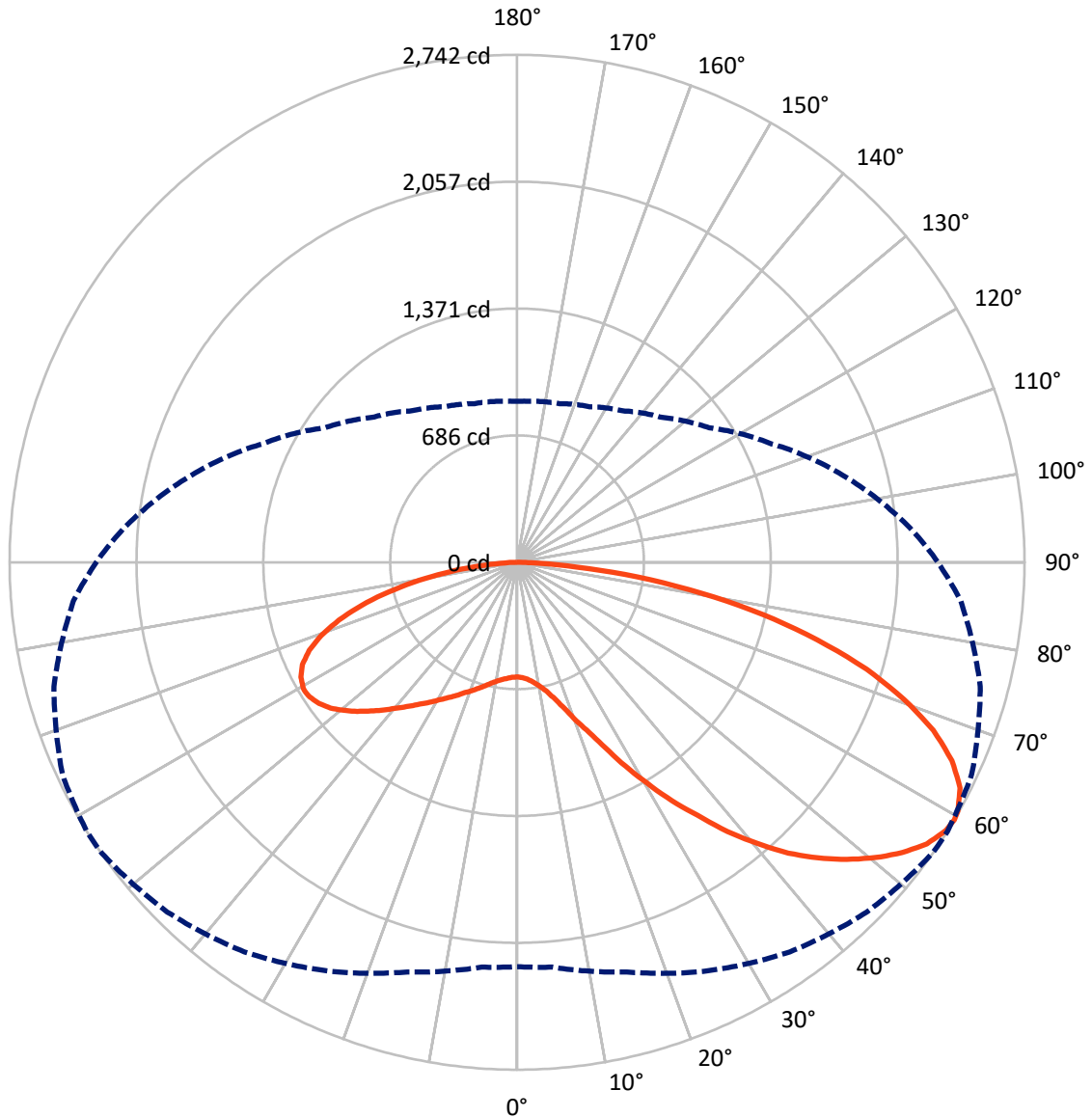
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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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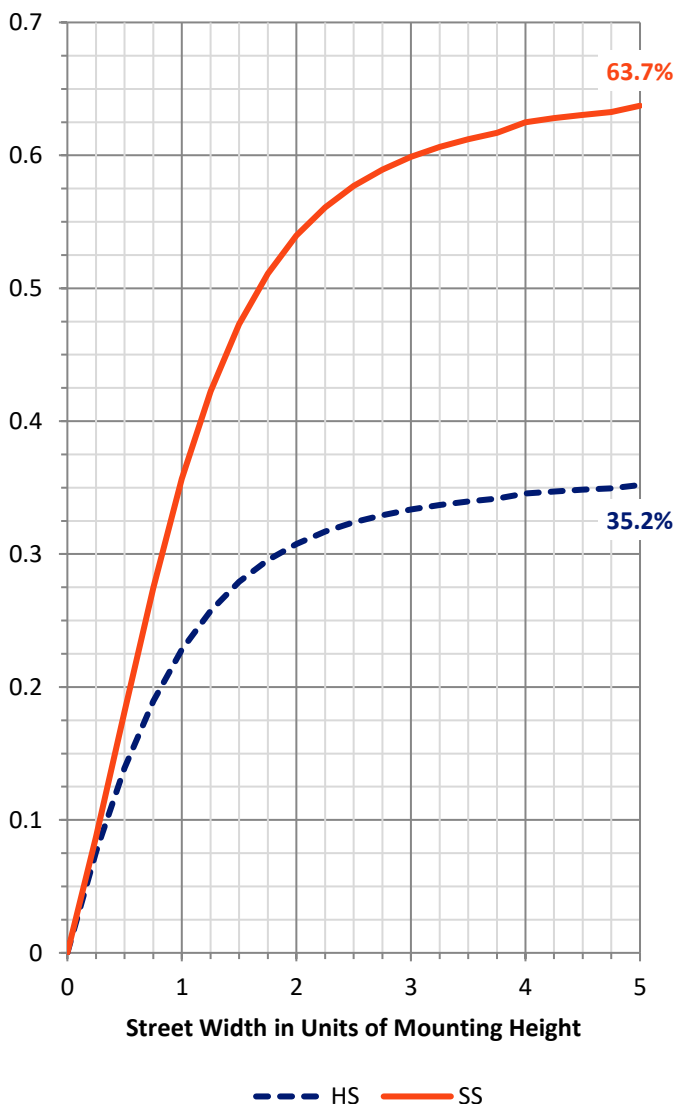
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2755.6	0.0	2755.6
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	4971.0	0.0	4971.0
	% Fixture	64.3	0.0	64.3
Total	Lumens	7726.6	0.0	7726.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	0.8
10°-20°	209.6	2.7
20°-30°	442.4	5.7
30°-40°	814.1	10.5
40°-50°	1269.0	16.4
50°-60°	1667.4	21.6
60°-70°	1747.2	22.6
70°-80°	1211.4	15.7
80°-90°	304.2	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°	7726.6	100.0
0°-180°	7726.6	100.0

Coefficient of Utilization

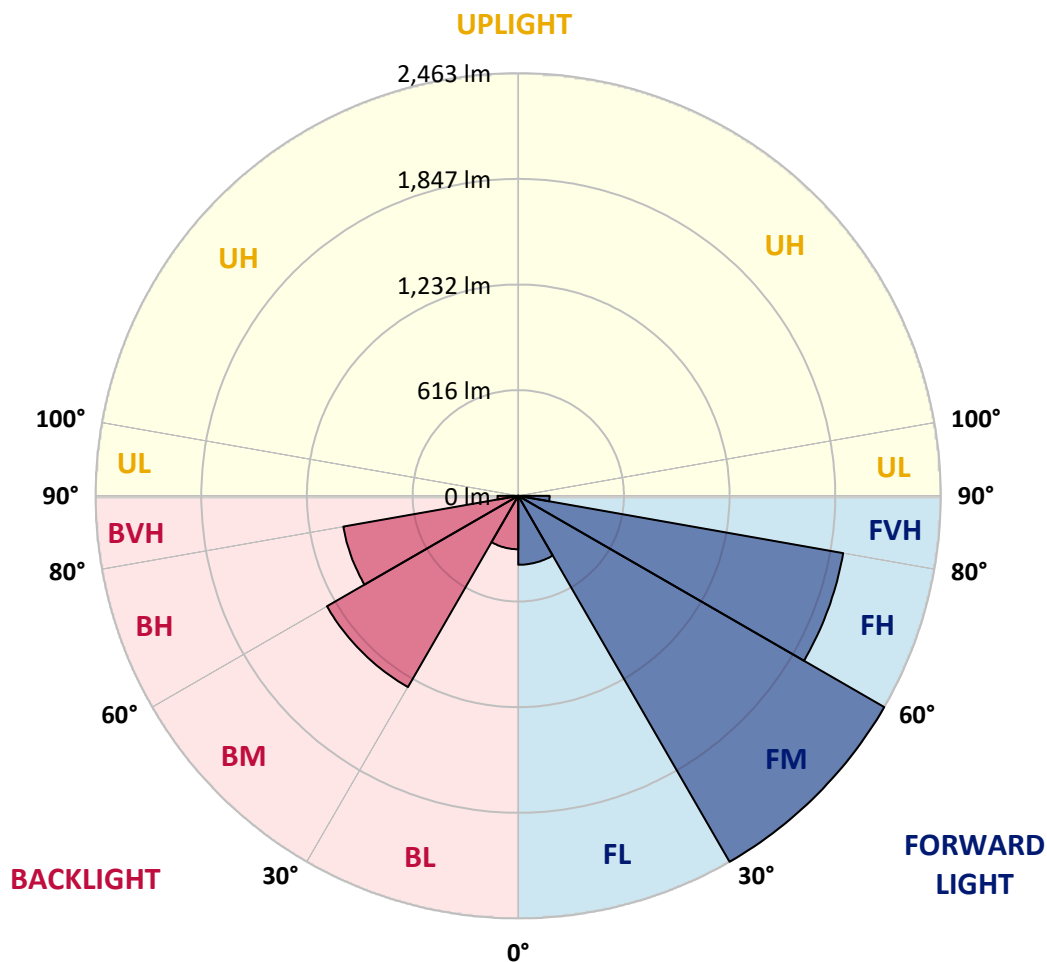


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.0	5.2			
FM (30°-60°)	2463.1	31.9			
FH (60°-80°)	1923.2	24.9			G2/5000
FVH (80°-90°)	182.8	2.4			G2/225
BL (0°-30°)	311.5	4.0	B1/500		
BM (30°-60°)	1287.4	16.7	B2/2500		
BH (60°-80°)	1035.4	13.4	B3/2500		G3/2500
BVH (80°-90°)	121.4	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°	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4
2.5°	628.1	628.1	628.1	626.4	626.4	626.4	624.6	624.6	624.6	622.9	621.1
5°	642.0	642.0	640.3	642.0	640.3	638.5	636.8	636.8	636.8	635.1	633.3
7.5°	661.2	662.9	661.2	662.9	661.2	659.4	655.9	655.9	654.2	650.7	647.2
10°	690.7	690.7	690.7	689.0	687.3	685.5	683.8	682.0	680.3	675.1	669.9
12.5°	727.3	727.3	727.3	723.8	723.8	720.3	718.6	716.8	713.4	706.4	699.4
15°	772.5	770.8	776.0	776.0	774.3	774.3	769.0	765.6	762.1	751.6	736.0
17.5°	833.4	831.7	836.9	840.4	840.4	842.1	833.4	829.9	817.8	803.8	783.0
20°	915.2	911.7	916.9	920.4	916.9	920.4	911.7	913.5	896.1	871.7	838.6
22.5°	1003.9	1003.9	1009.1	1009.1	1010.9	1014.4	1003.9	998.7	984.8	950.0	908.2
25°	1113.5	1122.2	1122.2	1122.2	1129.2	1130.9	1120.5	1111.8	1092.7	1045.7	988.3
27.5°	1247.5	1245.8	1244.0	1254.5	1254.5	1258.0	1251.0	1247.5	1224.9	1167.5	1080.5
30°	1390.2	1379.7	1386.7	1390.2	1397.1	1402.4	1395.4	1385.0	1357.1	1294.5	1186.6
32.5°	1520.7	1527.6	1538.1	1541.6	1552.0	1553.7	1536.3	1536.3	1508.5	1428.5	1317.1
35°	1668.6	1668.6	1696.4	1708.6	1708.6	1719.0	1692.9	1679.0	1659.9	1576.4	1435.4
37.5°	1797.3	1800.8	1823.4	1851.3	1854.7	1870.4	1851.3	1846.0	1811.2	1726.0	1569.4
40°	1917.4	1920.9	1948.7	1981.8	2000.9	2025.3	2006.1	1997.4	1960.9	1863.4	1703.4
42.5°	2011.3	2018.3	2053.1	2101.8	2133.1	2162.7	2154.0	2148.8	2098.3	1995.7	1826.9
45°	2082.7	2094.9	2143.6	2201.0	2244.5	2288.0	2289.7	2279.3	2232.3	2117.5	1947.0
47.5°	2140.1	2154.0	2207.9	2281.0	2347.1	2401.1	2411.5	2399.3	2355.8	2235.8	2054.8
50°	2187.1	2194.0	2254.9	2348.9	2430.7	2498.5	2519.4	2509.0	2470.7	2335.0	2148.8
52.5°	2211.4	2221.9	2291.5	2399.3	2498.5	2580.3	2611.6	2606.4	2561.1	2425.4	2232.3
55°	2223.6	2234.0	2315.8	2439.4	2550.7	2646.4	2684.7	2686.4	2642.9	2507.2	2310.6
57.5°	2209.7	2223.6	2312.3	2449.8	2573.3	2676.0	2735.1	2733.4	2698.6	2569.8	2376.7
59°	2185.3	2195.8	2291.5	2435.9	2569.8	2672.5	2740.4	2742.1	2710.8	2590.7	2406.3
60°	2157.5	2169.7	2267.1	2418.5	2555.9	2660.3	2731.7	2735.1	2709.0	2595.9	2418.5
62.5°	2061.8	2077.5	2185.3	2347.1	2496.8	2595.9	2681.2	2686.4	2672.5	2582.0	2427.2
65°	1927.8	1941.7	2058.3	2230.6	2387.2	2489.8	2569.8	2582.0	2580.3	2519.4	2392.4
67.5°	1764.3	1766.0	1875.6	2063.5	2227.1	2328.0	2404.6	2425.4	2441.1	2401.1	2289.7
70°	1567.7	1565.9	1672.1	1858.2	2021.8	2127.9	2204.5	2218.4	2258.4	2227.1	2136.6
72.5°	1324.1	1345.0	1444.1	1600.7	1762.5	1880.8	1948.7	1974.8	1997.4	2004.4	1929.6
75°	1094.4	1117.0	1195.3	1341.5	1480.7	1590.3	1663.4	1675.5	1717.3	1727.7	1658.1
77.5°	875.2	876.9	934.3	1050.9	1177.9	1268.4	1327.6	1358.9	1381.5	1402.4	1329.3
80°	614.2	622.9	662.9	746.4	845.6	941.3	990.0	1010.9	1026.5	1040.5	1016.1
82.5°	384.5	388.0	414.1	464.6	532.4	586.4	636.8	654.2	657.7	689.0	685.5
85°	182.7	184.4	201.8	226.2	255.8	299.3	318.4	318.4	342.8	365.4	365.4
87.5°	24.4	24.4	29.6	33.1	41.8	53.9	74.8	76.6	90.5	100.9	109.6
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°	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4
2.5°	621.1	621.1	621.1	621.1	621.1	619.4	621.1	621.1	621.1	621.1	621.1
5°	633.3	631.6	629.8	628.1	628.1	626.4	626.4	626.4	626.4	626.4	626.4
7.5°	645.5	643.8	642.0	638.5	636.8	635.1	635.1	633.3	633.3	633.3	633.3
10°	666.4	664.6	657.7	652.5	649.0	647.2	645.5	643.8	642.0	642.0	642.0
12.5°	694.2	690.7	678.6	671.6	666.4	662.9	659.4	657.7	655.9	654.2	654.2
15°	729.0	720.3	704.7	694.2	687.3	682.0	676.8	673.3	671.6	669.9	669.9
17.5°	770.8	760.3	739.5	720.3	708.1	699.4	692.5	687.3	685.5	685.5	685.5
20°	823.0	805.6	776.0	749.9	730.8	718.6	708.1	702.9	701.2	699.4	697.7
22.5°	883.9	861.3	817.8	777.7	753.4	736.0	723.8	716.8	711.6	709.9	709.9
25°	953.5	920.4	863.0	814.3	781.2	756.9	741.2	732.5	723.8	720.3	720.3
27.5°	1037.0	993.5	916.9	852.6	807.3	777.7	760.3	748.2	739.5	732.5	729.0
30°	1127.5	1078.7	976.1	894.3	836.9	803.8	783.0	769.0	756.9	744.7	742.9
32.5°	1242.3	1172.7	1047.4	941.3	871.7	829.9	805.6	788.2	772.5	760.3	756.9
35°	1358.9	1275.4	1122.2	990.0	904.8	854.3	824.7	805.6	789.9	776.0	774.3
37.5°	1478.9	1390.2	1204.0	1047.4	943.0	882.1	845.6	824.7	805.6	791.7	789.9
40°	1604.2	1499.8	1287.5	1106.6	983.0	910.0	868.2	842.1	821.2	809.1	807.3
42.5°	1722.5	1609.4	1378.0	1176.2	1030.0	939.6	890.8	863.0	836.9	824.7	823.0
45°	1835.6	1713.8	1468.5	1240.6	1077.0	970.9	913.5	880.4	852.6	840.4	838.6
47.5°	1938.3	1816.5	1552.0	1310.2	1125.7	1005.7	937.8	897.8	866.5	854.3	854.3
50°	2030.5	1903.5	1633.8	1374.5	1171.0	1040.5	958.7	913.5	882.1	870.0	868.2
52.5°	2117.5	1980.0	1705.1	1430.2	1214.5	1071.8	979.6	925.6	892.6	878.7	876.9
55°	2187.1	2049.6	1764.3	1475.4	1244.0	1092.7	993.5	932.6	896.1	883.9	882.1
57.5°	2248.0	2107.0	1806.0	1506.8	1263.2	1104.8	1000.4	932.6	894.3	880.4	878.7
59°	2274.1	2131.4	1819.9	1515.5	1266.7	1106.6	998.7	927.4	887.4	873.4	870.0
60°	2288.0	2141.8	1825.2	1517.2	1264.9	1103.1	997.0	922.2	880.4	864.7	864.7
62.5°	2301.9	2150.5	1818.2	1503.3	1245.8	1084.0	979.6	901.3	854.3	836.9	836.9
65°	2272.3	2119.2	1778.2	1465.0	1207.5	1050.9	946.5	866.5	814.3	796.9	796.9
67.5°	2185.3	2042.7	1705.1	1393.7	1144.9	993.5	892.6	810.8	762.1	742.9	737.7
70°	2037.4	1917.4	1590.3	1291.0	1059.6	920.4	824.7	746.4	696.0	676.8	669.9
72.5°	1839.1	1720.8	1437.2	1165.7	946.5	824.7	741.2	666.4	610.7	591.6	593.3
75°	1565.9	1482.4	1238.8	1007.4	816.0	702.9	633.3	570.7	523.7	508.1	509.8
77.5°	1270.1	1200.5	1003.9	821.2	666.4	579.4	520.2	469.8	438.5	429.8	424.5
80°	972.6	904.8	753.4	612.4	506.3	445.4	405.4	370.6	346.2	334.1	337.5
82.5°	652.5	610.7	499.4	405.4	344.5	301.0	287.1	264.5	255.8	248.8	254.0
85°	351.5	314.9	261.0	217.5	189.7	177.5	181.0	179.2	172.3	170.5	175.7
87.5°	114.8	99.2	76.6	64.4	66.1	59.2	59.2	55.7	50.5	48.7	52.2
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)