

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: P472292

Luminaire Tested: **CCW-VA-4-830-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472292
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-830-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5871.5 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

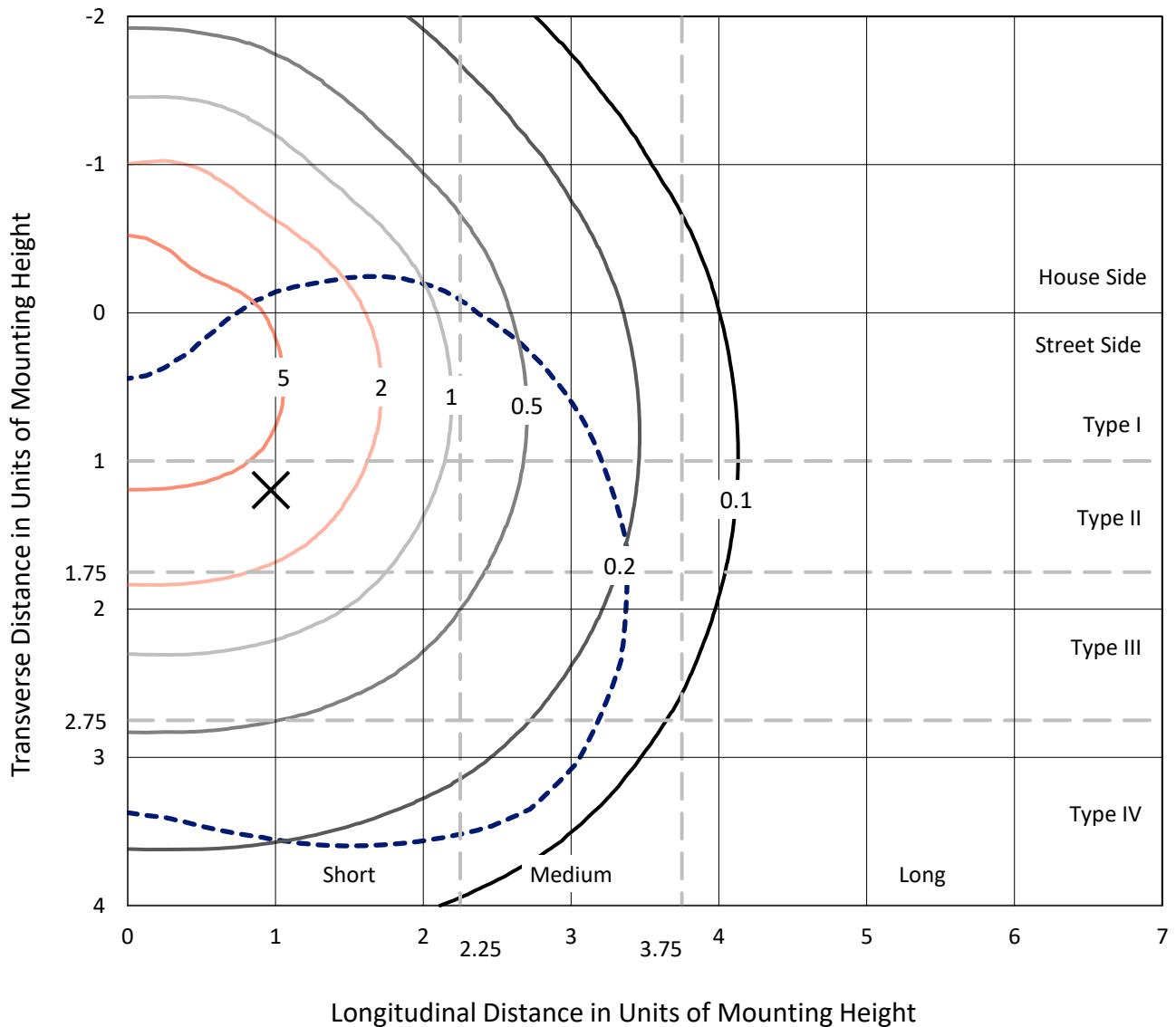
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

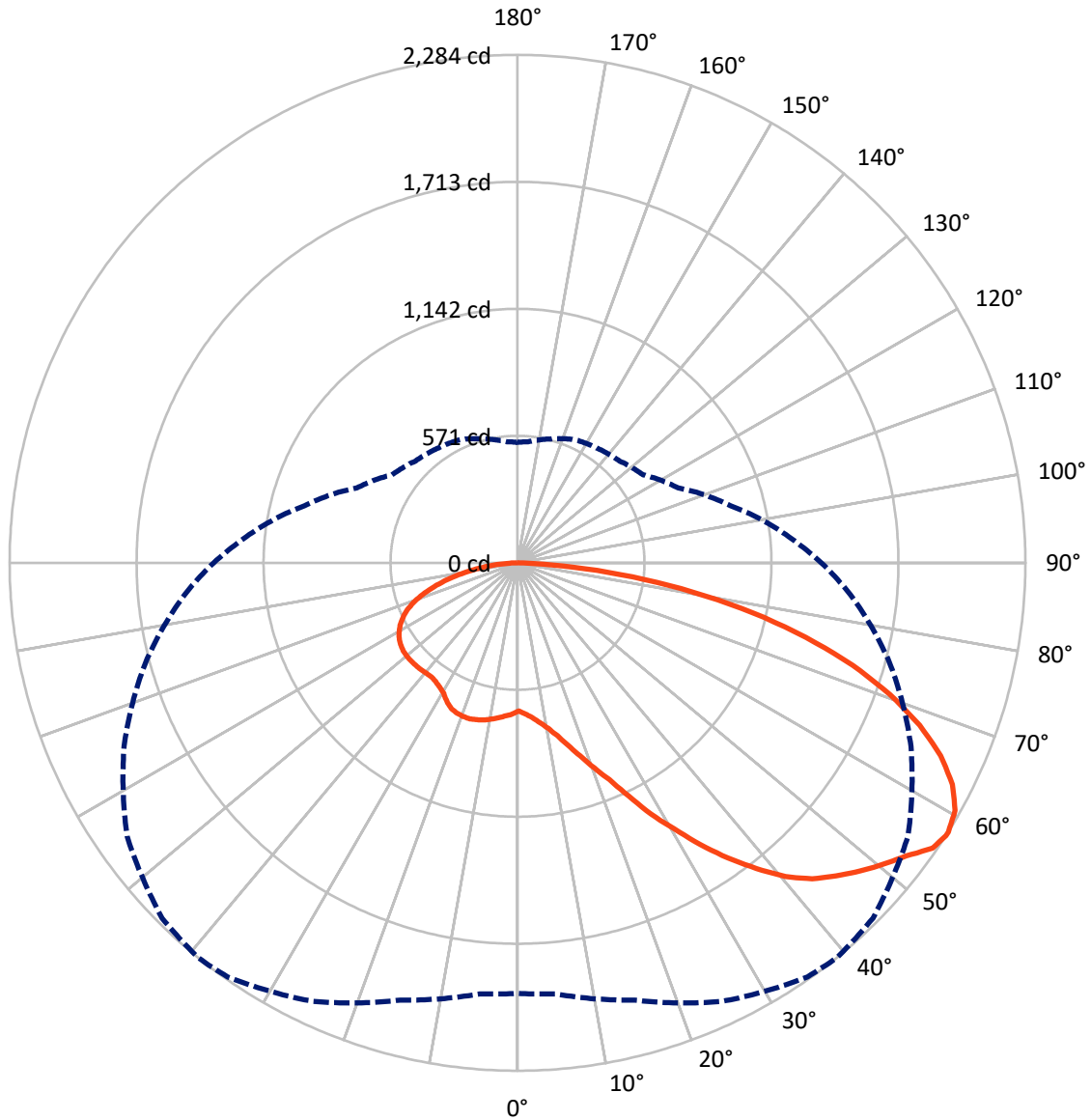
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1801.6	0.0	1801.6
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	4069.9	0.0	4069.9
	% Fixture	69.3	0.0	69.3
Total	Lumens	5871.5	0.0	5871.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.1
10°-20°	224.8	3.8
20°-30°	434.3	7.4
30°-40°	702.5	12.0
40°-50°	986.9	16.8
50°-60°	1219.2	20.8
60°-70°	1211.7	20.6
70°-80°	819.9	14.0
80°-90°	204.6	3.5
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°	5871.5	100.0
0°-180°	5871.5	100.0

Coefficient of Utilization

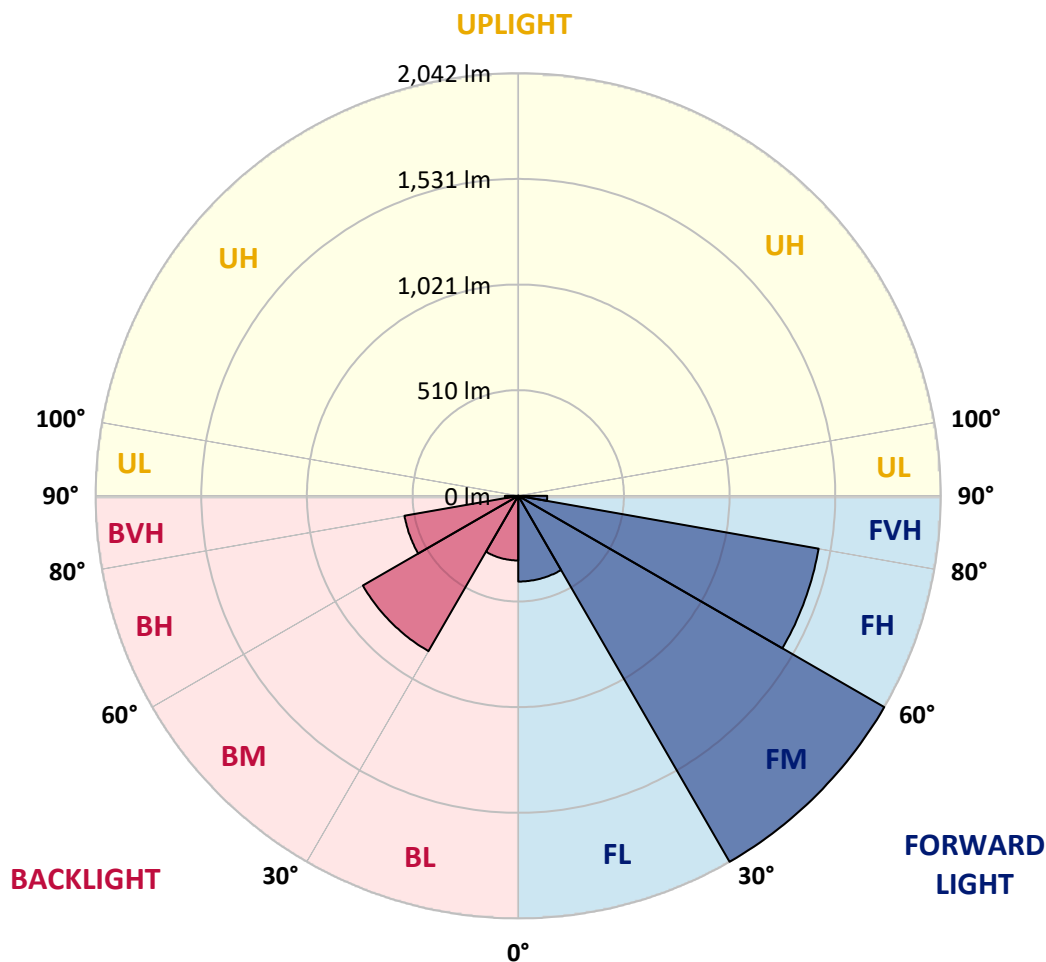


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.3	7.1			
FM (30°-60°)	2041.8	34.8			
FH (60°-80°)	1473.8	25.1			G1/1800
FVH (80°-90°)	140.0	2.4			G2/225
BL (0°-30°)	312.3	5.3	B1/500		
BM (30°-60°)	866.8	14.8	B1/1000		
BH (60°-80°)	557.9	9.5	B2/1000		G2/1000
BVH (80°-90°)	64.6	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8
2.5°	685.6	684.7	683.8	683.8	682.0	680.2	679.3	677.5	678.4	680.2	681.1
5°	705.4	703.6	703.6	701.8	699.1	699.1	696.4	692.8	691.9	691.0	691.0
7.5°	736.0	733.3	734.2	731.5	728.8	725.2	720.7	716.2	714.4	708.1	702.7
10°	771.1	770.2	767.5	763.0	760.3	756.7	752.2	744.1	737.8	730.6	726.1
12.5°	812.4	810.6	811.5	808.0	803.5	797.2	790.0	781.9	770.2	756.7	747.7
15°	866.4	862.8	862.8	861.9	852.9	851.1	843.9	825.9	809.7	791.8	771.1
17.5°	932.1	931.2	927.6	924.0	918.6	912.3	905.1	885.3	861.0	833.1	805.3
20°	1002.3	1000.5	1003.2	997.8	987.0	984.3	972.6	950.1	920.4	888.0	845.7
22.5°	1078.8	1080.6	1080.6	1078.8	1069.8	1059.0	1049.1	1019.4	985.2	945.6	896.1
25°	1171.4	1172.3	1177.7	1183.1	1177.7	1160.6	1147.1	1101.3	1055.4	1005.0	946.5
27.5°	1275.8	1269.5	1284.8	1294.7	1284.8	1280.3	1250.6	1200.2	1137.2	1074.3	1001.4
30°	1376.6	1376.6	1389.2	1403.6	1397.3	1386.5	1362.2	1297.4	1225.4	1145.3	1057.2
32.5°	1470.1	1480.9	1486.3	1519.6	1516.0	1510.6	1482.7	1397.3	1307.3	1216.4	1111.2
35°	1580.8	1577.2	1599.7	1620.4	1636.6	1629.4	1608.7	1522.3	1404.5	1291.1	1170.5
37.5°	1664.5	1671.7	1691.5	1728.4	1740.1	1743.7	1717.6	1628.5	1494.4	1371.2	1236.2
40°	1728.4	1733.8	1771.6	1818.3	1842.6	1855.2	1829.1	1721.2	1579.0	1435.1	1287.5
42.5°	1779.6	1783.2	1822.8	1889.4	1929.9	1942.5	1919.1	1804.8	1651.0	1486.3	1329.8
45°	1813.8	1820.1	1866.9	1935.3	1998.3	2007.3	1995.6	1878.6	1714.9	1534.9	1360.4
47.5°	1843.5	1850.7	1902.9	1989.3	2059.5	2071.2	2060.4	1943.4	1776.1	1579.0	1386.5
50°	1883.1	1891.2	1943.4	2039.7	2117.0	2130.5	2126.9	2011.8	1833.6	1628.5	1413.5
52.5°	1920.9	1927.2	1989.3	2096.4	2180.0	2189.0	2186.3	2075.7	1892.1	1681.6	1447.7
55°	1950.6	1957.8	2031.6	2163.8	2253.8	2263.7	2244.8	2125.1	1938.0	1720.3	1480.0
57°	1935.3	1945.2	2035.2	2175.5	2272.7	2283.5	2259.2	2143.1	1951.5	1731.1	1491.7
57.5°	1930.8	1938.0	2031.6	2174.6	2273.6	2283.5	2259.2	2142.2	1950.6	1730.2	1491.7
60°	1865.1	1882.2	1987.5	2142.2	2247.5	2260.1	2236.7	2106.2	1928.1	1705.0	1467.4
62.5°	1777.0	1800.3	1911.0	2065.8	2184.5	2193.5	2170.1	2046.0	1877.7	1651.9	1417.1
65°	1650.1	1686.1	1802.1	1951.5	2080.2	2091.0	2067.6	1945.2	1794.0	1570.9	1341.5
67.5°	1525.9	1547.5	1671.7	1813.8	1933.5	1949.7	1929.9	1821.0	1678.9	1462.9	1240.7
70°	1384.7	1400.0	1502.5	1642.0	1762.6	1776.1	1759.0	1657.3	1523.2	1328.9	1122.9
72.5°	1214.6	1230.8	1318.1	1446.8	1553.8	1575.4	1563.7	1458.4	1337.0	1168.7	991.5
75°	1023.0	1041.0	1119.3	1221.8	1326.2	1338.8	1325.3	1247.9	1138.1	986.1	831.3
77.5°	829.5	841.2	897.9	975.3	1056.3	1083.3	1079.7	1024.8	914.1	793.6	667.6
80°	620.8	622.6	652.3	716.2	781.0	800.8	805.3	755.8	682.9	592.0	500.2
82.5°	392.3	398.6	414.8	462.5	493.9	520.9	527.2	498.4	452.6	395.9	339.2
85°	182.6	177.2	189.8	206.0	251.0	251.0	259.1	243.8	230.3	211.4	175.4
87.5°	15.3	14.4	14.4	15.3	24.3	26.1	41.4	45.9	49.5	49.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8
2.5°	679.3	678.4	675.7	675.7	677.5	680.2	681.1	682.0	682.9	683.8	683.8
5°	690.1	689.2	687.4	685.6	687.4	688.3	691.0	692.8	692.8	694.6	693.7
7.5°	700.0	700.9	699.1	698.2	698.2	700.0	703.6	706.3	708.1	709.0	710.8
10°	722.5	717.1	709.9	706.3	706.3	709.9	713.5	717.1	720.7	722.5	722.5
12.5°	742.3	736.0	722.5	717.1	716.2	719.8	724.3	729.7	732.4	735.1	735.1
15°	760.3	754.9	738.7	726.1	722.5	725.2	730.6	736.9	741.4	744.1	744.1
17.5°	794.5	778.3	756.7	736.0	728.8	729.7	736.0	742.3	747.7	749.5	748.6
20°	826.8	806.2	773.8	744.1	732.4	728.8	735.1	743.2	747.7	750.4	750.4
22.5°	863.7	841.2	790.9	752.2	730.6	725.2	730.6	737.8	743.2	745.0	746.8
25°	915.9	876.3	809.7	758.5	727.9	717.1	720.7	727.9	734.2	735.1	734.2
27.5°	962.7	917.7	834.9	764.8	721.6	701.8	698.2	703.6	713.5	719.8	721.6
30°	1003.2	961.8	861.0	770.2	709.9	676.6	672.1	673.9	680.2	697.3	698.2
32.5°	1063.5	999.6	887.1	774.7	696.4	663.1	656.8	655.0	656.8	665.8	665.8
35°	1104.9	1041.9	913.2	782.8	686.5	652.3	646.0	643.3	641.5	632.5	629.8
37.5°	1158.8	1088.7	938.4	790.0	682.0	647.8	638.8	640.6	631.6	606.4	599.2
40°	1218.2	1131.0	963.6	797.2	683.8	648.7	640.6	639.7	624.4	589.3	582.1
42.5°	1247.0	1166.9	989.7	807.1	691.0	651.4	644.2	641.5	622.6	583.0	573.1
45°	1274.9	1193.0	1008.6	815.1	698.2	655.0	646.0	643.3	621.7	577.6	570.4
47.5°	1300.1	1209.2	1017.6	819.6	703.6	657.7	646.9	642.4	617.2	574.9	567.7
50°	1311.8	1218.2	1017.6	819.6	705.4	660.4	645.1	638.8	610.0	570.4	564.1
52.5°	1329.8	1223.6	1009.5	814.2	702.7	660.4	641.5	631.6	601.0	564.1	558.7
55°	1356.8	1233.5	998.7	806.2	696.4	655.0	635.2	621.7	588.4	555.1	550.6
57°	1365.8	1237.1	991.5	796.3	689.2	647.8	628.0	610.9	576.7	546.1	541.6
57.5°	1364.0	1235.3	988.8	793.6	686.5	645.1	626.2	608.2	574.0	544.3	539.8
60°	1339.7	1218.2	971.7	776.5	672.1	630.7	610.0	590.2	555.1	529.0	525.4
62.5°	1300.1	1179.5	941.1	754.0	652.3	610.9	589.3	566.8	531.7	509.2	507.4
65°	1232.6	1114.8	897.0	721.6	627.1	584.8	561.4	537.1	506.5	486.7	481.4
67.5°	1120.2	1028.4	834.9	676.6	588.4	552.4	527.2	502.0	474.2	457.1	453.5
70°	1026.6	933.9	755.8	619.9	541.6	507.4	484.1	459.8	435.5	420.2	419.3
72.5°	907.8	818.7	656.8	549.7	482.3	449.0	431.0	409.4	390.5	377.0	377.0
75°	763.9	693.7	554.2	466.1	411.2	386.9	371.6	354.5	338.3	329.3	331.1
77.5°	607.3	554.2	452.6	377.0	336.5	320.3	305.9	296.0	286.1	278.0	278.9
80°	448.1	408.5	332.9	277.1	257.3	242.9	240.2	233.9	228.5	225.8	221.3
82.5°	306.8	271.7	221.3	189.8	175.4	170.9	171.8	171.8	172.7	172.7	170.9
85°	159.3	145.8	112.5	101.7	99.9	104.4	109.8	113.4	112.5	112.5	109.8
87.5°	45.9	41.4	36.0	32.4	34.2	36.9	32.4	31.5	30.6	29.7	29.7
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)