

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: P472288

Luminaire Tested: **CCW-VA-4-827-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472288
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-827-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5662.4 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

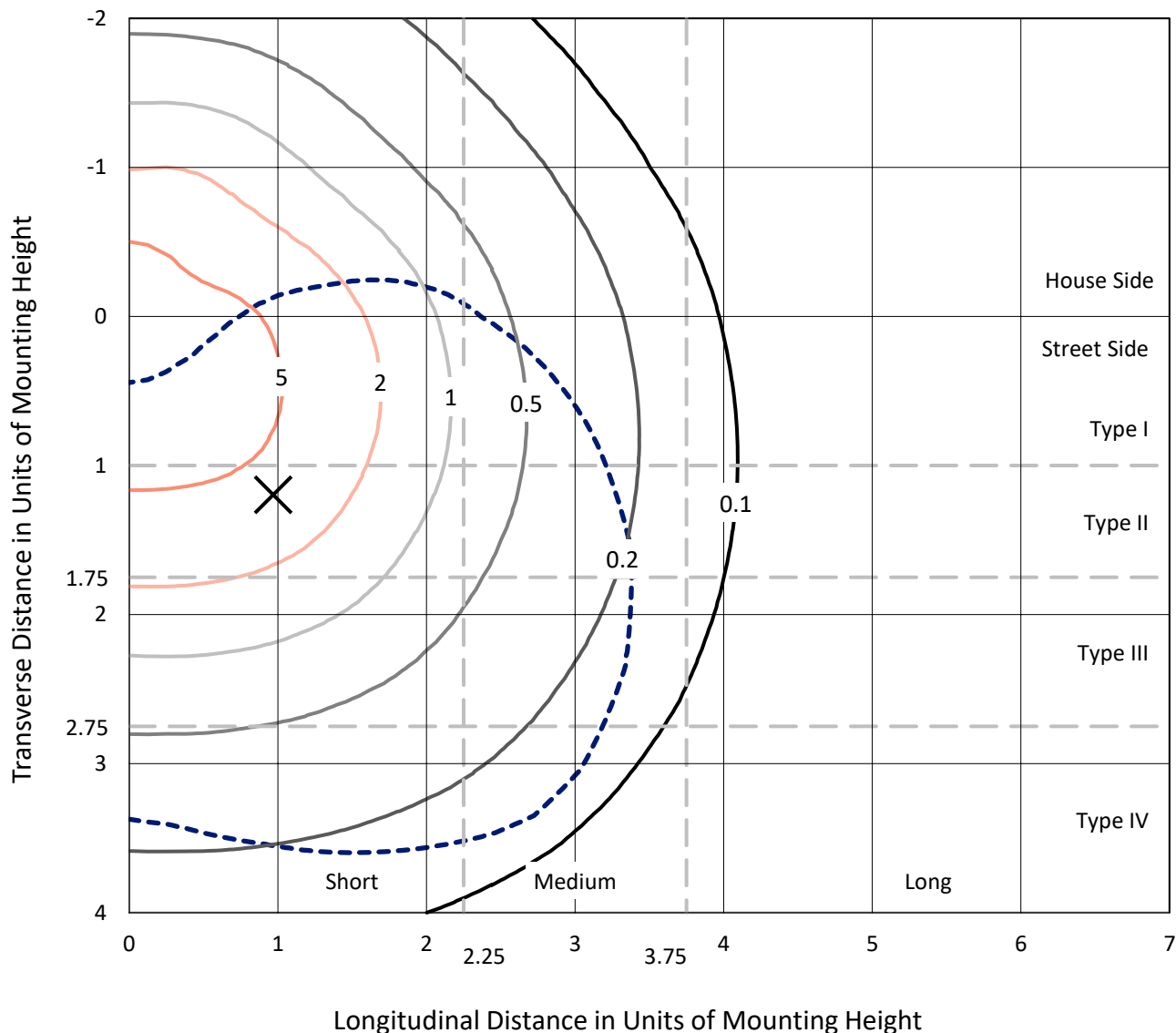
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472288
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Iso-Footcandle Lines of Horizontal Illumination

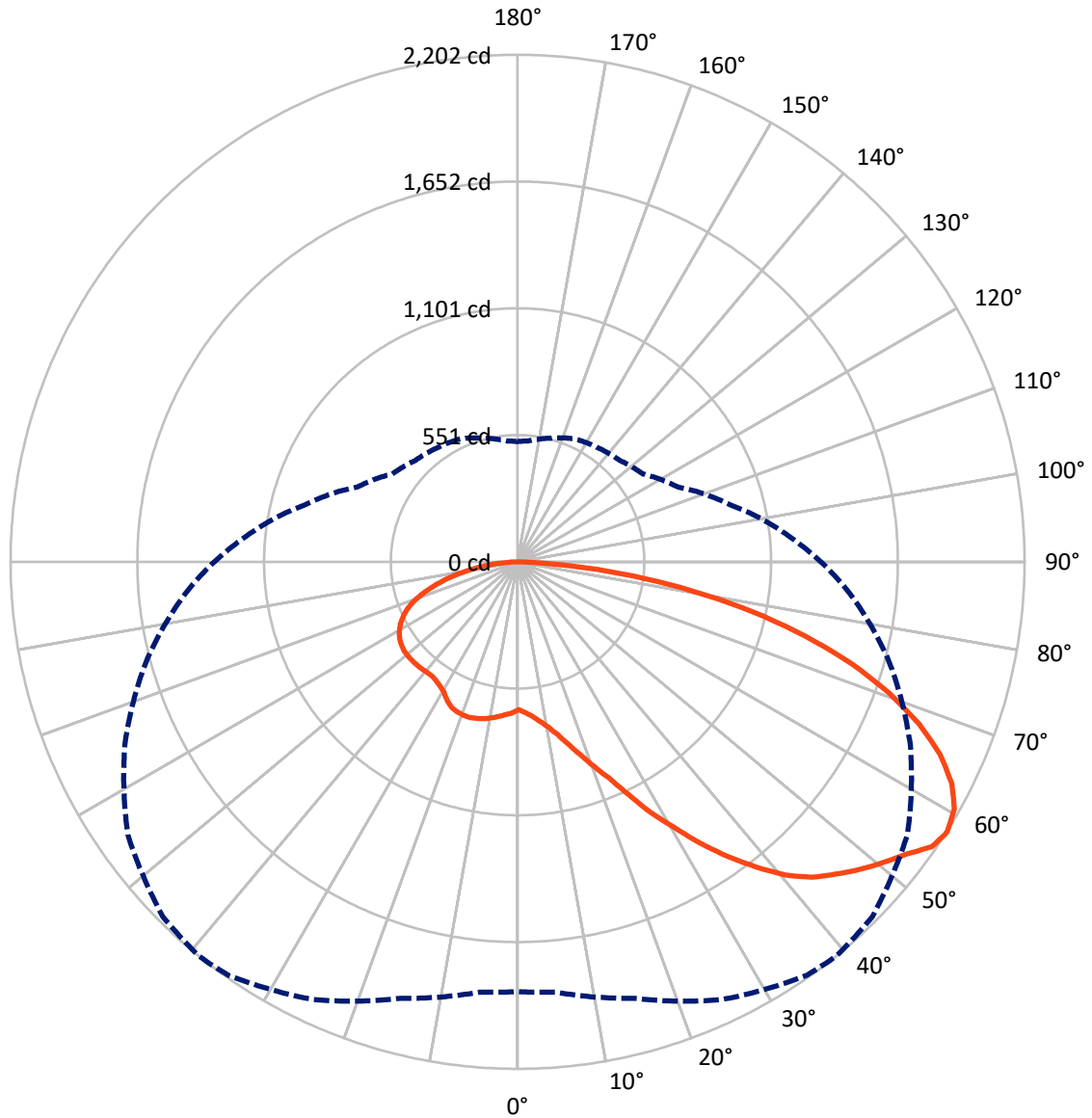
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 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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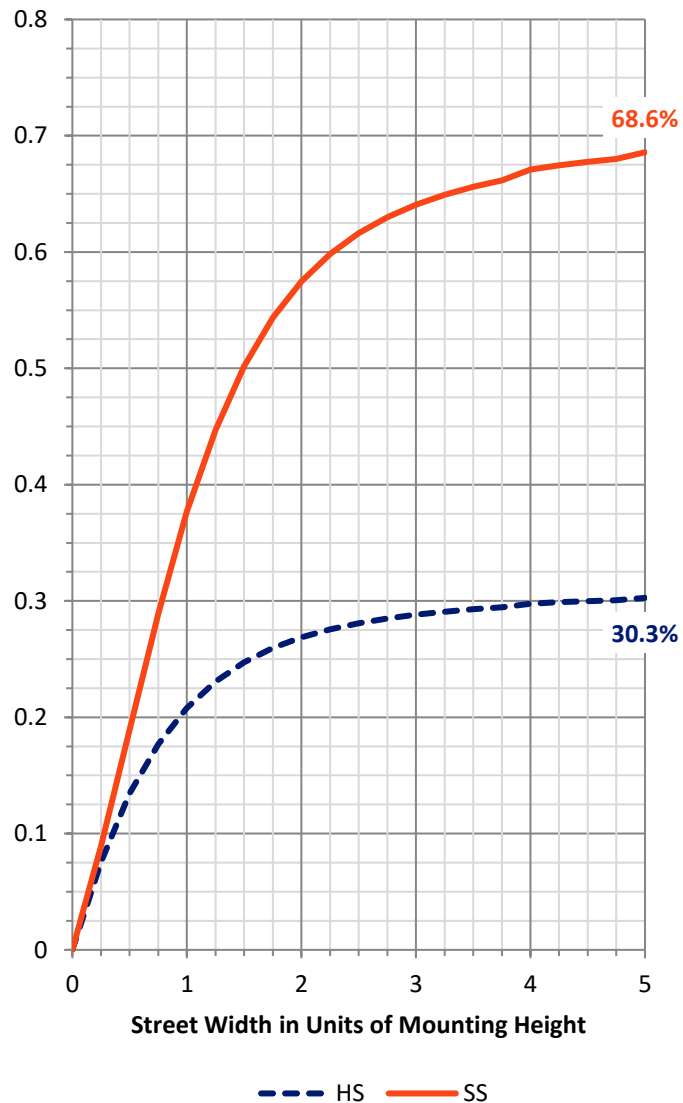
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1737.4	0.0	1737.4
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	3925.0	0.0	3925.0
	% Fixture	69.3	0.0	69.3
Total	Lumens	5662.4	0.0	5662.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.1
10°-20°	216.8	3.8
20°-30°	418.8	7.4
30°-40°	677.5	12.0
40°-50°	951.8	16.8
50°-60°	1175.8	20.8
60°-70°	1168.6	20.6
70°-80°	790.7	14.0
80°-90°	197.3	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°	5662.4	100.0
0°-180°	5662.4	100.0

Coefficient of Utilization

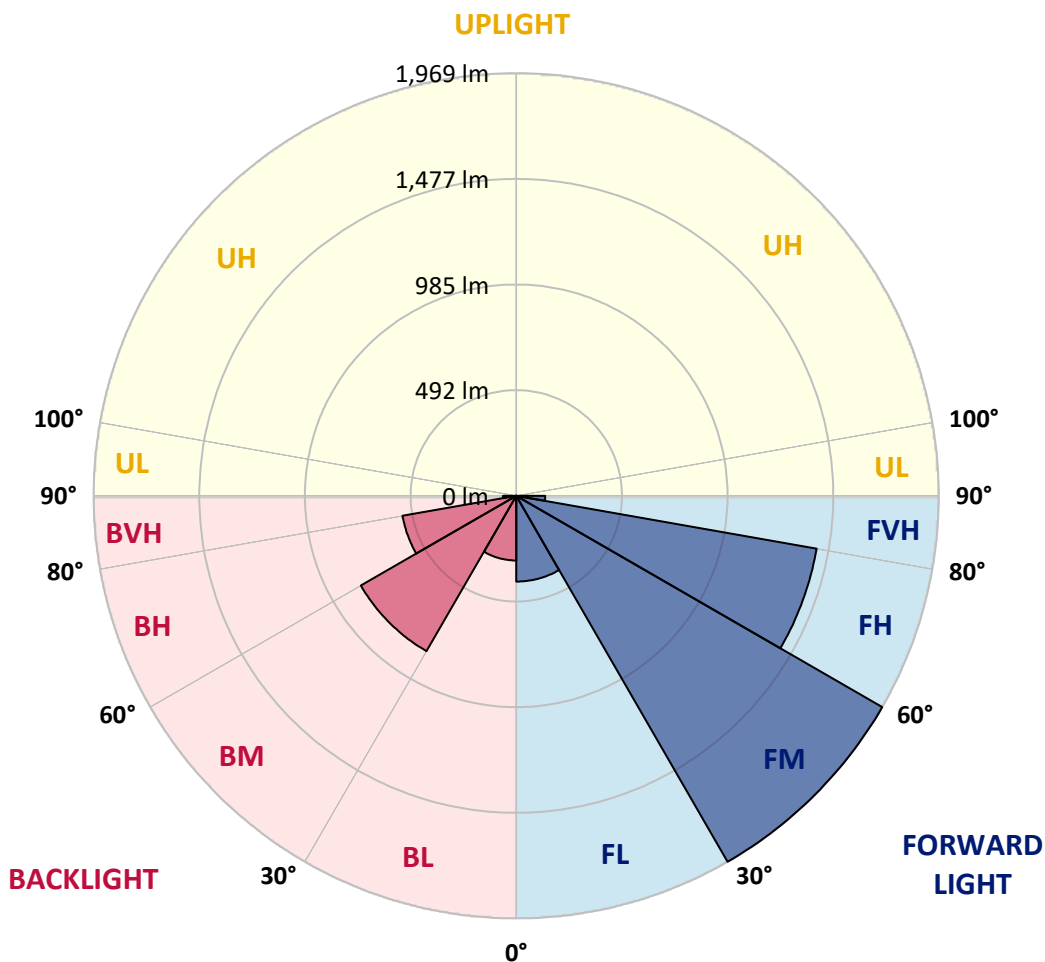


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 CATALOG NUMBER: CCW-VA-4-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.5	7.1			
FM (30°-60°)	1969.1	34.8			
FH (60°-80°)	1421.3	25.1			G1/1800
FVH (80°-90°)	135.0	2.4			G2/225
BL (0°-30°)	301.1	5.3	B1/500		
BM (30°-60°)	835.9	14.8	B1/1000		
BH (60°-80°)	538.1	9.5	B2/1000		G2/1000
BVH (80°-90°)	62.3	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°	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1
2.5°	661.2	660.3	659.4	659.4	657.7	656.0	655.1	653.4	654.2	656.0	656.8
5°	680.3	678.5	678.5	676.8	674.2	674.2	671.6	668.1	667.2	666.4	666.4
7.5°	709.8	707.2	708.0	705.4	702.8	699.4	695.0	690.7	688.9	682.9	677.7
10°	743.6	742.7	740.1	735.8	733.2	729.7	725.4	717.6	711.5	704.6	700.2
12.5°	783.5	781.8	782.7	779.2	774.8	768.8	761.8	754.0	742.7	729.7	721.0
15°	835.6	832.1	832.1	831.2	822.6	820.8	813.9	796.5	780.9	763.6	743.6
17.5°	898.9	898.1	894.6	891.1	885.9	879.8	872.9	853.8	830.4	803.5	776.6
20°	966.6	964.9	967.5	962.3	951.8	949.2	938.0	916.3	887.6	856.4	815.6
22.5°	1040.4	1042.1	1042.1	1040.4	1031.7	1021.3	1011.7	983.1	950.1	911.9	864.2
25°	1129.7	1130.6	1135.8	1141.0	1135.8	1119.3	1106.3	1062.0	1017.8	969.2	912.8
27.5°	1230.4	1224.3	1239.1	1248.6	1239.1	1234.7	1206.1	1157.5	1096.8	1036.0	965.7
30°	1327.6	1327.6	1339.7	1353.6	1347.5	1337.1	1313.7	1251.2	1181.8	1104.6	1019.5
32.5°	1417.8	1428.2	1433.4	1465.5	1462.0	1456.8	1429.9	1347.5	1260.7	1173.1	1071.6
35°	1524.5	1521.1	1542.7	1562.7	1578.3	1571.4	1551.4	1468.1	1354.5	1245.1	1128.9
37.5°	1605.2	1612.2	1631.2	1666.8	1678.1	1681.6	1656.4	1570.5	1441.2	1322.4	1192.2
40°	1666.8	1672.0	1708.5	1753.6	1777.0	1789.2	1764.0	1659.9	1522.8	1384.0	1241.7
42.5°	1716.3	1719.8	1757.9	1822.1	1861.2	1873.3	1850.8	1740.6	1592.2	1433.4	1282.4
45°	1749.3	1755.3	1800.4	1866.4	1927.1	1935.8	1924.5	1811.7	1653.8	1480.3	1311.9
47.5°	1777.9	1784.8	1835.2	1918.4	1986.1	1997.4	1987.0	1874.2	1712.8	1522.8	1337.1
50°	1816.1	1823.9	1874.2	1967.0	2041.7	2054.7	2051.2	1940.1	1768.3	1570.5	1363.1
52.5°	1852.5	1858.6	1918.4	2021.7	2102.4	2111.1	2108.5	2001.7	1824.7	1621.7	1396.1
55°	1881.1	1888.1	1959.2	2086.8	2173.5	2183.1	2164.9	2049.5	1869.0	1659.0	1427.3
57°	1866.4	1875.9	1962.7	2098.1	2191.8	2202.2	2178.8	2066.8	1882.0	1669.4	1438.6
57.5°	1862.1	1869.0	1959.2	2097.2	2192.6	2202.2	2178.8	2066.0	1881.1	1668.6	1438.6
60°	1798.7	1815.2	1916.7	2066.0	2167.5	2179.6	2157.1	2031.2	1859.4	1644.3	1415.2
62.5°	1713.7	1736.2	1843.0	1992.2	2106.7	2115.4	2092.9	1973.1	1810.9	1593.1	1366.6
65°	1591.3	1626.0	1738.0	1882.0	2006.1	2016.5	1993.9	1875.9	1730.2	1515.0	1293.7
67.5°	1471.6	1492.4	1612.2	1749.3	1864.7	1880.3	1861.2	1756.2	1619.1	1410.9	1196.5
70°	1335.4	1350.1	1449.0	1583.5	1699.8	1712.8	1696.3	1598.3	1469.0	1281.6	1082.9
72.5°	1171.4	1187.0	1271.2	1395.2	1498.5	1519.3	1508.0	1406.5	1289.4	1127.1	956.2
75°	986.6	1003.9	1079.4	1178.3	1279.0	1291.1	1278.1	1203.5	1097.6	951.0	801.7
77.5°	800.0	811.3	865.9	940.6	1018.7	1044.7	1041.2	988.3	881.6	765.3	643.8
80°	598.7	600.4	629.1	690.7	753.1	772.2	776.6	728.9	658.6	570.9	482.4
82.5°	378.3	384.4	400.0	446.0	476.4	502.4	508.5	480.7	436.4	381.8	327.1
85°	176.1	170.9	183.1	198.7	242.1	242.1	249.9	235.1	222.1	203.9	169.2
87.5°	14.8	13.9	13.9	14.8	23.4	25.2	39.9	44.3	47.7	47.7	50.3
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°	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1
2.5°	655.1	654.2	651.6	651.6	653.4	656.0	656.8	657.7	658.6	659.4	659.4
5°	665.5	664.6	662.9	661.2	662.9	663.8	666.4	668.1	668.1	669.9	669.0
7.5°	675.1	675.9	674.2	673.3	673.3	675.1	678.5	681.1	682.9	683.7	685.5
10°	696.8	691.5	684.6	681.1	681.1	684.6	688.1	691.5	695.0	696.8	696.8
12.5°	715.8	709.8	696.8	691.5	690.7	694.1	698.5	703.7	706.3	708.9	708.9
15°	733.2	728.0	712.4	700.2	696.8	699.4	704.6	710.6	715.0	717.6	717.6
17.5°	766.2	750.5	729.7	709.8	702.8	703.7	709.8	715.8	721.0	722.8	721.9
20°	797.4	777.4	746.2	717.6	706.3	702.8	708.9	716.7	721.0	723.6	723.6
22.5°	833.0	811.3	762.7	725.4	704.6	699.4	704.6	711.5	716.7	718.4	720.2
25°	883.3	845.1	780.9	731.5	702.0	691.5	695.0	702.0	708.0	708.9	708.0
27.5°	928.4	885.0	805.2	737.5	695.9	676.8	673.3	678.5	688.1	694.1	695.9
30°	967.5	927.6	830.4	742.7	684.6	652.5	648.2	649.9	656.0	672.5	673.3
32.5°	1025.6	964.0	855.5	747.1	671.6	639.5	633.4	631.7	633.4	642.1	642.1
35°	1065.5	1004.8	880.7	754.9	662.0	629.1	623.0	620.4	618.7	610.0	607.4
37.5°	1117.6	1049.9	905.0	761.8	657.7	624.7	616.1	617.8	609.1	584.8	577.9
40°	1174.8	1090.7	929.3	768.8	659.4	625.6	617.8	616.9	602.2	568.3	561.4
42.5°	1202.6	1125.4	954.5	778.3	666.4	628.2	621.3	618.7	600.4	562.3	552.7
45°	1229.5	1150.5	972.7	786.1	673.3	631.7	623.0	620.4	599.6	557.1	550.1
47.5°	1253.8	1166.2	981.4	790.5	678.5	634.3	623.9	619.5	595.2	554.5	547.5
50°	1265.1	1174.8	981.4	790.5	680.3	636.9	622.1	616.1	588.3	550.1	544.0
52.5°	1282.4	1180.1	973.5	785.3	677.7	636.9	618.7	609.1	579.6	544.0	538.8
55°	1308.5	1189.6	963.1	777.4	671.6	631.7	612.6	599.6	567.5	535.4	531.0
57°	1317.1	1193.1	956.2	767.9	664.6	624.7	605.6	589.2	556.2	526.7	522.3
57.5°	1315.4	1191.3	953.6	765.3	662.0	622.1	603.9	586.6	553.6	524.9	520.6
60°	1292.0	1174.8	937.1	748.8	648.2	608.2	588.3	569.2	535.4	510.2	506.7
62.5°	1253.8	1137.5	907.6	727.1	629.1	589.2	568.3	546.6	512.8	491.1	489.4
65°	1188.7	1075.1	865.1	695.9	604.8	564.0	541.4	518.0	488.5	469.4	464.2
67.5°	1080.3	991.8	805.2	652.5	567.5	532.8	508.5	484.2	457.3	440.8	437.3
70°	990.0	900.7	728.9	597.8	522.3	489.4	466.8	443.4	420.0	405.2	404.3
72.5°	875.5	789.6	633.4	530.2	465.1	433.0	415.6	394.8	376.6	363.6	363.6
75°	736.7	669.0	534.5	449.5	396.5	373.1	358.4	341.9	326.2	317.6	319.3
77.5°	585.7	534.5	436.4	363.6	324.5	308.9	295.0	285.5	275.9	268.1	269.0
80°	432.1	393.9	321.0	267.2	248.2	234.3	231.7	225.6	220.4	217.8	213.5
82.5°	295.9	262.0	213.5	183.1	169.2	164.9	165.7	165.7	166.6	166.6	164.9
85°	153.6	140.6	108.5	98.0	96.3	100.7	105.9	109.3	108.5	108.5	105.9
87.5°	44.3	39.9	34.7	31.2	33.0	35.6	31.2	30.4	29.5	28.6	28.6
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)