

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: P472219

Luminaire Tested: **CCW-VA-3-730-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472219
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-730-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4288.8 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

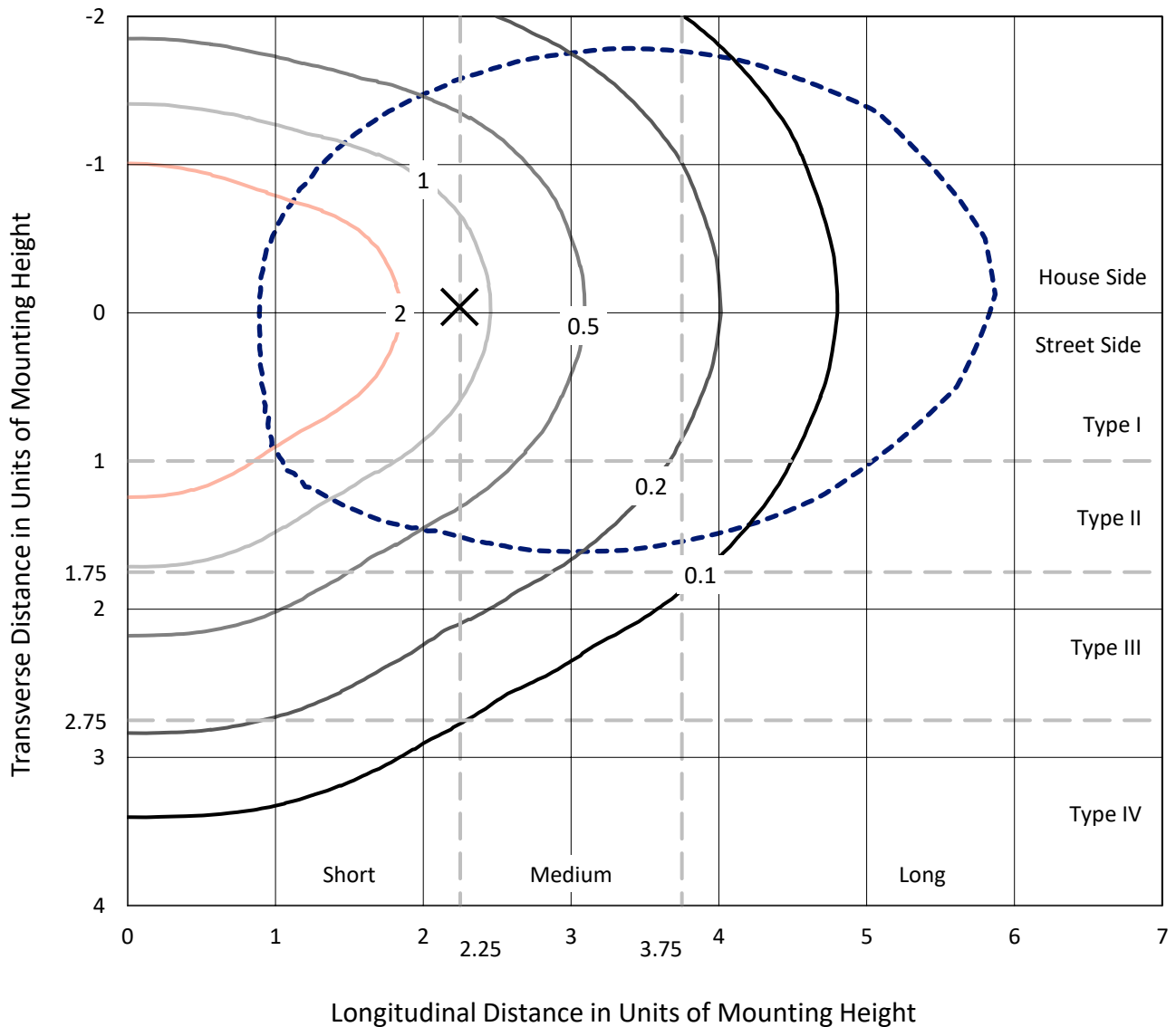
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

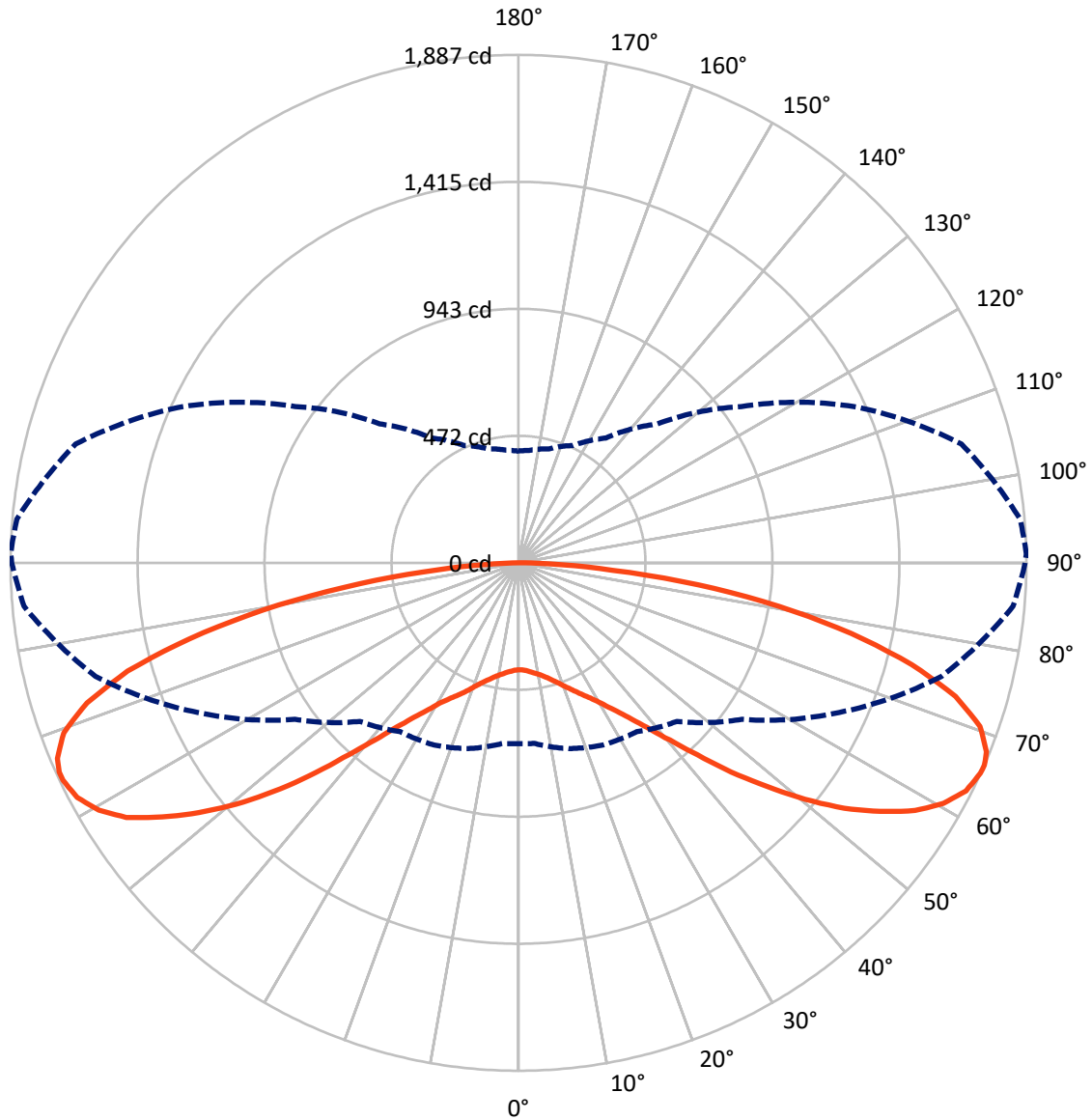
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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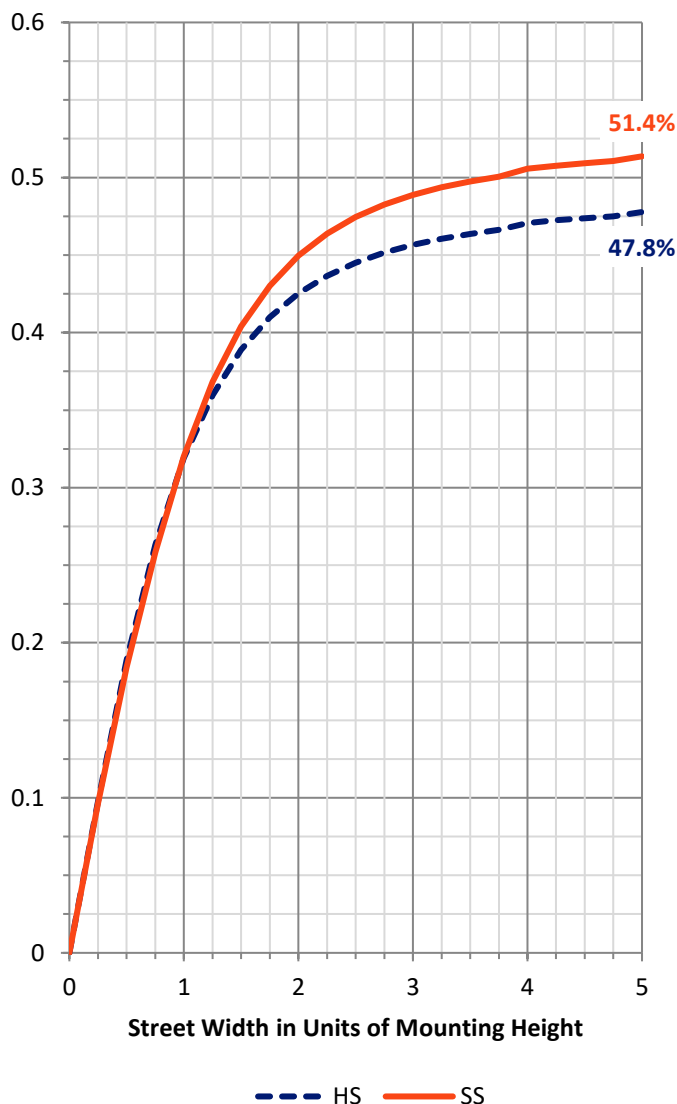
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2070.0	0.0	2070.0
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	2218.8	0.0	2218.8
	% Fixture	51.7	0.0	51.7
Total	Lumens	4288.8	0.0	4288.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	0.9
10°-20°	128.0	3.0
20°-30°	247.6	5.8
30°-40°	406.3	9.5
40°-50°	643.5	15.0
50°-60°	887.3	20.7
60°-70°	996.5	23.2
70°-80°	744.7	17.4
80°-90°	195.7	4.6
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°	4288.8	100.0
0°-180°	4288.8	100.0

Coefficient of Utilization

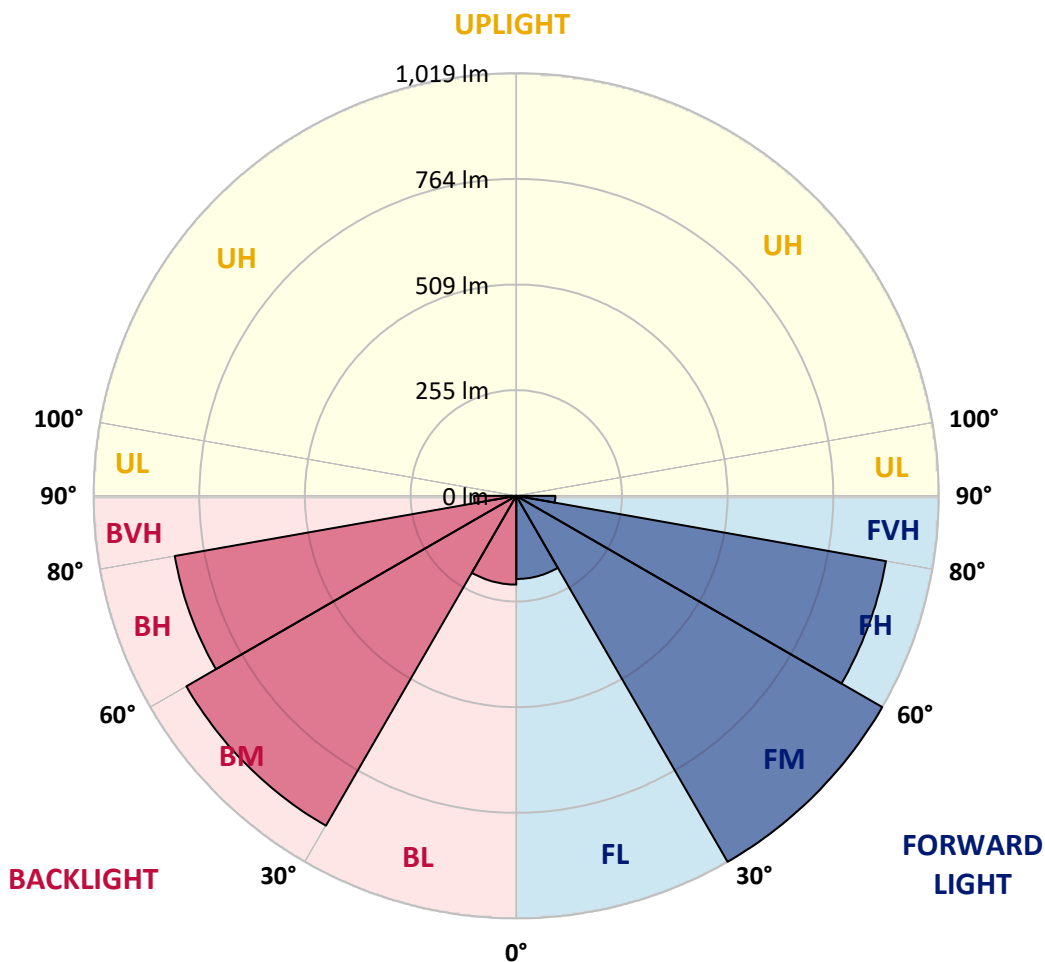


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.5	4.7			
FM (30°-60°)	1018.9	23.8			
FH (60°-80°)	905.1	21.1			G1/1800
FVH (80°-90°)	94.2	2.2			G1/100
BL (0°-30°)	214.2	5.0	B1/500		
BM (30°-60°)	918.3	21.4	B1/1000		
BH (60°-80°)	836.0	19.5	B2/1000		G2/1000
BVH (80°-90°)	101.4	2.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	397.4	397.4	397.4	397.4	397.4	397.4	397.4	397.4	397.4	397.4	397.4
2.5°	398.9	398.9	398.9	398.9	400.4	400.4	400.4	400.4	400.4	398.9	398.9
5°	402.0	402.0	402.0	402.0	403.5	403.5	403.5	403.5	405.0	405.0	405.0
7.5°	405.0	405.0	406.5	406.5	408.0	408.0	409.5	409.5	411.1	412.6	412.6
10°	411.1	411.1	412.6	412.6	415.6	417.1	418.6	418.6	421.7	421.7	421.7
12.5°	418.6	420.2	421.7	423.2	426.2	427.7	429.3	430.8	432.3	433.8	433.8
15°	430.8	429.3	432.3	435.3	436.8	439.9	441.4	442.9	445.9	449.0	449.0
17.5°	439.9	441.4	442.9	445.9	449.0	453.5	456.6	459.6	462.6	465.7	465.7
20°	452.0	450.5	456.6	461.1	464.1	470.2	474.8	480.8	483.9	486.9	488.4
22.5°	462.6	464.1	467.2	473.2	479.3	488.4	497.5	502.1	506.6	509.6	514.2
25°	476.3	477.8	482.3	488.4	497.5	508.1	518.7	524.8	529.4	535.4	540.0
27.5°	489.9	489.9	497.5	506.6	517.2	530.9	543.0	549.1	556.7	564.2	567.3
30°	505.1	505.1	512.7	524.8	540.0	555.1	565.8	577.9	588.5	596.1	602.2
32.5°	527.8	527.8	536.9	549.1	565.8	584.0	599.1	611.3	624.9	638.6	650.7
35°	553.6	555.1	567.3	582.5	602.2	624.9	638.6	655.3	670.4	693.2	705.3
37.5°	594.6	596.1	609.8	629.5	649.2	673.5	696.2	715.9	738.7	764.5	773.6
40°	655.3	659.8	673.5	682.6	700.8	719.0	752.3	785.7	825.1	860.0	866.1
42.5°	764.5	759.9	750.8	747.8	752.3	772.1	808.5	860.0	929.8	973.8	973.8
45°	806.9	806.9	808.5	805.4	802.4	816.0	858.5	940.4	1039.0	1099.7	1111.8
47.5°	814.5	816.0	829.7	841.8	844.9	860.0	911.6	1019.3	1151.3	1240.7	1248.3
50°	814.5	817.6	835.8	857.0	872.2	893.4	957.1	1089.1	1262.0	1365.1	1384.8
52.5°	811.5	814.5	834.2	860.0	884.3	914.6	996.5	1161.9	1360.6	1500.1	1509.2
55°	803.9	806.9	831.2	858.5	885.8	926.8	1028.4	1224.1	1456.1	1612.4	1629.0
57.5°	794.8	799.4	825.1	854.0	879.7	929.8	1049.6	1272.6	1533.5	1712.5	1742.8
60°	776.6	784.2	813.0	841.8	866.1	919.2	1060.2	1310.5	1591.1	1785.3	1815.6
62.5°	740.2	747.8	779.6	811.5	835.8	893.4	1054.2	1328.7	1624.5	1830.8	1862.6
65°	694.7	697.7	732.6	766.0	790.3	850.9	1028.4	1325.7	1632.1	1845.9	1882.3
66°	671.9	673.5	714.4	746.3	766.0	832.7	1013.2	1315.1	1627.5	1844.4	1882.3
67.5°	631.0	638.6	673.5	706.8	729.6	791.8	976.8	1290.8	1609.3	1829.3	1868.7
70°	559.7	565.8	594.6	628.0	652.2	711.4	897.9	1219.5	1542.6	1767.1	1812.6
72.5°	482.3	486.9	517.2	541.5	556.7	620.4	802.4	1102.7	1425.8	1650.3	1694.3
75°	400.4	403.5	430.8	447.5	461.1	517.2	675.0	952.6	1242.3	1460.7	1518.3
77.5°	315.5	317.0	339.8	354.9	354.9	403.5	535.4	772.1	1019.3	1221.0	1263.5
80°	232.1	230.6	244.2	251.8	256.3	288.2	385.3	567.3	776.6	934.3	975.3
82.5°	151.7	150.2	159.3	162.3	162.3	182.0	242.7	359.5	509.6	634.0	658.3
85°	80.4	83.4	81.9	81.9	81.9	89.5	121.3	188.1	271.5	339.8	356.4
87.5°	13.7	13.7	13.7	15.2	18.2	24.3	31.9	53.1	77.4	104.7	118.3
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):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	397.4	397.4	397.4	397.4	397.4	397.4	397.4	397.4	397.4	397.4	397.4
2.5°	398.9	400.4	400.4	400.4	400.4	400.4	400.4	400.4	400.4	400.4	400.4
5°	405.0	405.0	405.0	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5
7.5°	412.6	412.6	414.1	414.1	414.1	415.6	415.6	414.1	414.1	414.1	414.1
10°	421.7	421.7	423.2	424.7	424.7	426.2	426.2	424.7	424.7	423.2	423.2
12.5°	433.8	435.3	436.8	438.4	439.9	439.9	438.4	436.8	435.3	433.8	433.8
15°	449.0	450.5	452.0	455.0	455.0	455.0	453.5	452.0	449.0	447.5	449.0
17.5°	467.2	468.7	471.7	473.2	474.8	473.2	473.2	471.7	471.7	470.2	470.2
20°	489.9	491.4	496.0	497.5	497.5	499.0	503.6	506.6	511.2	512.7	512.7
22.5°	512.7	515.7	520.3	526.3	529.4	535.4	536.9	540.0	538.5	533.9	533.9
25°	540.0	543.0	552.1	559.7	565.8	568.8	565.8	561.2	553.6	547.6	546.0
27.5°	568.8	573.4	587.0	597.6	600.7	597.6	585.5	574.9	565.8	558.2	555.1
30°	605.2	612.8	628.0	634.0	632.5	620.4	602.2	588.5	574.9	565.8	564.2
32.5°	650.7	658.3	671.9	673.5	664.4	641.6	617.3	599.1	582.5	571.8	570.3
35°	705.3	712.9	720.5	715.9	690.1	661.3	631.0	605.2	588.5	576.4	576.4
37.5°	775.1	779.6	779.6	756.9	717.4	679.5	641.6	611.3	593.1	580.9	579.4
40°	866.1	864.6	843.3	799.4	747.8	696.2	649.2	617.3	594.6	582.5	580.9
42.5°	975.3	964.7	919.2	847.9	776.6	711.4	658.3	618.9	593.1	580.9	579.4
45°	1108.8	1090.6	1008.7	904.0	806.9	725.0	662.8	617.3	588.5	574.9	573.4
47.5°	1240.7	1230.1	1117.9	963.2	837.3	740.2	665.9	612.8	579.4	559.7	559.7
50°	1380.3	1354.5	1227.1	1034.5	869.1	750.8	665.9	605.2	564.2	543.0	540.0
52.5°	1515.3	1489.5	1337.8	1105.7	904.0	761.4	662.8	594.6	550.6	527.8	524.8
55°	1630.6	1609.3	1445.5	1186.1	940.4	769.0	658.3	582.5	536.9	515.7	512.7
57.5°	1736.7	1715.5	1539.6	1254.4	975.3	773.6	647.7	567.3	520.3	499.0	497.5
60°	1814.1	1797.4	1619.9	1318.1	1004.1	773.6	632.5	549.1	502.1	480.8	479.3
62.5°	1865.7	1849.0	1677.6	1360.6	1022.3	763.0	609.8	524.8	479.3	459.6	455.0
65°	1885.4	1870.2	1703.4	1377.3	1019.3	741.7	579.4	494.5	450.5	430.8	427.7
66°	1886.9	1870.2	1703.4	1374.2	1011.7	729.6	565.8	480.8	438.4	418.6	415.6
67.5°	1874.8	1859.6	1692.7	1359.1	990.5	706.8	538.5	458.1	415.6	395.9	394.4
70°	1818.6	1806.5	1635.1	1301.4	940.4	656.8	493.0	414.1	373.1	359.5	354.9
72.5°	1697.3	1683.6	1519.8	1193.7	858.5	588.5	435.3	362.5	329.1	312.5	310.9
75°	1509.2	1503.1	1343.9	1051.1	740.2	506.6	368.6	306.4	279.1	267.0	267.0
77.5°	1263.5	1251.4	1116.4	869.1	608.2	409.5	295.8	248.8	227.5	216.9	218.4
80°	982.9	973.8	860.0	652.2	459.6	307.9	221.5	189.6	174.4	168.4	165.3
82.5°	673.5	649.2	573.4	432.3	298.8	207.8	153.2	132.0	124.4	122.9	121.3
85°	350.4	359.5	301.8	229.0	162.3	115.3	92.5	84.9	81.9	83.4	83.4
87.5°	115.3	118.3	91.0	69.8	53.1	41.0	34.9	33.4	28.8	31.9	33.4
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)