

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: P472259

Luminaire Tested: **CCW-VA-3-860-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472259
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-860-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 5700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4293.2 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

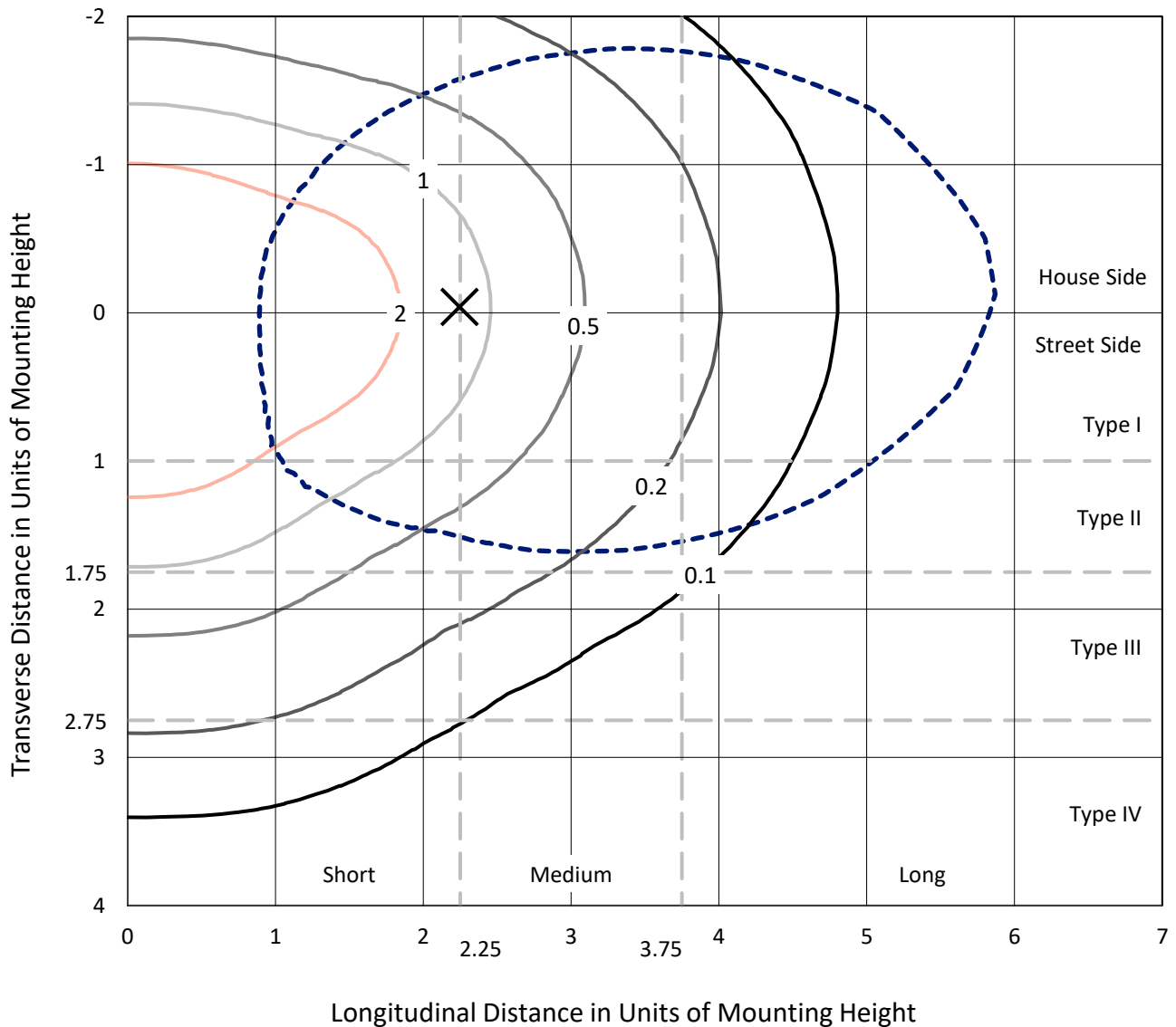
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

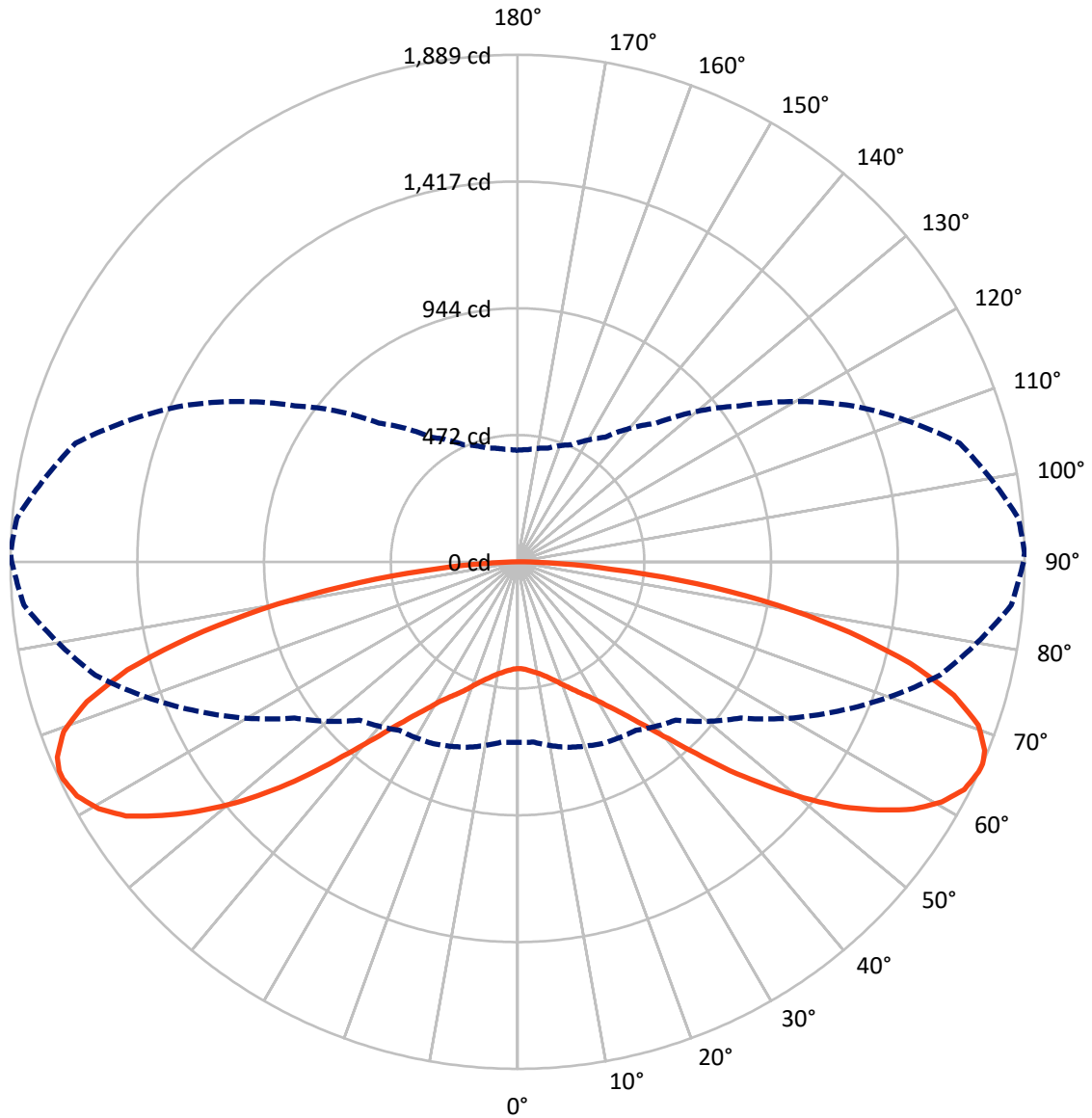
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 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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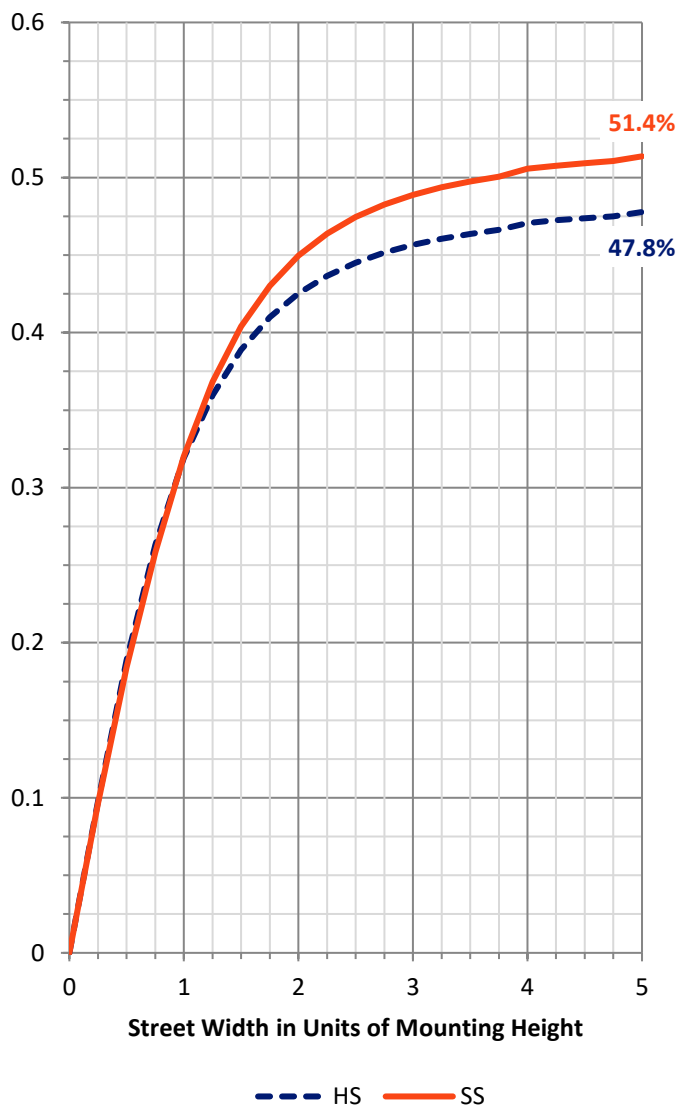
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2072.1	0.0	2072.1
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	2221.1	0.0	2221.1
	% Fixture	51.7	0.0	51.7
Total	Lumens	4293.2	0.0	4293.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.9
10°-20°	128.1	3.0
20°-30°	247.9	5.8
30°-40°	406.7	9.5
40°-50°	644.2	15.0
50°-60°	888.3	20.7
60°-70°	997.5	23.2
70°-80°	745.5	17.4
80°-90°	195.9	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°	4293.2	100.0
0°-180°	4293.2	100.0

Coefficient of Utilization

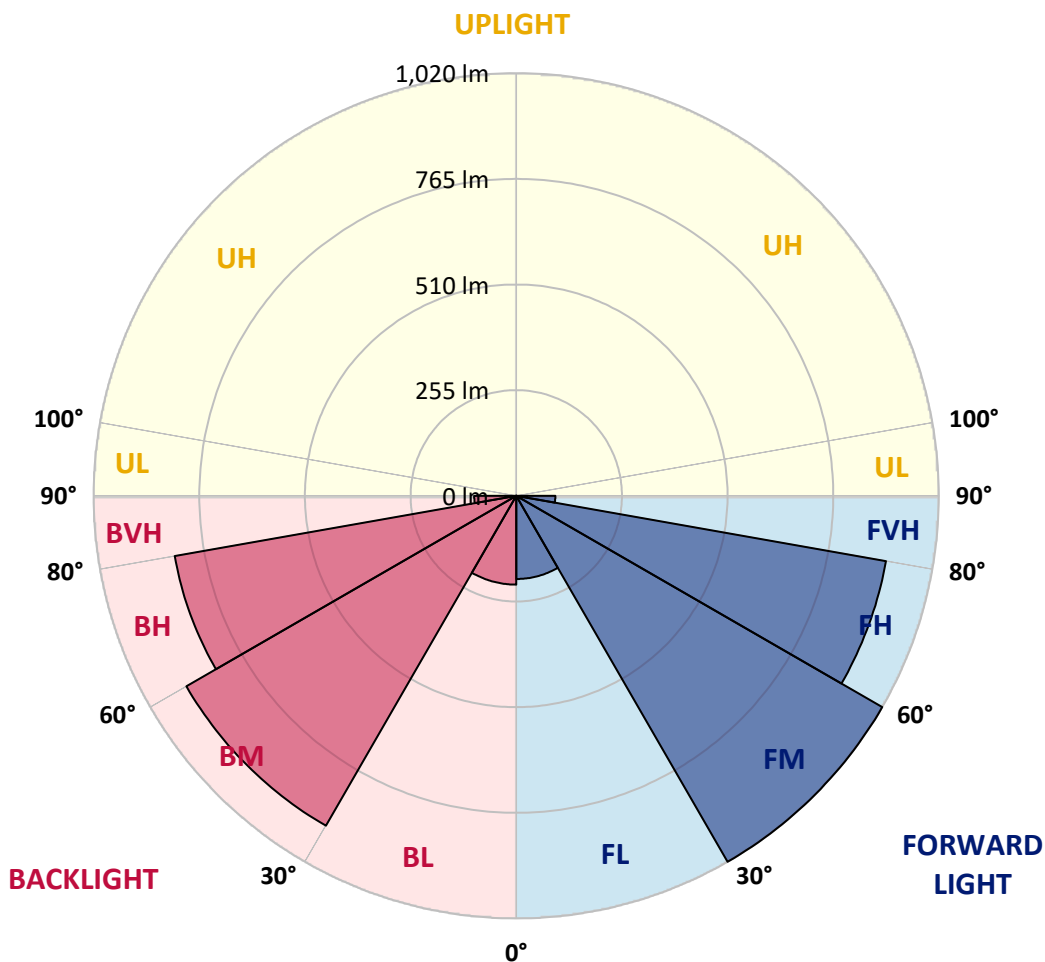


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.7	4.7			
FM (30°-60°)	1019.9	23.8			
FH (60°-80°)	906.1	21.1			G1/1800
FVH (80°-90°)	94.3	2.2			G1/100
BL (0°-30°)	214.4	5.0	B1/500		
BM (30°-60°)	919.2	21.4	B1/1000		
BH (60°-80°)	836.9	19.5	B2/1000		G2/1000
BVH (80°-90°)	101.5	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°	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8
2.5°	399.3	399.3	399.3	399.3	400.8	400.8	400.8	400.8	400.8	399.3	399.3
5°	402.4	402.4	402.4	402.4	403.9	403.9	403.9	403.9	405.4	405.4	405.4
7.5°	405.4	405.4	406.9	406.9	408.4	408.4	410.0	410.0	411.5	413.0	413.0
10°	411.5	411.5	413.0	413.0	416.0	417.6	419.1	419.1	422.1	422.1	422.1
12.5°	419.1	420.6	422.1	423.6	426.7	428.2	429.7	431.2	432.7	434.3	434.3
15°	431.2	429.7	432.7	435.8	437.3	440.3	441.8	443.4	446.4	449.4	449.4
17.5°	440.3	441.8	443.4	446.4	449.4	454.0	457.0	460.1	463.1	466.1	466.1
20°	452.5	451.0	457.0	461.6	464.6	470.7	475.2	481.3	484.4	487.4	488.9
22.5°	463.1	464.6	467.7	473.7	479.8	488.9	498.0	502.6	507.1	510.2	514.7
25°	476.8	478.3	482.8	488.9	498.0	508.7	519.3	525.4	529.9	536.0	540.5
27.5°	490.4	490.4	498.0	507.1	517.8	531.4	543.6	549.6	557.2	564.8	567.9
30°	505.6	505.6	513.2	525.4	540.5	555.7	566.3	578.5	589.1	596.7	602.8
32.5°	528.4	528.4	537.5	549.6	566.3	584.6	599.8	611.9	625.6	639.2	651.4
35°	554.2	555.7	567.9	583.1	602.8	625.6	639.2	655.9	671.1	693.9	706.0
37.5°	595.2	596.7	610.4	630.1	649.9	674.2	696.9	716.7	739.4	765.3	774.4
40°	655.9	660.5	674.2	683.3	701.5	719.7	753.1	786.5	826.0	860.9	867.0
42.5°	765.3	760.7	751.6	748.6	753.1	772.8	809.3	860.9	930.8	974.8	974.8
45°	807.8	807.8	809.3	806.3	803.2	816.9	859.4	941.4	1040.1	1100.8	1113.0
47.5°	815.4	816.9	830.5	842.7	845.7	860.9	912.5	1020.3	1152.4	1242.0	1249.6
50°	815.4	818.4	836.6	857.9	873.1	894.3	958.1	1090.2	1263.3	1366.5	1386.3
52.5°	812.3	815.4	835.1	860.9	885.2	915.6	997.6	1163.1	1362.0	1501.7	1510.8
55°	804.7	807.8	832.1	859.4	886.7	927.7	1029.5	1225.3	1457.6	1614.0	1630.7
57.5°	795.6	800.2	826.0	854.8	880.7	930.8	1050.7	1273.9	1535.1	1714.2	1744.6
60°	777.4	785.0	813.8	842.7	867.0	920.1	1061.3	1311.9	1592.8	1787.1	1817.5
62.5°	741.0	748.6	780.4	812.3	836.6	894.3	1055.3	1330.1	1626.2	1832.7	1864.6
65°	695.4	698.4	733.4	766.8	791.1	851.8	1029.5	1327.1	1633.8	1847.8	1884.3
66°	672.6	674.2	715.1	747.0	766.8	833.6	1014.3	1316.4	1629.2	1846.3	1884.3
67.5°	631.6	639.2	674.2	707.6	730.3	792.6	977.8	1292.1	1611.0	1831.1	1870.6
70°	560.3	566.3	595.2	628.6	652.9	712.1	898.9	1220.8	1544.2	1768.9	1814.4
72.5°	482.8	487.4	517.8	542.1	557.2	621.0	803.2	1103.9	1427.3	1652.0	1696.0
75°	400.8	403.9	431.2	447.9	461.6	517.8	675.7	953.5	1243.5	1462.2	1519.9
77.5°	315.8	317.3	340.1	355.3	355.3	403.9	536.0	772.8	1020.3	1222.3	1264.8
80°	232.3	230.8	244.5	252.0	256.6	288.5	385.7	567.9	777.4	935.3	976.3
82.5°	151.8	150.3	159.4	162.5	162.5	182.2	242.9	359.9	510.2	634.7	659.0
85°	80.5	83.5	82.0	82.0	82.0	89.6	121.5	188.3	271.8	340.1	356.8
87.5°	13.7	13.7	13.7	15.2	18.2	24.3	31.9	53.1	77.4	104.8	118.4
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°	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8
2.5°	399.3	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8
5°	405.4	405.4	405.4	406.9	406.9	406.9	406.9	406.9	406.9	406.9	406.9
7.5°	413.0	413.0	414.5	414.5	414.5	416.0	416.0	414.5	414.5	414.5	414.5
10°	422.1	422.1	423.6	425.1	425.1	426.7	426.7	425.1	425.1	423.6	423.6
12.5°	434.3	435.8	437.3	438.8	440.3	440.3	438.8	437.3	435.8	434.3	434.3
15°	449.4	451.0	452.5	455.5	455.5	455.5	454.0	452.5	449.4	447.9	449.4
17.5°	467.7	469.2	472.2	473.7	475.2	473.7	473.7	472.2	472.2	470.7	470.7
20°	490.4	492.0	496.5	498.0	498.0	499.5	504.1	507.1	511.7	513.2	513.2
22.5°	513.2	516.2	520.8	526.9	529.9	536.0	537.5	540.5	539.0	534.5	534.5
25°	540.5	543.6	552.7	560.3	566.3	569.4	566.3	561.8	554.2	548.1	546.6
27.5°	569.4	573.9	587.6	598.2	601.3	598.2	586.1	575.5	566.3	558.8	555.7
30°	605.8	613.4	628.6	634.7	633.2	621.0	602.8	589.1	575.5	566.3	564.8
32.5°	651.4	659.0	672.6	674.2	665.0	642.3	618.0	599.8	583.1	572.4	570.9
35°	706.0	713.6	721.2	716.7	690.9	662.0	631.6	605.8	589.1	577.0	577.0
37.5°	775.9	780.4	780.4	757.7	718.2	680.2	642.3	611.9	593.7	581.5	580.0
40°	867.0	865.5	844.2	800.2	748.6	696.9	649.9	618.0	595.2	583.1	581.5
42.5°	976.3	965.7	920.1	848.8	777.4	712.1	659.0	619.5	593.7	581.5	580.0
45°	1109.9	1091.7	1009.7	904.9	807.8	725.8	663.5	618.0	589.1	575.5	573.9
47.5°	1242.0	1231.4	1119.0	964.2	838.1	741.0	666.6	613.4	580.0	560.3	560.3
50°	1381.7	1355.9	1228.4	1035.5	870.0	751.6	666.6	605.8	564.8	543.6	540.5
52.5°	1516.8	1491.0	1339.2	1106.9	904.9	762.2	663.5	595.2	551.2	528.4	525.4
55°	1632.2	1611.0	1447.0	1187.4	941.4	769.8	659.0	583.1	537.5	516.2	513.2
57.5°	1738.5	1717.3	1541.1	1255.7	976.3	774.4	648.3	567.9	520.8	499.5	498.0
60°	1816.0	1799.3	1621.6	1319.5	1005.2	774.4	633.2	549.6	502.6	481.3	479.8
62.5°	1867.6	1850.9	1679.3	1362.0	1023.4	763.7	610.4	525.4	479.8	460.1	455.5
65°	1887.3	1872.1	1705.1	1378.7	1020.3	742.5	580.0	495.0	451.0	431.2	428.2
66°	1888.8	1872.1	1705.1	1375.6	1012.7	730.3	566.3	481.3	438.8	419.1	416.0
67.5°	1876.7	1861.5	1694.5	1360.5	991.5	707.6	539.0	458.5	416.0	396.3	394.8
70°	1820.5	1808.4	1636.8	1302.8	941.4	657.5	493.5	414.5	373.5	359.9	355.3
72.5°	1699.0	1685.4	1521.4	1195.0	859.4	589.1	435.8	362.9	329.5	312.8	311.3
75°	1510.8	1504.7	1345.3	1052.2	741.0	507.1	369.0	306.7	279.4	267.2	267.2
77.5°	1264.8	1252.7	1117.5	870.0	608.9	410.0	296.1	249.0	227.8	217.1	218.6
80°	983.9	974.8	860.9	652.9	460.1	308.2	221.7	189.8	174.6	168.5	165.5
82.5°	674.2	649.9	573.9	432.7	299.1	208.0	153.4	132.1	124.5	123.0	121.5
85°	350.7	359.9	302.2	229.3	162.5	115.4	92.6	85.0	82.0	83.5	83.5
87.5°	115.4	118.4	91.1	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)