

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: P472215

Luminaire Tested: **CCW-VA-3-727-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472215
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-727-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4042.8 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

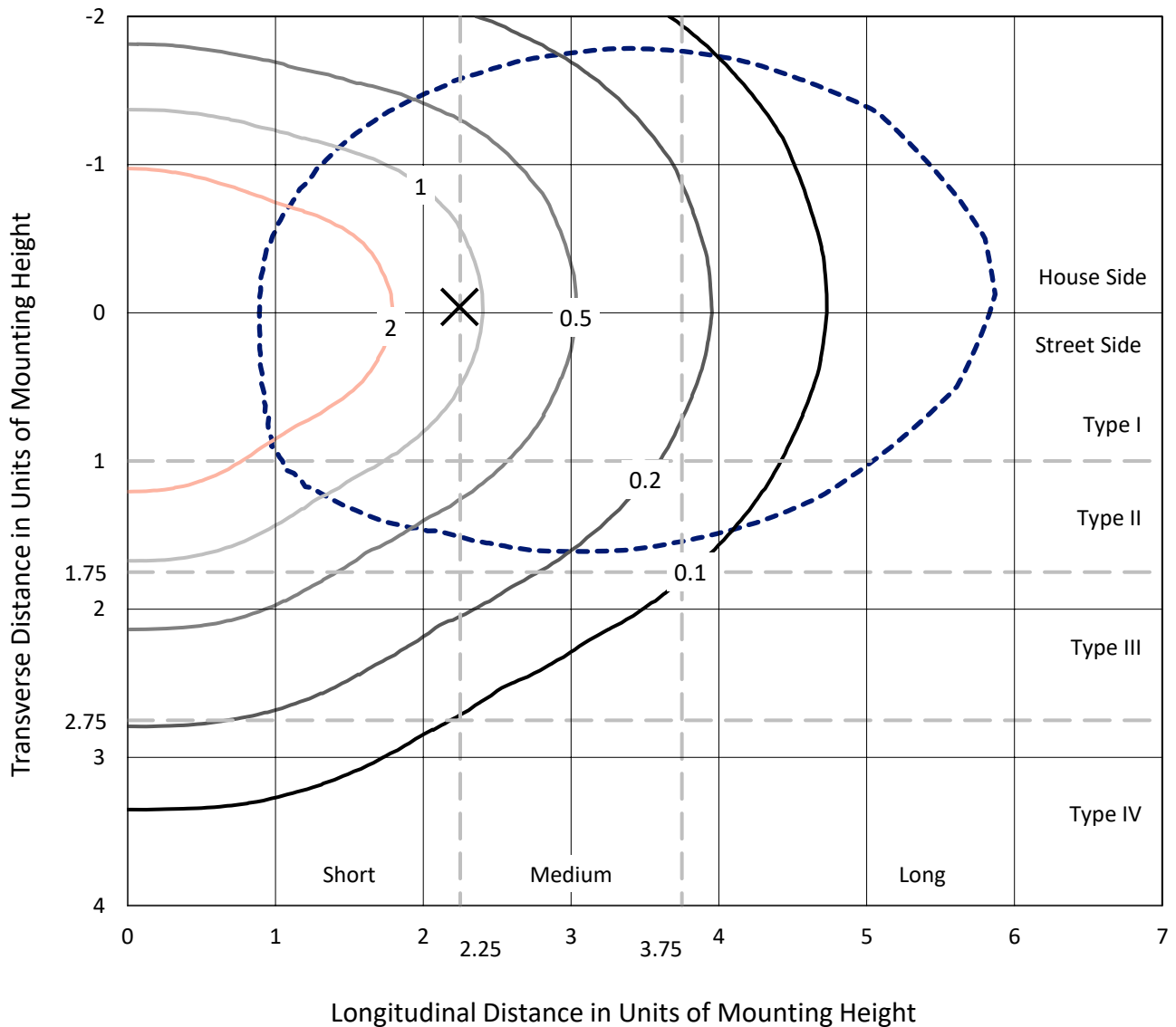
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

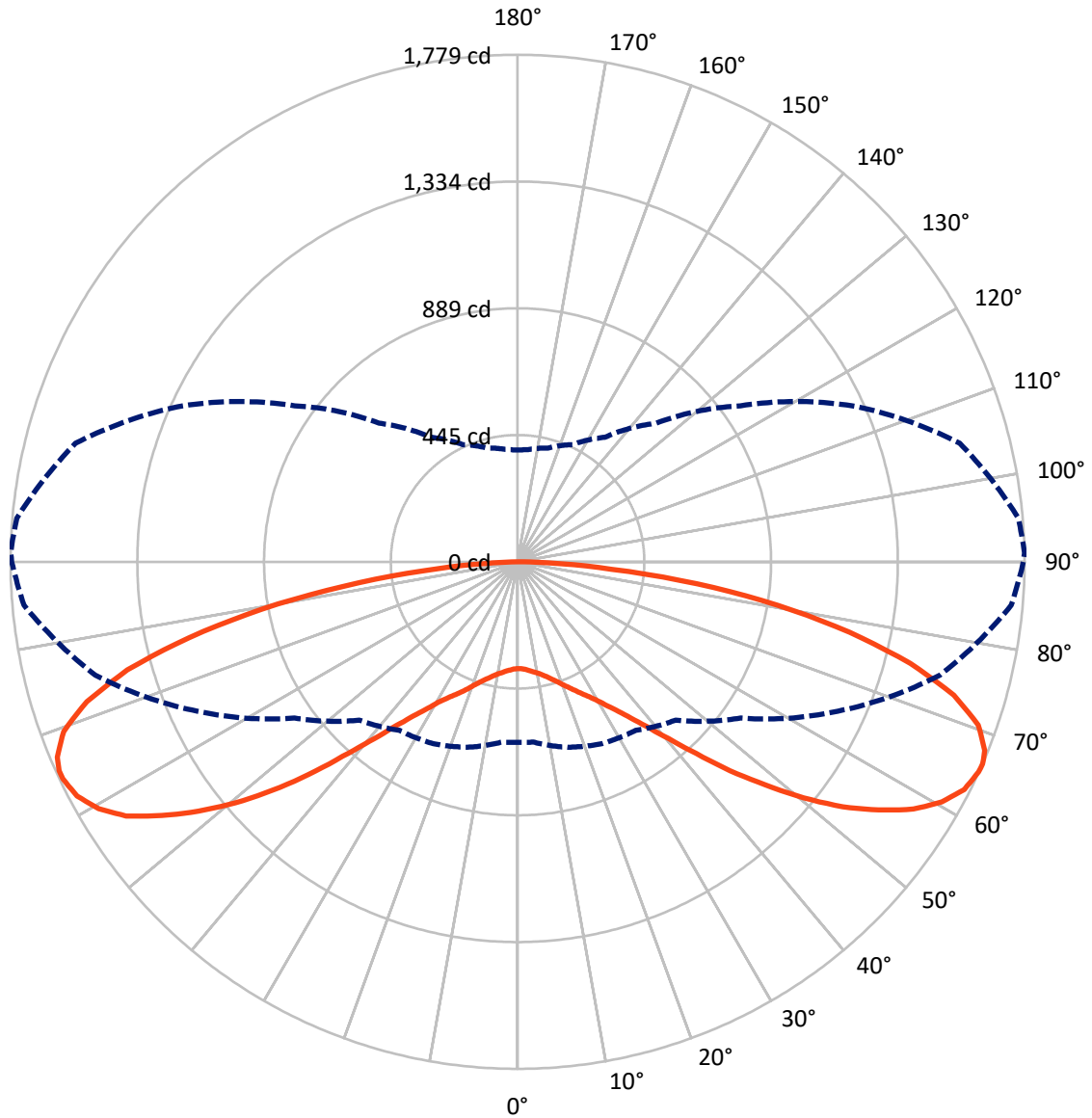
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 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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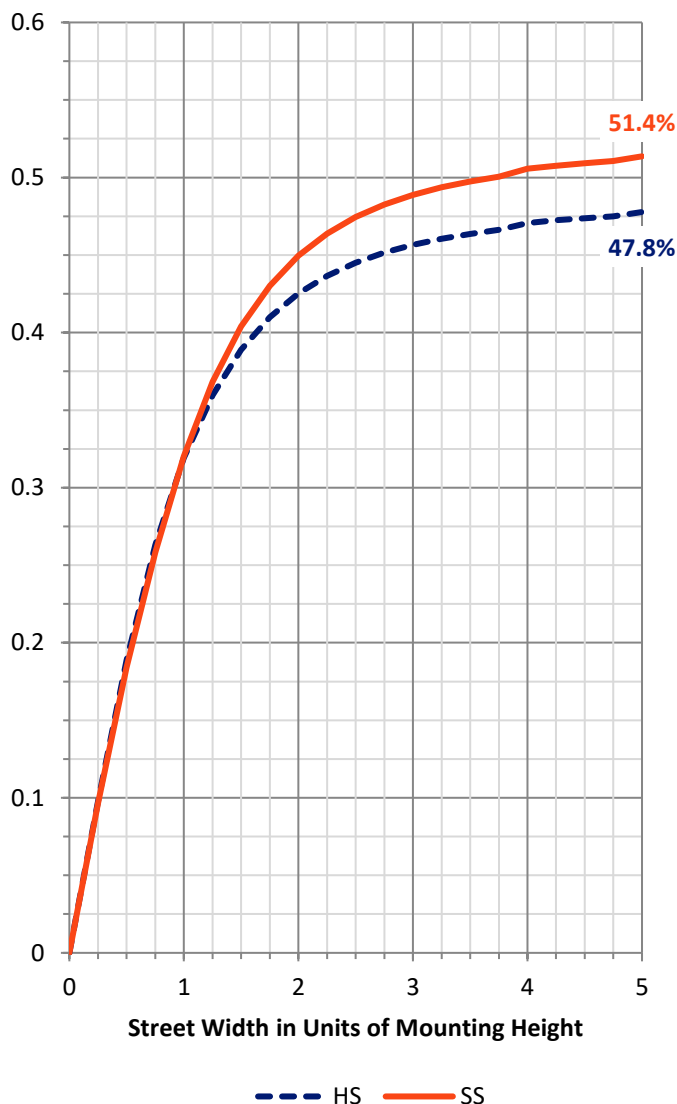
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1951.3	0.0	1951.3
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	2091.5	0.0	2091.5
	% Fixture	51.7	0.0	51.7
Total	Lumens	4042.8	0.0	4042.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	0.9
10°-20°	120.7	3.0
20°-30°	233.4	5.8
30°-40°	383.0	9.5
40°-50°	606.6	15.0
50°-60°	836.5	20.7
60°-70°	939.3	23.2
70°-80°	702.0	17.4
80°-90°	184.5	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°	4042.8	100.0
0°-180°	4042.8	100.0

Coefficient of Utilization

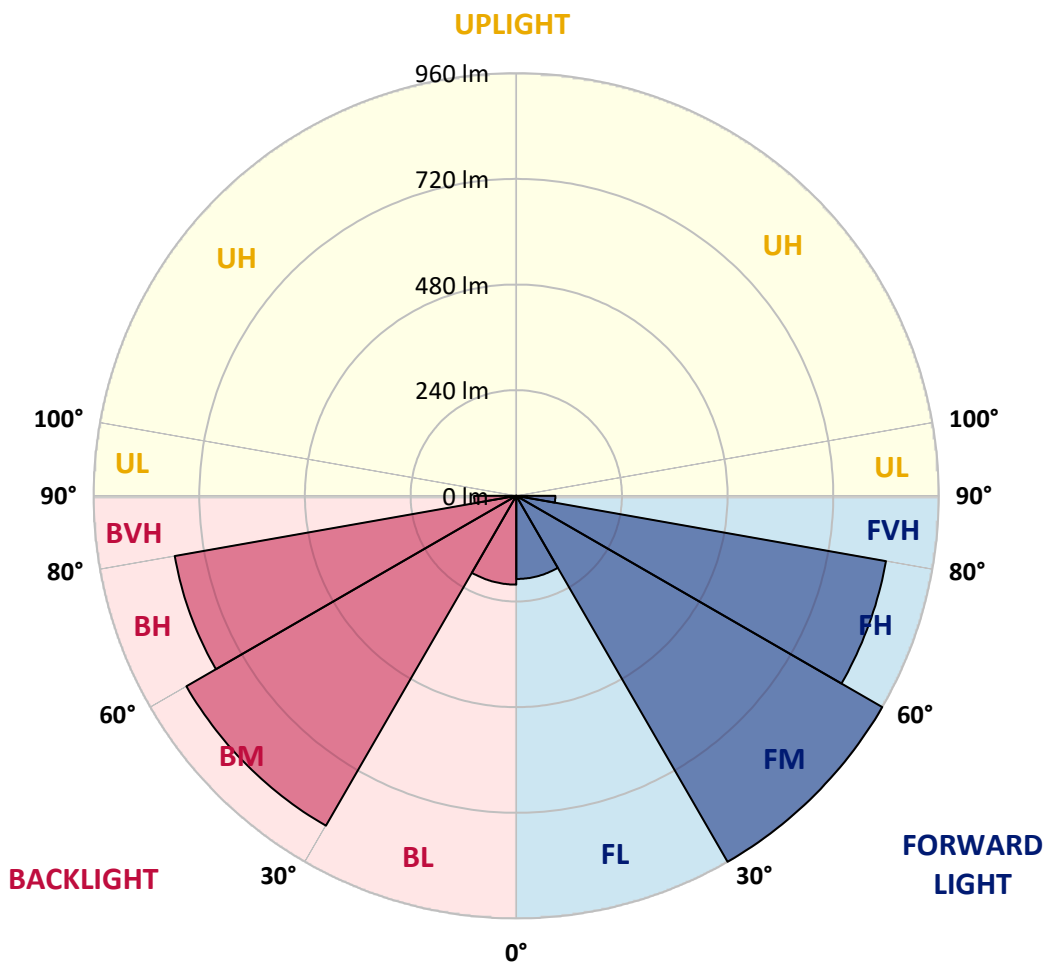


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.0	4.7			
FM (30°-60°)	960.4	23.8			
FH (60°-80°)	853.2	21.1			G1/1800
FVH (80°-90°)	88.8	2.2			G1/100
BL (0°-30°)	201.9	5.0	B1/500		
BM (30°-60°)	865.6	21.4	B1/1000		
BH (60°-80°)	788.1	19.5	B2/1000		G2/1000
BVH (80°-90°)	95.6	2.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6
2.5°	376.0	376.0	376.0	376.0	377.5	377.5	377.5	377.5	377.5	376.0	376.0
5°	378.9	378.9	378.9	378.9	380.3	380.3	380.3	380.3	381.8	381.8	381.8
7.5°	381.8	381.8	383.2	383.2	384.6	384.6	386.1	386.1	387.5	388.9	388.9
10°	387.5	387.5	388.9	388.9	391.8	393.2	394.6	394.6	397.5	397.5	397.5
12.5°	394.6	396.1	397.5	398.9	401.8	403.2	404.6	406.1	407.5	408.9	408.9
15°	406.1	404.6	407.5	410.4	411.8	414.6	416.1	417.5	420.4	423.2	423.2
17.5°	414.6	416.1	417.5	420.4	423.2	427.5	430.4	433.2	436.1	439.0	439.0
20°	426.1	424.7	430.4	434.7	437.5	443.2	447.5	453.3	456.1	459.0	460.4
22.5°	436.1	437.5	440.4	446.1	451.8	460.4	469.0	473.3	477.6	480.4	484.7
25°	449.0	450.4	454.7	460.4	469.0	479.0	489.0	494.7	499.0	504.7	509.0
27.5°	461.8	461.8	469.0	477.6	487.6	500.4	511.9	517.6	524.7	531.9	534.8
30°	476.1	476.1	483.3	494.7	509.0	523.3	533.3	544.8	554.8	561.9	567.6
32.5°	497.6	497.6	506.2	517.6	533.3	550.5	564.8	576.2	589.1	602.0	613.4
35°	521.9	523.3	534.8	549.1	567.6	589.1	602.0	617.7	632.0	653.4	664.9
37.5°	560.5	561.9	574.8	593.4	612.0	634.8	656.3	674.9	696.3	720.6	729.2
40°	617.7	622.0	634.8	643.4	660.6	677.7	709.2	740.6	777.8	810.7	816.4
42.5°	720.6	716.3	707.8	704.9	709.2	727.8	762.1	810.7	876.5	917.9	917.9
45°	760.7	760.7	762.1	759.2	756.4	769.2	809.3	886.5	979.4	1036.6	1048.1
47.5°	767.8	769.2	782.1	793.6	796.4	810.7	859.3	960.8	1085.2	1169.6	1176.7
50°	767.8	770.7	787.8	807.8	822.1	842.2	902.2	1026.6	1189.6	1286.8	1305.4
52.5°	765.0	767.8	786.4	810.7	833.6	862.2	939.4	1095.2	1282.6	1414.1	1422.7
55°	757.8	760.7	783.5	809.3	835.0	873.6	969.4	1153.9	1372.6	1519.9	1535.6
57.5°	749.2	753.5	777.8	805.0	829.3	876.5	989.4	1199.6	1445.5	1614.3	1642.9
60°	732.1	739.2	766.4	793.6	816.4	866.5	999.4	1235.4	1499.9	1682.9	1711.5
62.5°	697.8	704.9	734.9	765.0	787.8	842.2	993.7	1252.5	1531.3	1725.8	1755.8
65°	654.9	657.7	690.6	722.1	744.9	802.1	969.4	1249.7	1538.5	1740.1	1774.4
66°	633.4	634.8	673.4	703.5	722.1	785.0	955.1	1239.7	1534.2	1738.7	1774.4
67.5°	594.8	602.0	634.8	666.3	687.7	746.4	920.8	1216.8	1517.0	1724.4	1761.5
70°	527.6	533.3	560.5	591.9	614.8	670.6	846.5	1149.6	1454.1	1665.7	1708.6
72.5°	454.7	459.0	487.6	510.4	524.7	584.8	756.4	1039.5	1344.0	1555.6	1597.1
75°	377.5	380.3	406.1	421.8	434.7	487.6	636.3	897.9	1171.0	1376.9	1431.3
77.5°	297.4	298.8	320.3	334.6	334.6	380.3	504.7	727.8	960.8	1151.0	1191.0
80°	218.8	217.3	230.2	237.4	241.6	271.7	363.2	534.8	732.1	880.8	919.4
82.5°	143.0	141.6	150.1	153.0	153.0	171.6	228.8	338.9	480.4	597.7	620.5
85°	75.8	78.6	77.2	77.2	77.2	84.4	114.4	177.3	255.9	320.3	336.0
87.5°	12.9	12.9	12.9	14.3	17.2	22.9	30.0	50.0	72.9	98.7	111.5
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°	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6	374.6
2.5°	376.0	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5
5°	381.8	381.8	381.8	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2
7.5°	388.9	388.9	390.3	390.3	390.3	391.8	391.8	390.3	390.3	390.3	390.3
10°	397.5	397.5	398.9	400.4	400.4	401.8	401.8	400.4	400.4	398.9	398.9
12.5°	408.9	410.4	411.8	413.2	414.6	414.6	413.2	411.8	410.4	408.9	408.9
15°	423.2	424.7	426.1	428.9	428.9	428.9	427.5	426.1	423.2	421.8	423.2
17.5°	440.4	441.8	444.7	446.1	447.5	446.1	446.1	444.7	444.7	443.2	443.2
20°	461.8	463.3	467.6	469.0	469.0	470.4	474.7	477.6	481.8	483.3	483.3
22.5°	483.3	486.1	490.4	496.1	499.0	504.7	506.2	509.0	507.6	503.3	503.3
25°	509.0	511.9	520.5	527.6	533.3	536.2	533.3	529.0	521.9	516.2	514.7
27.5°	536.2	540.5	553.3	563.3	566.2	563.3	551.9	541.9	533.3	526.2	523.3
30°	570.5	577.6	591.9	597.7	596.2	584.8	567.6	554.8	541.9	533.3	531.9
32.5°	613.4	620.5	633.4	634.8	626.3	604.8	581.9	564.8	549.1	539.0	537.6
35°	664.9	672.0	679.2	674.9	650.6	623.4	594.8	570.5	554.8	543.3	543.3
37.5°	730.6	734.9	734.9	713.5	676.3	640.6	604.8	576.2	559.1	547.6	546.2
40°	816.4	815.0	795.0	753.5	704.9	656.3	612.0	581.9	560.5	549.1	547.6
42.5°	919.4	909.4	866.5	799.3	732.1	670.6	620.5	583.4	559.1	547.6	546.2
45°	1045.2	1028.0	950.8	852.2	760.7	683.5	624.8	581.9	554.8	541.9	540.5
47.5°	1169.6	1159.6	1053.8	907.9	789.3	697.8	627.7	577.6	546.2	527.6	527.6
50°	1301.1	1276.8	1156.7	975.1	819.3	707.8	627.7	570.5	531.9	511.9	509.0
52.5°	1428.4	1404.1	1261.1	1042.3	852.2	717.8	624.8	560.5	519.0	497.6	494.7
55°	1537.1	1517.0	1362.6	1118.1	886.5	724.9	620.5	549.1	506.2	486.1	483.3
57.5°	1637.1	1617.1	1451.3	1182.5	919.4	729.2	610.5	534.8	490.4	470.4	469.0
60°	1710.1	1694.3	1527.0	1242.5	946.5	729.2	596.2	517.6	473.3	453.3	451.8
62.5°	1758.7	1743.0	1581.4	1282.6	963.7	719.2	574.8	494.7	451.8	433.2	428.9
65°	1777.3	1763.0	1605.7	1298.3	960.8	699.2	546.2	466.1	424.7	406.1	403.2
66°	1778.7	1763.0	1605.7	1295.4	953.7	687.7	533.3	453.3	413.2	394.6	391.8
67.5°	1767.3	1753.0	1595.7	1281.1	933.7	666.3	507.6	431.8	391.8	373.2	371.8
70°	1714.4	1702.9	1541.3	1226.8	886.5	619.1	464.7	390.3	351.7	338.9	334.6
72.5°	1600.0	1587.1	1432.7	1125.3	809.3	554.8	410.4	341.7	310.3	294.5	293.1
75°	1422.7	1417.0	1266.8	990.9	697.8	477.6	347.4	288.8	263.1	251.6	251.6
77.5°	1191.0	1179.6	1052.3	819.3	573.4	386.1	278.8	234.5	214.5	204.5	205.9
80°	926.5	917.9	810.7	614.8	433.2	290.3	208.8	178.7	164.4	158.7	155.9
82.5°	634.8	612.0	540.5	407.5	281.7	195.9	144.4	124.4	117.2	115.8	114.4
85°	330.3	338.9	284.5	215.9	153.0	108.7	87.2	80.1	77.2	78.6	78.6
87.5°	108.7	111.5	85.8	65.8	50.0	38.6	32.9	31.5	27.2	30.0	31.5
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)