

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: P472250

Luminaire Tested: **CCW-VA-2-840-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472250
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-840-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3577.7 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

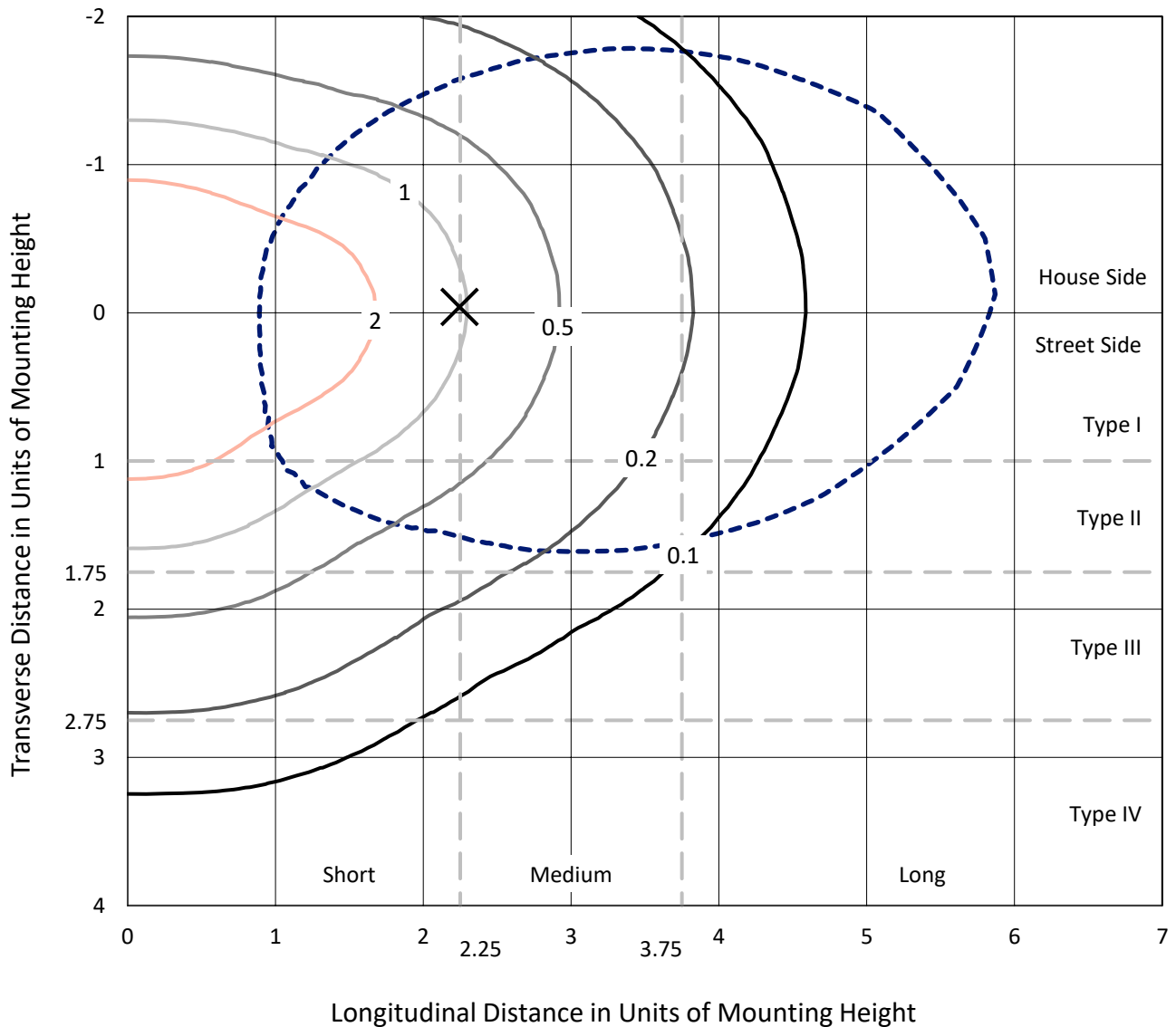
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

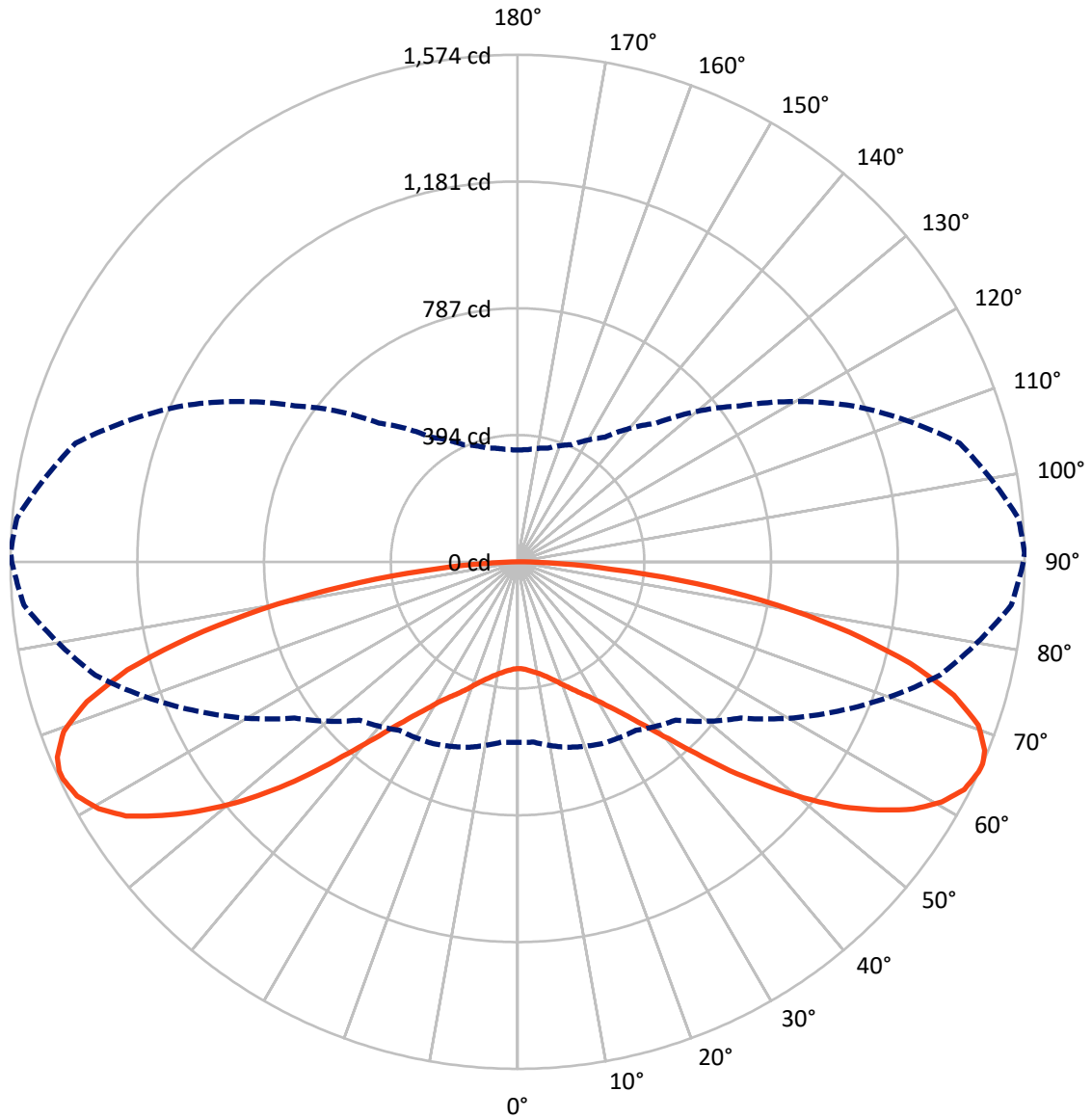
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 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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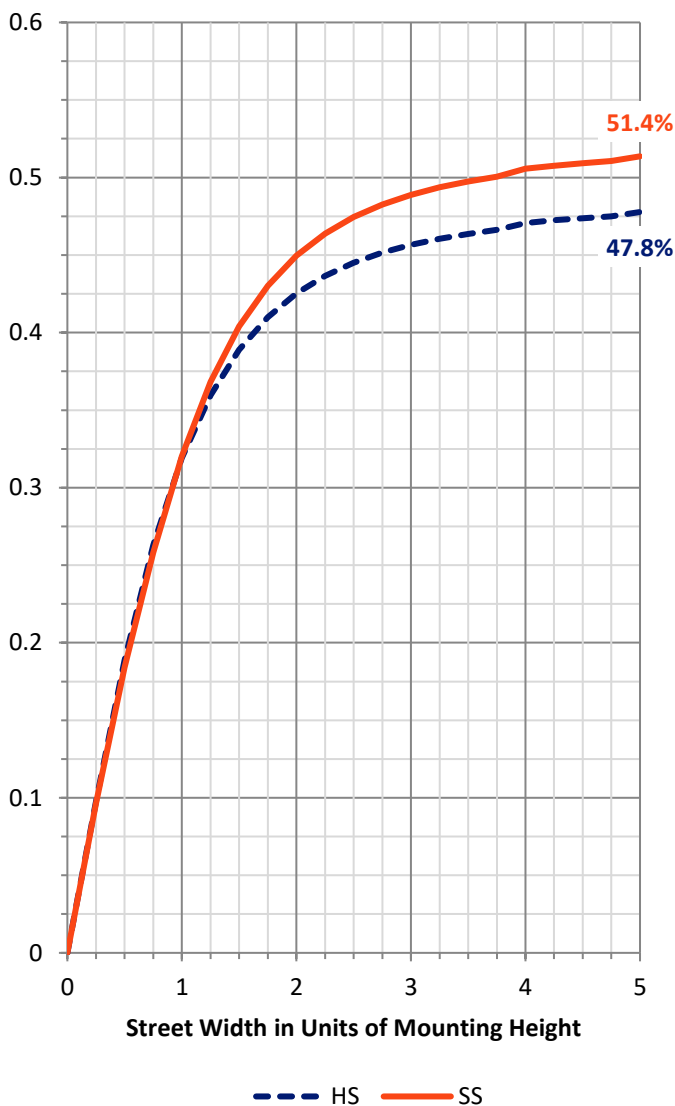
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.8	0.0	1726.8
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	1850.9	0.0	1850.9
	% Fixture	51.7	0.0	51.7
Total	Lumens	3577.7	0.0	3577.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	0.9
10°-20°	106.8	3.0
20°-30°	206.6	5.8
30°-40°	338.9	9.5
40°-50°	536.8	15.0
50°-60°	740.2	20.7
60°-70°	831.2	23.2
70°-80°	621.2	17.4
80°-90°	163.2	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°	3577.7	100.0
0°-180°	3577.7	100.0

Coefficient of Utilization

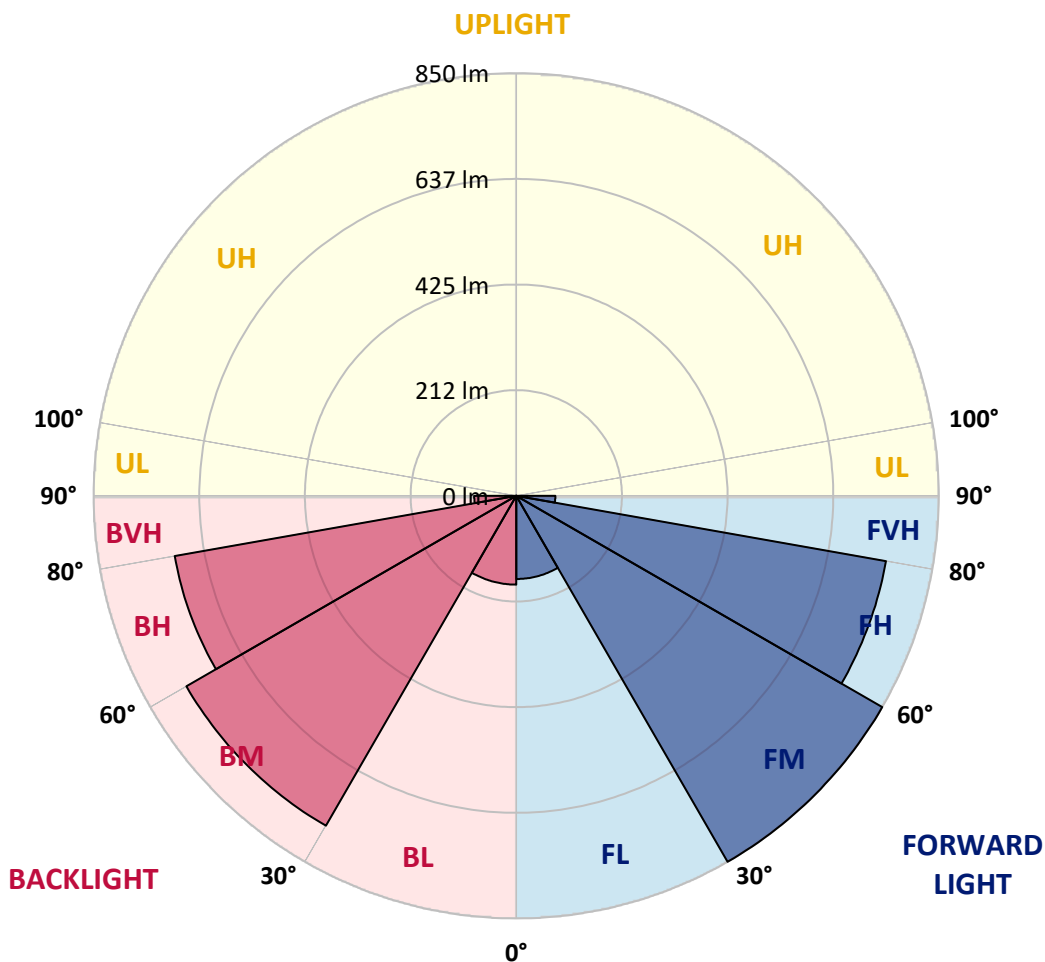


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.3	4.7			
FM (30°-60°)	849.9	23.8			
FH (60°-80°)	755.1	21.1			G1/1800
FVH (80°-90°)	78.6	2.2			G1/100
BL (0°-30°)	178.7	5.0	B1/500		
BM (30°-60°)	766.0	21.4	B1/1000		
BH (60°-80°)	697.4	19.5	B2/1000		G2/1000
BVH (80°-90°)	84.6	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°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	332.8	332.8	332.8	332.8	334.0	334.0	334.0	334.0	334.0	332.8	332.8
5°	335.3	335.3	335.3	335.3	336.6	336.6	336.6	336.6	337.8	337.8	337.8
7.5°	337.8	337.8	339.1	339.1	340.4	340.4	341.6	341.6	342.9	344.2	344.2
10°	342.9	342.9	344.2	344.2	346.7	348.0	349.2	349.2	351.8	351.8	351.8
12.5°	349.2	350.5	351.8	353.0	355.5	356.8	358.1	359.3	360.6	361.9	361.9
15°	359.3	358.1	360.6	363.1	364.4	366.9	368.2	369.5	372.0	374.5	374.5
17.5°	366.9	368.2	369.5	372.0	374.5	378.3	380.9	383.4	385.9	388.4	388.4
20°	377.1	375.8	380.9	384.7	387.2	392.2	396.0	401.1	403.6	406.2	407.4
22.5°	385.9	387.2	389.7	394.8	399.8	407.4	415.0	418.8	422.6	425.1	428.9
25°	397.3	398.6	402.4	407.4	415.0	423.9	432.7	437.8	441.6	446.7	450.4
27.5°	408.7	408.7	415.0	422.6	431.5	442.9	453.0	458.0	464.4	470.7	473.2
30°	421.3	421.3	427.7	437.8	450.4	463.1	472.0	482.1	490.9	497.3	502.3
32.5°	440.3	440.3	447.9	458.0	472.0	487.1	499.8	509.9	521.3	532.7	542.8
35°	461.8	463.1	473.2	485.9	502.3	521.3	532.7	546.6	559.3	578.2	588.4
37.5°	496.0	497.3	508.7	525.1	541.5	561.8	580.8	597.2	616.2	637.7	645.3
40°	546.6	550.4	561.8	569.4	584.6	599.8	627.6	655.4	688.3	717.4	722.5
42.5°	637.7	633.9	626.3	623.8	627.6	644.0	674.4	717.4	775.6	812.3	812.3
45°	673.1	673.1	674.4	671.9	669.3	680.7	716.2	784.5	866.7	917.3	927.5
47.5°	679.5	680.7	692.1	702.2	704.8	717.4	760.4	850.3	960.4	1035.0	1041.3
50°	679.5	682.0	697.2	714.9	727.5	745.3	798.4	908.5	1052.7	1138.8	1155.2
52.5°	676.9	679.5	695.9	717.4	737.7	763.0	831.3	969.2	1135.0	1251.4	1259.0
55°	670.6	673.1	693.4	716.2	738.9	773.1	857.9	1021.1	1214.7	1345.0	1358.9
57.5°	663.0	666.8	688.3	712.4	733.9	775.6	875.6	1061.6	1279.2	1428.5	1453.8
60°	647.8	654.2	678.2	702.2	722.5	766.8	884.4	1093.2	1327.3	1489.3	1514.6
62.5°	617.5	623.8	650.4	676.9	697.2	745.3	879.4	1108.4	1355.1	1527.2	1553.8
65°	579.5	582.0	611.1	639.0	659.2	709.8	857.9	1105.9	1361.5	1539.9	1570.2
66°	560.5	561.8	596.0	622.5	639.0	694.6	845.2	1097.0	1357.7	1538.6	1570.2
67.5°	526.4	532.7	561.8	589.6	608.6	660.5	814.9	1076.8	1342.5	1526.0	1558.8
70°	466.9	472.0	496.0	523.8	544.1	593.4	749.1	1017.3	1286.8	1474.1	1512.0
72.5°	402.4	406.2	431.5	451.7	464.4	517.5	669.3	919.9	1189.4	1376.6	1413.3
75°	334.0	336.6	359.3	373.3	384.7	431.5	563.1	794.6	1036.3	1218.5	1266.6
77.5°	263.2	264.4	283.4	296.1	296.1	336.6	446.7	644.0	850.3	1018.6	1054.0
80°	193.6	192.3	203.7	210.0	213.8	240.4	321.4	473.2	647.8	779.4	813.6
82.5°	126.5	125.3	132.9	135.4	135.4	151.8	202.4	299.9	425.1	528.9	549.1
85°	67.1	69.6	68.3	68.3	68.3	74.7	101.2	156.9	226.5	283.4	297.3
87.5°	11.4	11.4	11.4	12.7	15.2	20.2	26.6	44.3	64.5	87.3	98.7
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°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	332.8	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0
5°	337.8	337.8	337.8	339.1	339.1	339.1	339.1	339.1	339.1	339.1	339.1
7.5°	344.2	344.2	345.4	345.4	345.4	346.7	346.7	345.4	345.4	345.4	345.4
10°	351.8	351.8	353.0	354.3	354.3	355.5	355.5	354.3	354.3	353.0	353.0
12.5°	361.9	363.1	364.4	365.7	366.9	366.9	365.7	364.4	363.1	361.9	361.9
15°	374.5	375.8	377.1	379.6	379.6	379.6	378.3	377.1	374.5	373.3	374.5
17.5°	389.7	391.0	393.5	394.8	396.0	394.8	394.8	393.5	393.5	392.2	392.2
20°	408.7	410.0	413.8	415.0	415.0	416.3	420.1	422.6	426.4	427.7	427.7
22.5°	427.7	430.2	434.0	439.1	441.6	446.7	447.9	450.4	449.2	445.4	445.4
25°	450.4	453.0	460.6	466.9	472.0	474.5	472.0	468.2	461.8	456.8	455.5
27.5°	474.5	478.3	489.7	498.5	501.1	498.5	488.4	479.5	472.0	465.6	463.1
30°	504.9	511.2	523.8	528.9	527.6	517.5	502.3	490.9	479.5	472.0	470.7
32.5°	542.8	549.1	560.5	561.8	554.2	535.2	515.0	499.8	485.9	477.0	475.8
35°	588.4	594.7	601.0	597.2	575.7	551.7	526.4	504.9	490.9	480.8	480.8
37.5°	646.6	650.4	650.4	631.4	598.5	566.9	535.2	509.9	494.7	484.6	483.3
40°	722.5	721.2	703.5	666.8	623.8	580.8	541.5	515.0	496.0	485.9	484.6
42.5°	813.6	804.7	766.8	707.3	647.8	593.4	549.1	516.2	494.7	484.6	483.3
45°	924.9	909.8	841.4	754.1	673.1	604.8	552.9	515.0	490.9	479.5	478.3
47.5°	1035.0	1026.2	932.5	803.5	698.4	617.5	555.5	511.2	483.3	466.9	466.9
50°	1151.4	1129.9	1023.6	862.9	725.0	626.3	555.5	504.9	470.7	453.0	450.4
52.5°	1264.0	1242.5	1116.0	922.4	754.1	635.2	552.9	496.0	459.3	440.3	437.8
55°	1360.2	1342.5	1205.8	989.5	784.5	641.5	549.1	485.9	447.9	430.2	427.7
57.5°	1448.8	1431.1	1284.3	1046.4	813.6	645.3	540.3	473.2	434.0	416.3	415.0
60°	1513.3	1499.4	1351.3	1099.5	837.6	645.3	527.6	458.0	418.8	401.1	399.8
62.5°	1556.3	1542.4	1399.4	1135.0	852.8	636.4	508.7	437.8	399.8	383.4	379.6
65°	1572.8	1560.1	1420.9	1148.9	850.3	618.7	483.3	412.5	375.8	359.3	356.8
66°	1574.0	1560.1	1420.9	1146.4	844.0	608.6	472.0	401.1	365.7	349.2	346.7
67.5°	1563.9	1551.3	1412.1	1133.7	826.2	589.6	449.2	382.1	346.7	330.2	329.0
70°	1517.1	1507.0	1364.0	1085.6	784.5	547.9	411.2	345.4	311.3	299.9	296.1
72.5°	1415.9	1404.5	1267.8	995.8	716.2	490.9	363.1	302.4	274.6	260.7	259.4
75°	1259.0	1253.9	1121.1	876.9	617.5	422.6	307.5	255.6	232.8	222.7	222.7
77.5°	1054.0	1043.9	931.3	725.0	507.4	341.6	246.7	207.5	189.8	180.9	182.2
80°	819.9	812.3	717.4	544.1	383.4	256.9	184.7	158.2	145.5	140.4	137.9
82.5°	561.8	541.5	478.3	360.6	249.3	173.3	127.8	110.1	103.8	102.5	101.2
85°	292.3	299.9	251.8	191.1	135.4	96.2	77.2	70.9	68.3	69.6	69.6
87.5°	96.2	98.7	75.9	58.2	44.3	34.2	29.1	27.8	24.0	26.6	27.8
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)