

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: P675233

Luminaire Tested: **CCW-SA-1A-727-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675233
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-727-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4W distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2308.1 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
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: 25 FT

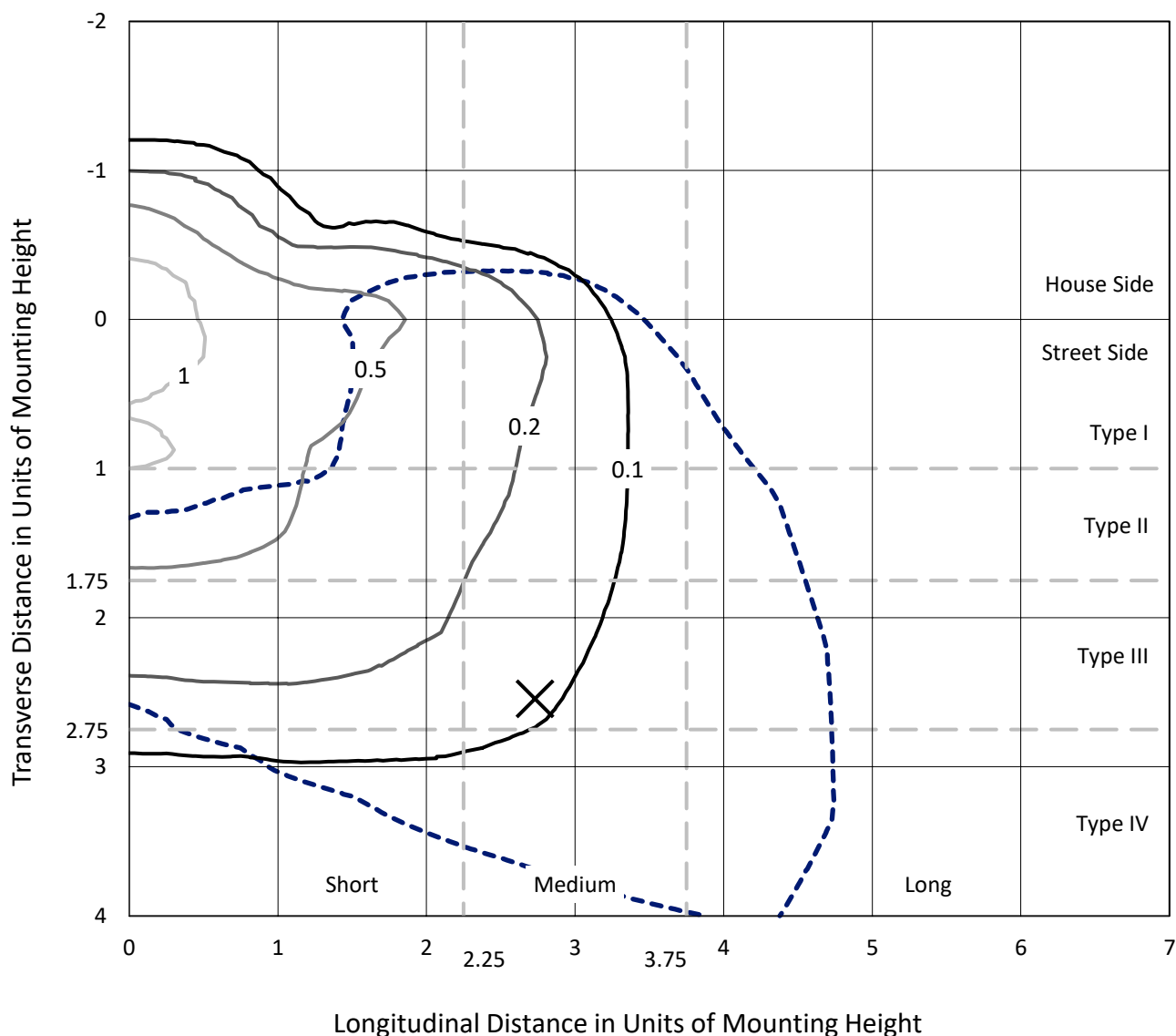
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

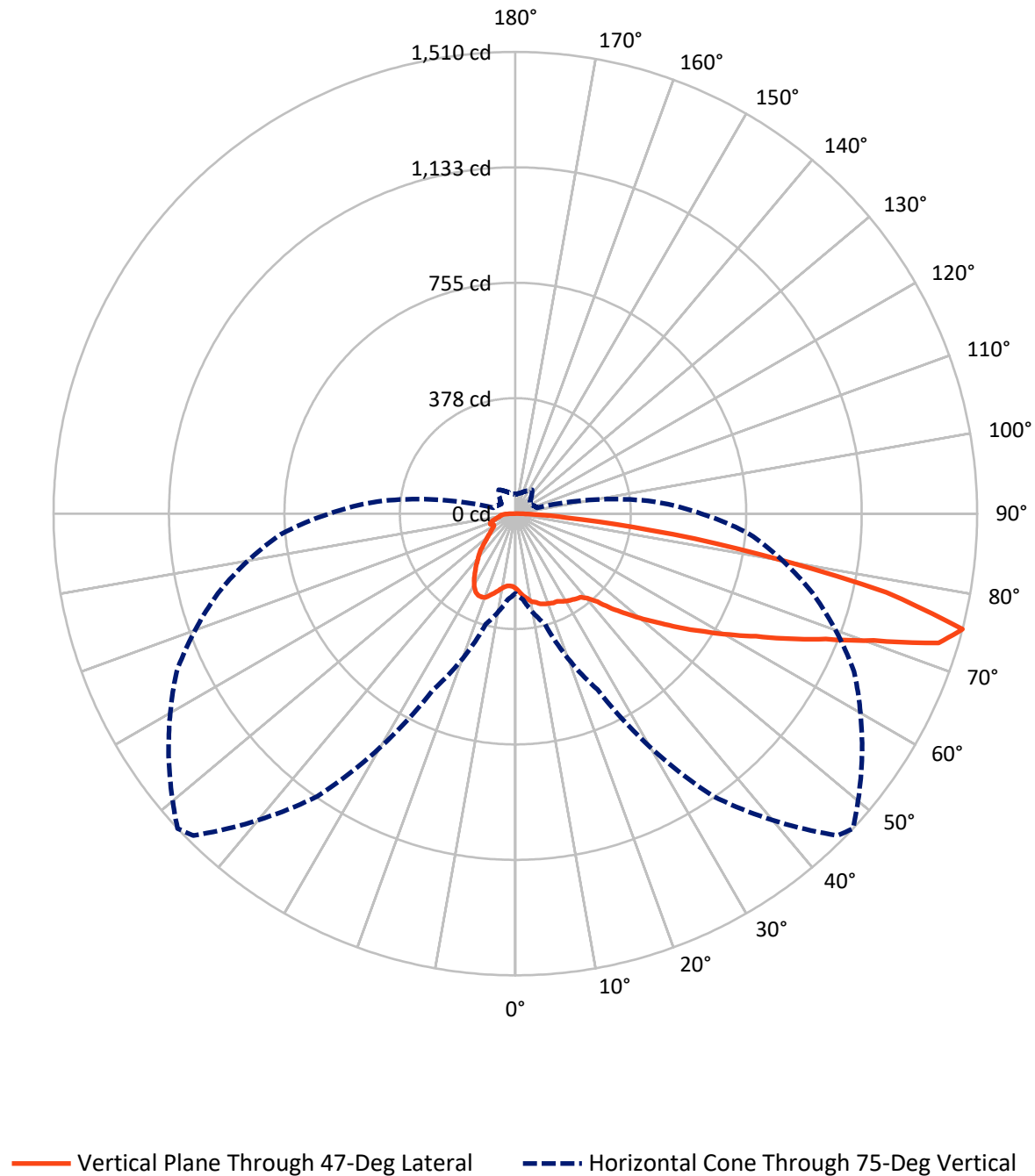
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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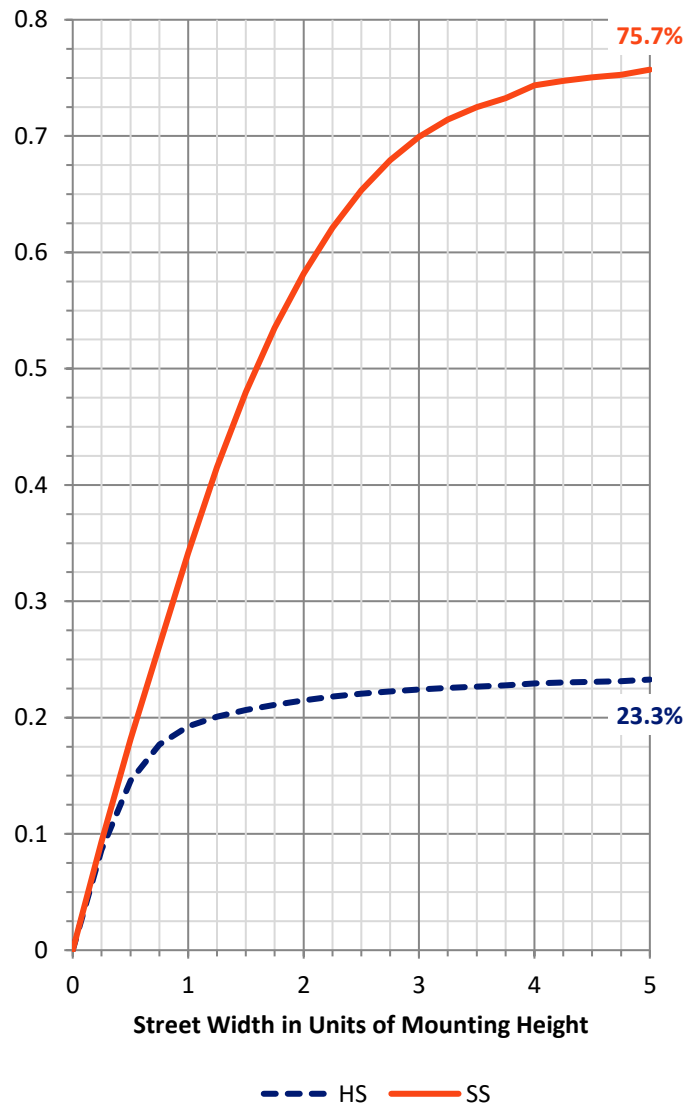
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.0	0.0	552.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	1756.2	0.0	1756.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	2308.1	0.0	2308.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.8	1.1
10°-20°	82.3	3.6
20°-30°	140.9	6.1
30°-40°	197.2	8.5
40°-50°	274.9	11.9
50°-60°	410.9	17.8
60°-70°	592.5	25.7
70°-80°	504.3	21.8
80°-90°	80.3	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°	2308.1	100.0
0°-180°	2308.1	100.0



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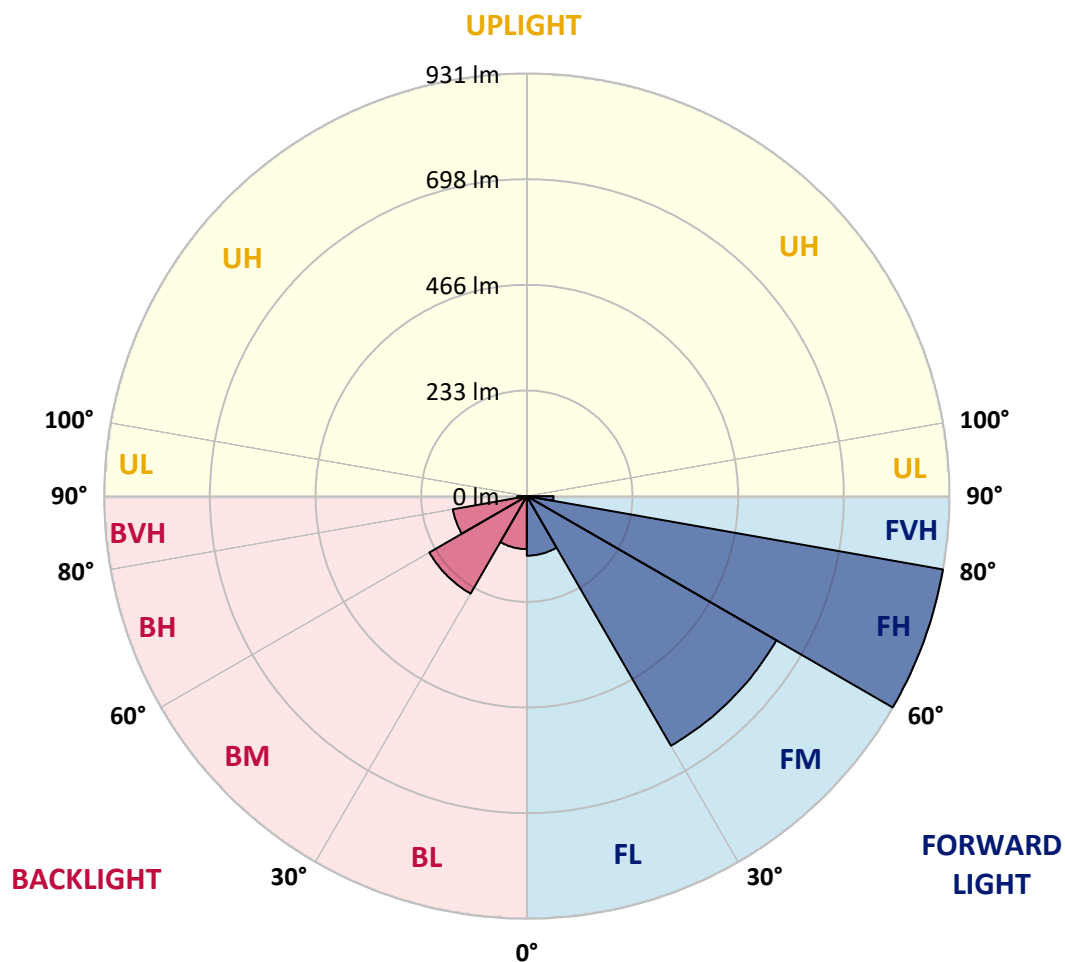
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	131.1	5.7			
FM	(30°-60°)	635.0	27.5			
FH	(60°-80°)	931.2	40.3			G1/1800
FVH	(80°-90°)	58.9	2.6			G1/100
BL	(0°-30°)	116.8	5.1	B1/500		
BM	(30°-60°)	248.1	10.7	B1/1000		
BH	(60°-80°)	165.6	7.2	B1/500		G1/500
BVH	(80°-90°)	21.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1
2.5°	262.8	263.6	263.6	261.9	260.2	256.9	256.9	253.5	251.8	247.6	245.9
5°	287.2	284.7	282.1	281.3	277.1	271.2	270.3	267.0	257.7	253.5	247.6
7.5°	304.9	304.0	303.2	299.8	292.2	283.0	280.4	275.4	266.1	257.7	251.0
10°	319.2	322.6	319.2	311.6	304.0	293.9	293.1	283.8	275.4	265.3	256.9
12.5°	335.2	336.0	330.1	320.9	309.1	300.7	297.3	293.9	284.7	276.2	263.6
15°	346.1	344.5	340.2	327.6	314.1	305.7	306.6	302.3	292.2	286.3	272.9
17.5°	346.1	346.1	339.4	330.1	318.3	310.8	310.8	308.2	301.5	293.1	283.8
20°	339.4	339.4	335.2	330.1	316.7	315.0	313.3	311.6	311.6	304.0	290.6
22.5°	331.0	329.3	331.0	322.6	313.3	315.0	317.5	316.7	314.1	307.4	298.1
25°	322.6	323.4	325.1	319.2	310.8	318.3	317.5	321.7	320.0	315.0	307.4
27.5°	321.7	323.4	324.2	318.3	315.0	321.7	325.1	329.3	330.1	325.1	315.8
30°	334.3	333.5	332.7	325.1	322.6	328.5	331.8	337.7	342.8	331.8	324.2
32.5°	367.2	362.1	357.1	336.9	329.3	333.5	336.9	345.3	346.1	340.2	329.3
35°	419.4	416.0	399.2	363.8	342.8	338.6	341.9	347.8	349.5	345.3	336.9
37.5°	479.2	477.5	453.9	411.0	370.6	350.4	347.0	355.4	362.1	352.9	341.1
40°	538.2	531.4	514.6	472.5	405.9	368.0	363.8	368.0	370.6	363.8	356.2
42.5°	591.2	583.6	579.4	537.3	452.3	397.5	394.1	384.0	391.6	383.2	373.1
45°	635.9	634.2	632.5	596.3	505.3	445.5	443.0	416.9	425.3	418.6	404.3
47.5°	667.9	675.4	672.9	652.7	566.0	496.9	489.3	455.6	468.3	461.5	447.2
50°	705.8	710.0	707.4	694.0	622.4	555.8	541.5	507.0	521.3	520.5	512.9
52.5°	739.4	752.1	737.8	736.9	703.2	619.9	595.4	562.6	586.2	595.4	594.6
55°	779.0	789.1	784.9	783.2	775.7	682.2	660.3	620.7	660.3	673.8	685.5
57.5°	812.7	811.9	827.9	847.2	856.5	753.8	727.7	681.3	741.1	756.3	789.1
60°	827.9	842.2	869.1	918.0	944.1	830.4	803.4	766.4	822.8	834.6	895.2
62.5°	838.0	850.6	902.8	985.4	1000.5	908.7	883.5	846.4	912.1	920.5	1010.6
65°	810.2	822.0	925.6	1010.6	1064.5	992.9	987.0	948.3	1001.4	1006.4	1131.9
67.5°	778.2	790.8	906.2	1042.6	1149.6	1105.0	1095.7	1049.4	1089.8	1083.9	1224.5
70°	721.8	738.6	856.5	1070.4	1243.9	1261.6	1243.1	1177.4	1181.6	1126.0	1228.8
72.5°	549.9	560.9	670.4	960.1	1287.7	1478.9	1446.9	1315.5	1267.5	1134.4	1084.7
75°	261.1	281.3	373.9	635.0	1128.5	1489.0	1510.0	1383.7	1222.0	1006.4	768.9
77.5°	75.8	75.8	113.7	269.5	707.4	1200.1	1239.7	1174.9	1008.1	745.3	404.3
80°	41.3	43.8	59.8	95.2	310.8	757.1	814.4	779.0	593.7	294.8	104.4
82.5°	23.6	24.4	39.6	57.3	141.5	411.8	445.5	404.3	225.7	89.3	48.8
85°	13.5	14.3	22.7	37.9	84.2	151.6	165.1	143.2	91.0	59.8	24.4
87.5°	6.7	6.7	10.9	17.7	43.0	43.0	42.1	51.4	54.7	36.2	10.9
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°	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1
2.5°	245.1	244.2	244.2	240.9	240.0	237.5	237.5	235.8	235.0	237.5	237.5
5°	245.9	241.7	240.9	237.5	238.3	236.7	240.0	238.3	237.5	237.5	236.7
7.5°	247.6	243.4	240.0	237.5	236.7	239.2	243.4	243.4	248.4	245.9	245.9
10°	251.8	249.3	245.1	243.4	243.4	245.9	251.0	254.3	258.6	258.6	256.0
12.5°	261.9	257.7	252.7	250.1	253.5	256.0	261.1	264.4	269.5	271.2	269.5
15°	269.5	265.3	263.6	261.9	264.4	267.8	272.0	275.4	281.3	283.0	282.1
17.5°	279.6	274.6	273.7	274.6	276.2	278.8	281.3	283.8	288.0	288.0	288.0
20°	284.7	283.0	282.1	284.7	288.0	291.4	289.7	288.0	287.2	288.9	288.0
22.5°	293.9	292.2	293.1	295.6	295.6	293.9	291.4	285.5	283.8	285.5	283.8
25°	302.3	300.7	300.7	299.0	298.1	292.2	287.2	282.1	276.2	278.8	277.9
27.5°	310.8	309.9	309.9	303.2	294.8	284.7	277.9	272.0	268.7	272.9	270.3
30°	320.9	321.7	317.5	301.5	281.3	270.3	262.8	261.9	261.1	263.6	262.8
32.5°	330.1	331.0	324.2	299.0	271.2	250.1	242.6	243.4	247.6	251.8	256.0
35°	335.2	339.4	331.0	290.6	251.0	227.4	219.0	226.5	234.1	240.0	244.2
37.5°	344.5	355.4	341.1	281.3	233.3	207.2	201.3	203.8	213.1	222.3	226.5
40°	357.9	370.6	343.6	263.6	209.7	187.0	183.6	184.4	187.8	193.7	197.9
42.5°	381.5	395.0	346.1	240.9	186.1	174.3	165.1	162.5	160.0	160.0	159.2
45°	416.0	428.7	342.8	212.2	162.5	154.1	147.4	141.5	134.8	123.8	125.5
47.5°	466.6	476.7	345.3	187.0	140.6	133.9	128.9	122.1	112.0	100.2	99.4
50°	543.2	528.1	341.9	160.9	124.6	118.7	114.5	105.3	93.5	85.1	84.2
52.5°	632.5	602.2	338.6	139.0	111.2	106.1	102.7	92.6	81.7	77.5	76.6
55°	740.3	696.5	343.6	119.6	101.1	96.9	93.5	84.2	75.8	72.4	71.6
57.5°	867.5	798.4	371.4	104.4	90.1	88.4	87.6	80.0	72.4	69.9	69.1
60°	987.0	896.1	389.9	93.5	80.0	81.7	83.4	80.0	71.6	69.9	69.9
62.5°	1087.3	976.9	360.5	84.2	75.0	80.0	87.6	85.1	81.7	83.4	81.7
65°	1175.7	1004.7	269.5	79.2	72.4	84.2	96.9	96.0	88.4	90.1	89.3
67.5°	1190.9	971.0	176.0	75.0	70.7	92.6	108.6	98.5	83.4	83.4	80.9
70°	1127.7	880.9	117.9	70.7	69.9	92.6	111.2	92.6	78.3	78.3	75.0
72.5°	925.6	704.1	91.0	66.5	64.0	82.5	105.3	87.6	73.3	71.6	65.7
75°	608.1	453.9	74.1	63.2	55.6	72.4	95.2	80.9	69.9	64.8	62.3
77.5°	298.1	203.8	62.3	55.6	48.0	63.2	86.7	76.6	65.7	60.6	59.0
80°	81.7	73.3	52.2	48.8	40.4	54.7	81.7	73.3	61.5	56.4	53.9
82.5°	46.3	45.5	42.1	39.6	33.7	54.7	82.5	73.3	58.1	57.3	48.8
85°	25.3	27.0	30.3	29.5	26.1	48.8	78.3	64.0	47.2	39.6	39.6
87.5°	10.1	12.6	15.2	16.8	17.7	36.2	59.0	48.8	36.2	30.3	30.3
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)