

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: P676894

Luminaire Tested: **CCW-SA-1A-830-U-SL2-HSS**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P676894
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-830-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

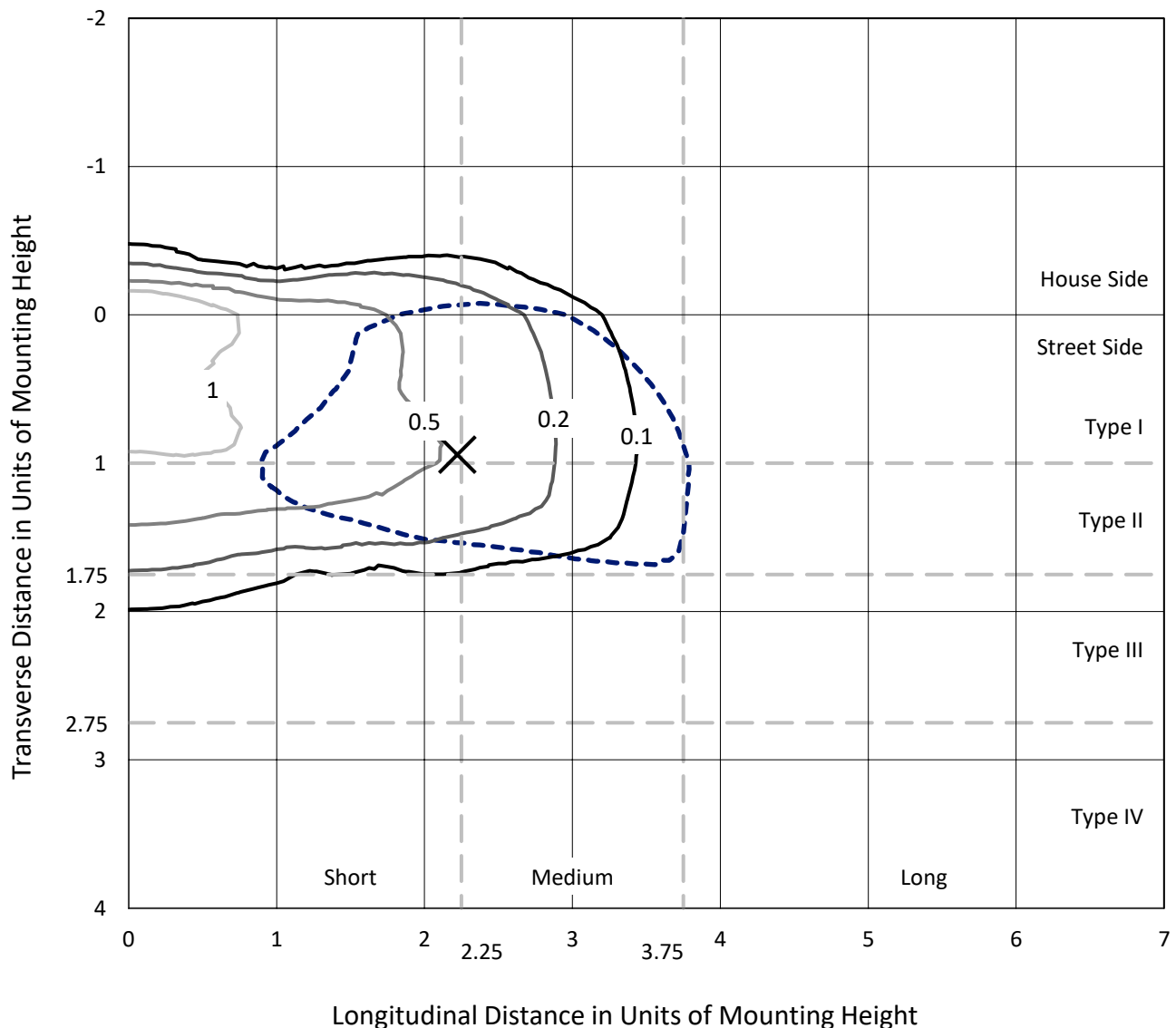
Lumens per Lamp: N/A
Luminaire Lumens: 1748.1 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): 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

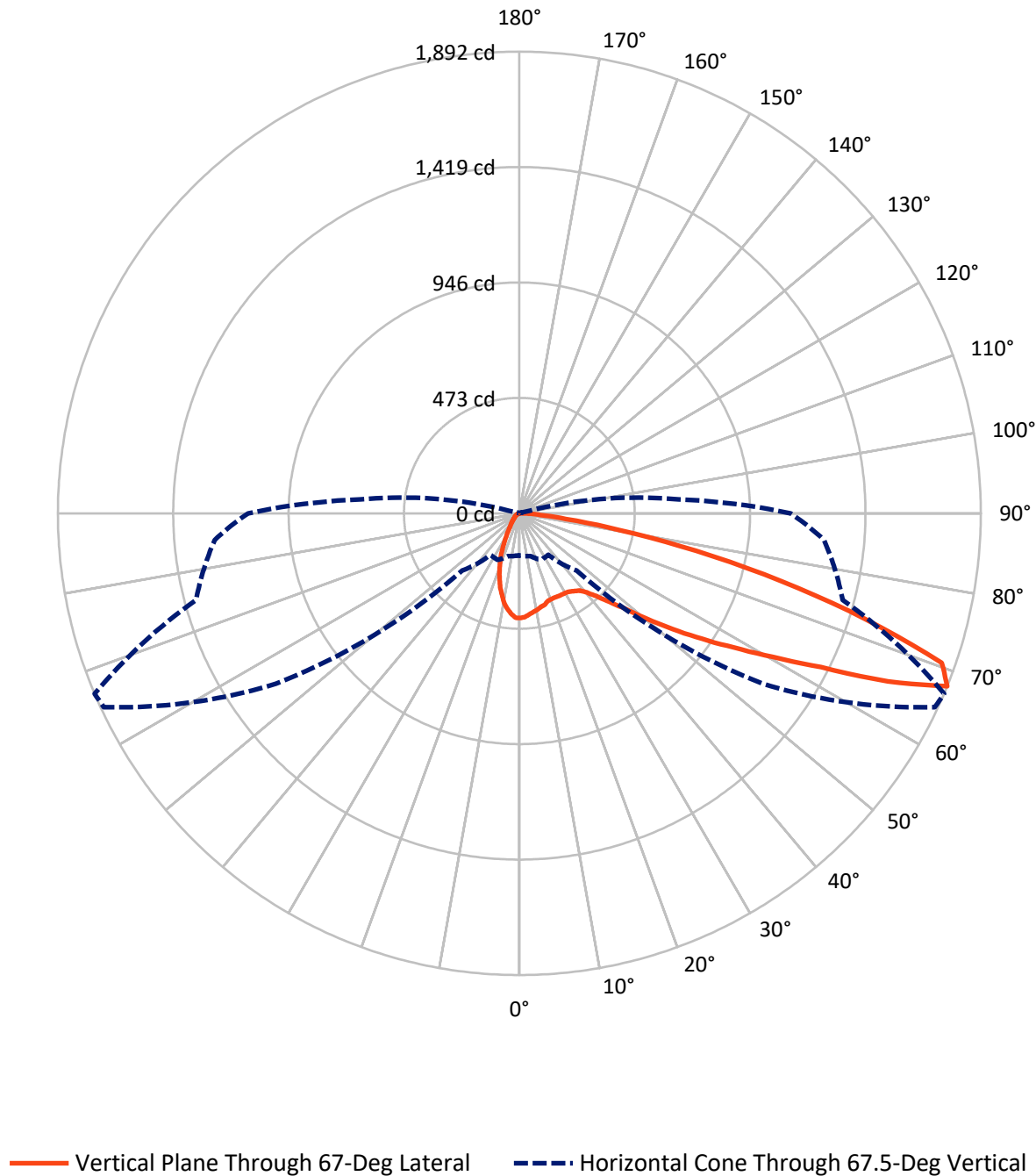
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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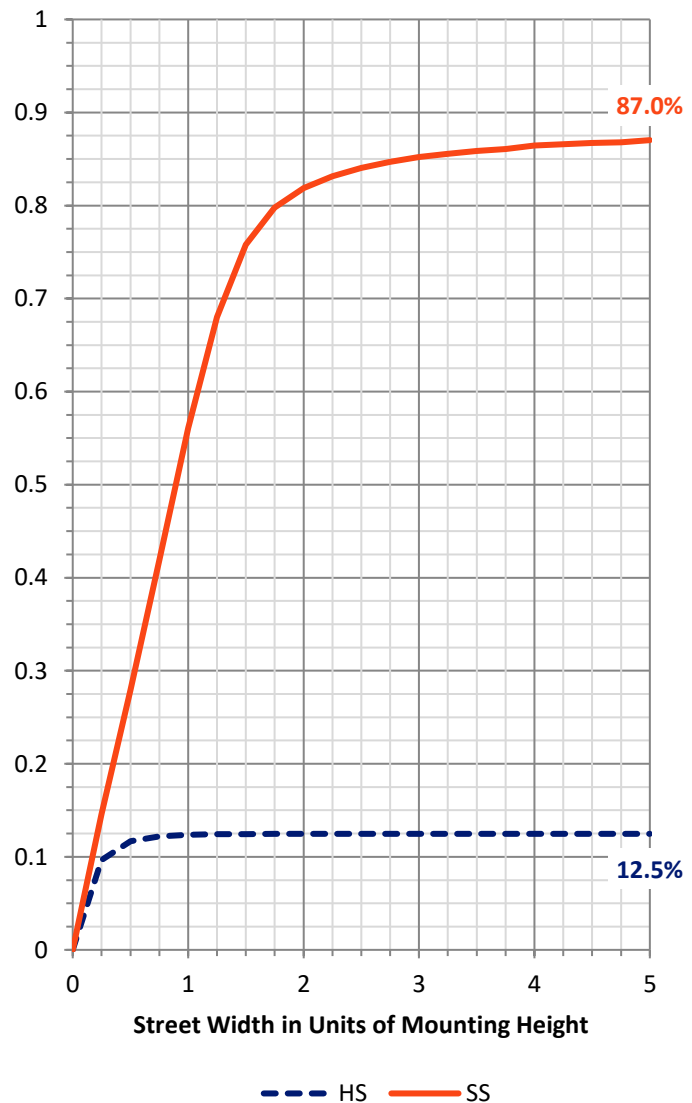
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	220.0	0.0	220.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	1528.1	0.0	1528.1
	% Fixture	87.4	0.0	87.4
Total	Lumens	1748.1	0.0	1748.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	2.1
10°-20°	80.3	4.6
20°-30°	114.1	6.5
30°-40°	166.2	9.5
40°-50°	257.2	14.7
50°-60°	394.7	22.6
60°-70°	427.9	24.5
70°-80°	241.4	13.8
80°-90°	30.3	1.7
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°	1748.1	100.0
0°-180°	1748.1	100.0

Coefficient of Utilization



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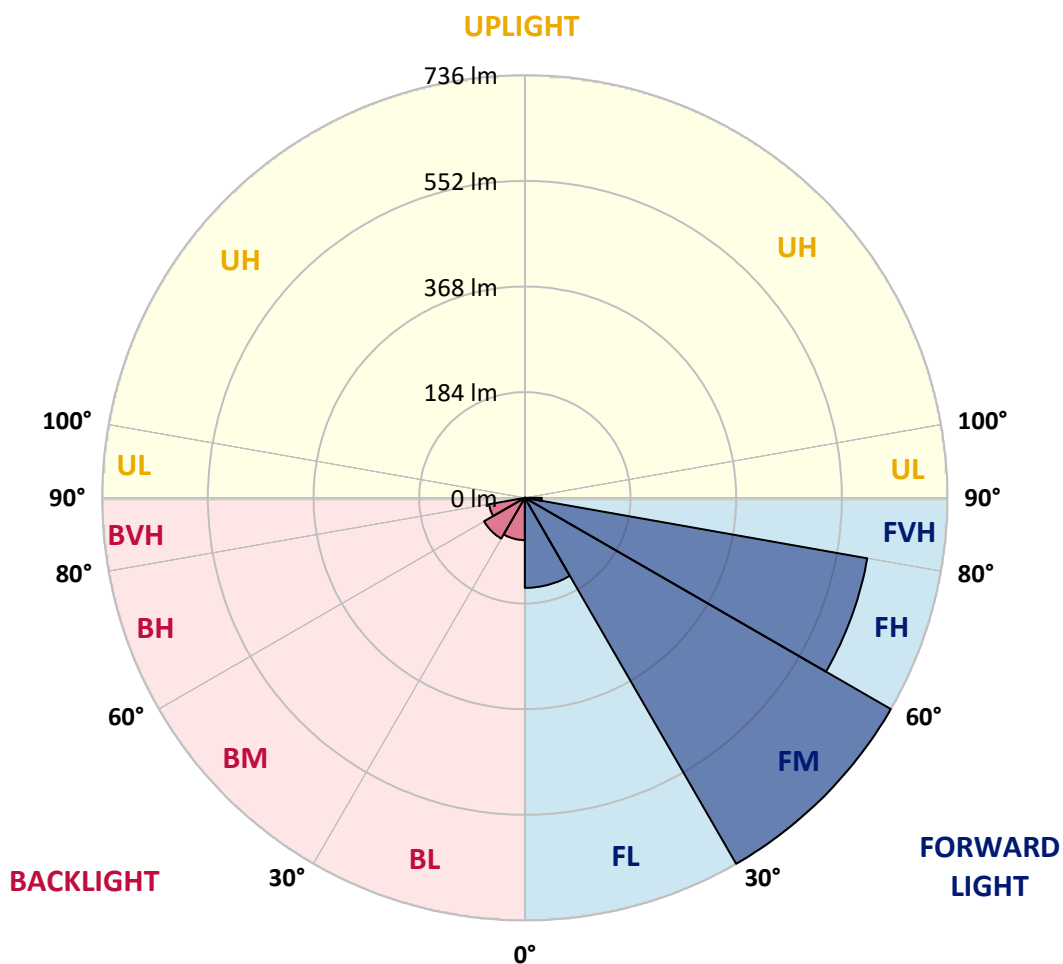
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	156.9	9.0			
FM	(30°-60°)	736.1	42.1			
FH	(60°-80°)	605.7	34.6			G0/660
FVH	(80°-90°)	29.5	1.7			G1/100
BL	(0°-30°)	73.6	4.2	B0/110		
BM	(30°-60°)	81.9	4.7	B0/220		
BH	(60°-80°)	63.5	3.6	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8
2.5°	410.3	412.4	415.3	419.5	422.5	420.8	422.0	429.2	425.4	428.8	427.1
5°	387.5	389.6	393.8	393.4	396.8	403.1	411.5	420.8	416.6	426.7	430.5
7.5°	363.9	363.1	363.1	371.9	379.1	387.9	392.6	407.7	408.1	417.0	426.3
10°	342.4	345.0	349.2	352.5	359.3	371.9	385.4	397.2	401.8	419.5	422.0
12.5°	329.4	330.6	335.7	338.6	347.5	359.7	374.0	389.2	393.0	411.1	423.3
15°	323.9	326.9	328.5	334.0	338.6	350.0	360.6	377.8	388.8	403.1	418.3
17.5°	328.1	326.9	327.7	329.4	334.9	345.0	356.3	373.6	377.4	401.4	424.2
20°	333.6	334.0	331.5	330.6	329.4	339.1	348.3	370.7	374.9	401.4	427.9
22.5°	348.3	343.7	348.3	341.6	334.9	339.1	347.9	371.1	374.0	401.0	431.7
25°	366.4	367.3	368.6	354.2	344.5	341.6	350.9	372.3	374.9	404.4	433.4
27.5°	392.1	395.9	389.6	382.5	363.1	348.3	350.4	371.5	376.1	402.7	437.6
30°	426.7	423.7	424.6	408.1	389.2	366.0	360.1	373.6	377.0	404.8	445.6
32.5°	456.6	453.2	459.1	453.2	423.3	391.3	371.5	377.8	381.6	409.8	452.4
35°	475.1	479.3	488.6	494.9	469.6	424.2	390.5	389.2	390.9	412.4	457.4
37.5°	503.8	511.3	518.9	534.9	513.0	464.6	420.4	403.9	401.0	424.6	460.0
40°	534.9	532.8	555.1	574.1	573.3	521.5	462.1	430.0	425.8	443.9	476.8
42.5°	561.0	558.9	583.8	615.0	618.3	576.2	509.7	467.1	463.3	473.9	497.4
45°	595.2	596.8	626.3	663.4	675.6	648.7	574.1	520.2	518.1	514.7	536.6
47.5°	625.5	634.8	660.0	703.8	748.1	723.6	649.9	597.7	582.9	575.4	597.3
50°	646.5	655.0	685.7	732.5	813.3	828.9	735.0	680.2	680.7	662.1	673.9
52.5°	646.5	646.1	671.0	732.5	858.8	938.9	848.7	784.3	787.7	768.3	769.1
55°	584.2	582.9	613.3	678.6	853.8	1044.6	1021.0	916.1	907.7	870.2	874.0
57.5°	470.5	473.4	496.6	574.9	788.1	1093.9	1226.1	1064.4	1035.7	958.2	958.2
60°	343.3	340.8	358.0	412.8	631.4	1075.3	1394.6	1239.2	1194.1	1031.1	1020.2
62.5°	261.1	260.7	265.4	283.9	400.6	937.6	1467.1	1461.6	1388.3	1102.7	1087.1
65°	211.0	211.9	218.2	231.2	244.7	639.4	1428.7	1726.9	1660.0	1209.3	1158.3
67.5°	172.3	174.4	182.0	210.2	207.2	331.1	1216.9	1879.0	1891.6	1371.9	1253.9
70°	132.7	136.0	144.9	184.9	199.7	220.3	843.7	1803.2	1836.9	1473.0	1196.2
72.5°	90.1	89.7	108.7	149.9	201.8	201.8	469.6	1452.3	1484.3	1358.0	1039.1
75°	48.9	51.8	72.0	113.3	184.9	195.0	267.5	1062.7	1107.8	1056.0	803.7
77.5°	26.5	27.0	40.0	74.1	153.7	186.2	178.6	722.8	740.5	636.9	440.2
80°	13.9	14.3	21.1	48.4	106.1	172.7	148.7	430.9	414.0	244.3	145.3
82.5°	6.3	6.7	10.5	30.3	67.8	136.0	128.5	208.1	192.1	68.2	44.2
85°	2.5	2.5	4.6	18.1	39.6	67.0	109.9	104.5	87.2	20.6	21.9
87.5°	0.8	0.8	1.3	7.2	16.0	40.0	58.5	55.2	37.9	7.6	11.8
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°	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8
2.5°	425.4	430.0	428.8	427.9	419.9	419.1	418.3	410.7	413.2	406.9	411.1
5°	427.9	430.5	423.7	411.1	399.7	387.1	377.4	370.7	358.4	353.8	353.0
7.5°	425.4	425.4	411.5	391.3	369.0	348.3	322.2	303.7	289.8	279.3	283.0
10°	422.0	417.0	402.7	366.9	326.4	295.3	257.8	230.4	209.8	203.0	198.8
12.5°	422.0	413.2	381.2	332.3	280.1	232.9	188.3	152.5	132.7	120.9	119.2
15°	418.3	405.2	365.6	299.9	235.0	171.0	120.0	89.3	72.4	67.8	66.1
17.5°	419.1	403.5	342.4	261.6	182.4	113.7	73.3	56.4	52.2	50.1	50.5
20°	420.8	403.5	321.8	224.1	131.4	70.8	50.5	47.6	45.5	44.6	45.1
22.5°	426.3	395.5	300.7	185.8	88.9	51.0	44.6	41.7	40.0	38.8	38.3
25°	427.1	394.2	280.5	147.8	61.1	43.0	39.2	35.8	33.7	32.0	31.6
27.5°	425.8	388.8	252.3	109.9	45.9	38.3	33.3	29.9	27.0	25.7	25.3
30°	430.5	378.7	228.3	79.2	38.8	33.3	28.2	24.4	21.9	20.2	20.2
32.5°	430.9	369.8	201.8	56.4	35.4	29.5	24.0	19.8	17.3	16.4	16.4
35°	431.3	361.8	172.3	43.0	31.6	25.3	19.8	16.4	14.7	13.5	13.5
37.5°	432.6	355.9	145.3	36.2	28.2	21.5	16.4	13.5	11.8	11.4	11.4
40°	435.1	347.9	117.1	32.0	24.4	18.1	13.9	11.4	9.7	9.3	8.8
42.5°	441.8	345.8	93.5	28.6	21.9	15.2	11.4	9.3	8.0	7.2	6.7
45°	469.6	351.3	72.4	26.5	18.5	12.6	9.7	7.6	5.9	5.5	5.1
47.5°	515.1	369.4	57.3	23.6	15.6	10.5	8.0	5.9	4.6	4.2	3.8
50°	584.2	410.7	46.8	21.1	13.1	8.8	6.3	4.6	3.4	2.9	2.9
52.5°	674.8	466.3	40.4	18.5	10.5	7.6	5.1	3.4	2.5	2.1	2.1
55°	767.4	532.0	37.9	16.0	8.8	6.3	3.8	2.5	1.7	1.3	1.3
57.5°	852.5	574.5	36.6	13.1	7.6	4.6	2.9	1.7	0.8	0.4	0.4
60°	905.6	605.7	32.9	10.5	5.9	3.8	2.1	0.8	0.4	0.0	0.0
62.5°	975.5	637.3	27.0	8.0	4.2	2.5	1.3	0.4	0.0	0.0	0.0
65°	1067.8	672.7	21.1	6.3	3.4	1.7	0.8	0.4	0.0	0.0	0.0
67.5°	1112.0	654.1	14.3	4.6	2.1	0.8	0.4	0.0	0.0	0.0	0.0
70°	1023.5	550.9	10.1	3.4	1.3	0.4	0.4	0.0	0.0	0.0	0.0
72.5°	860.5	431.7	7.6	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0
75°	634.3	270.0	5.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	336.5	100.7	4.2	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.4	29.5	2.9	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	8.8	1.7	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	3.4	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	1.3	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
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)