

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: P676606

Luminaire Tested: **CCW-SA-1A-830-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676606
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-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

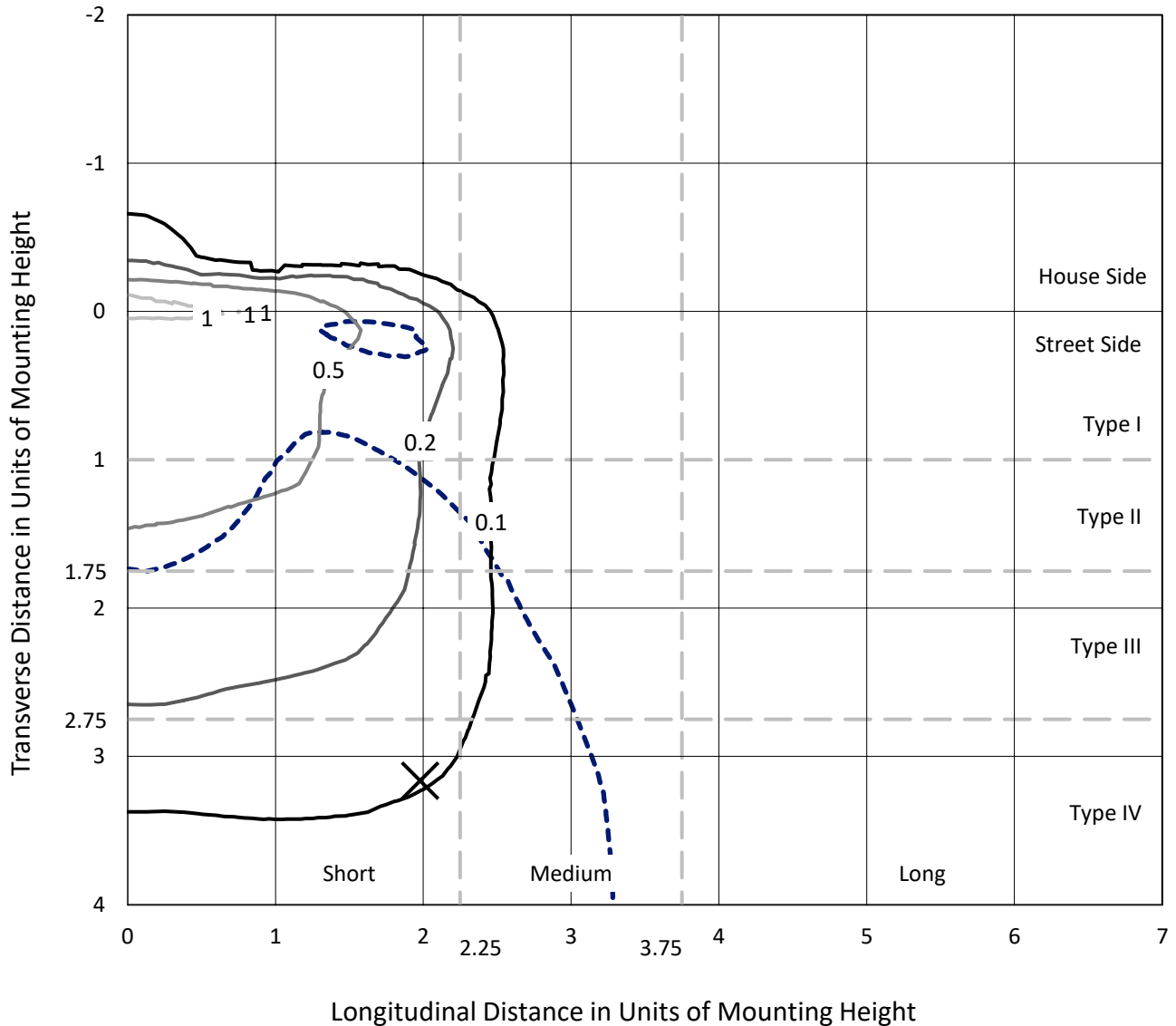
Lumens per Lamp: N/A
Luminaire Lumens: 1560.9 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

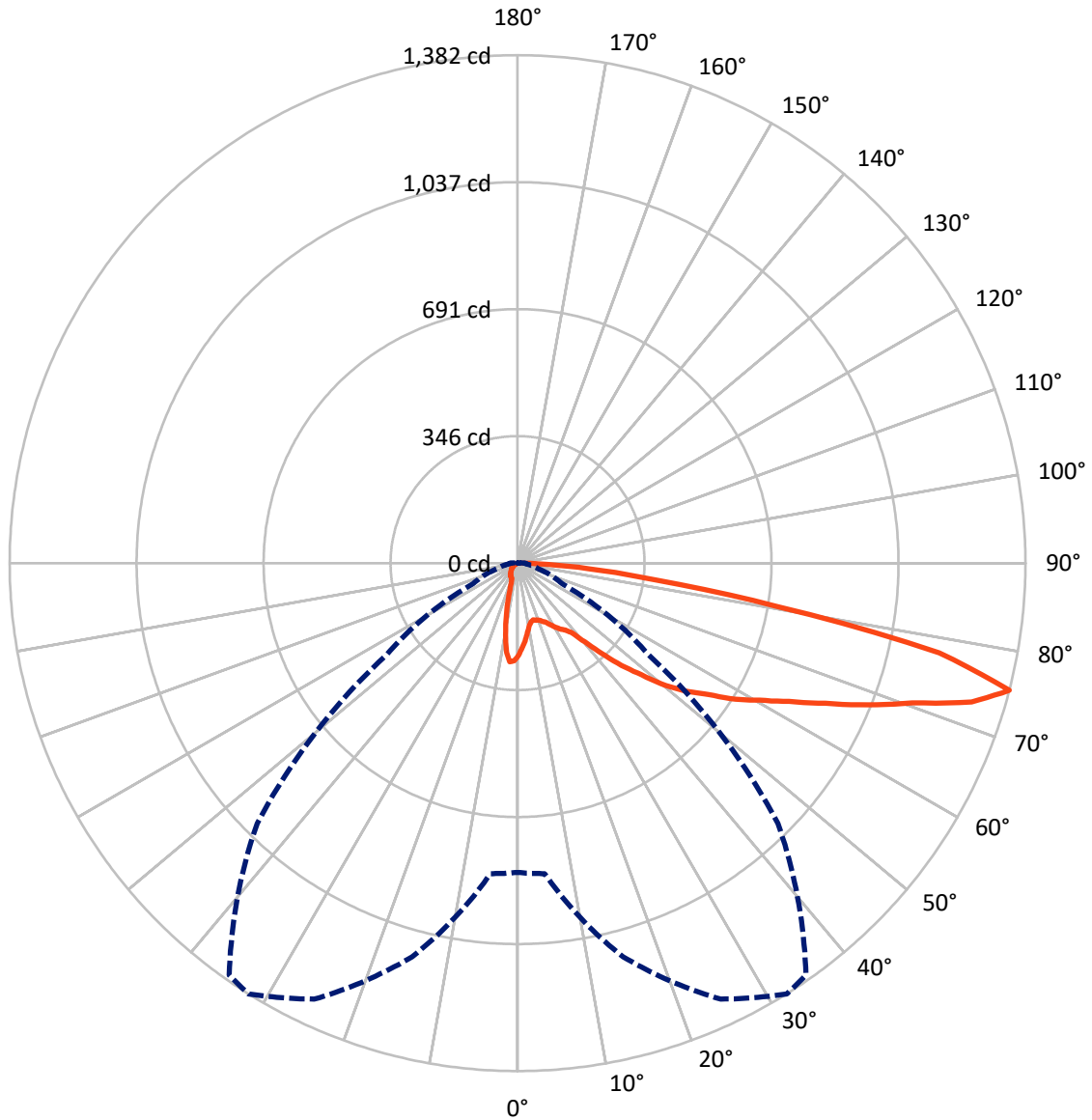
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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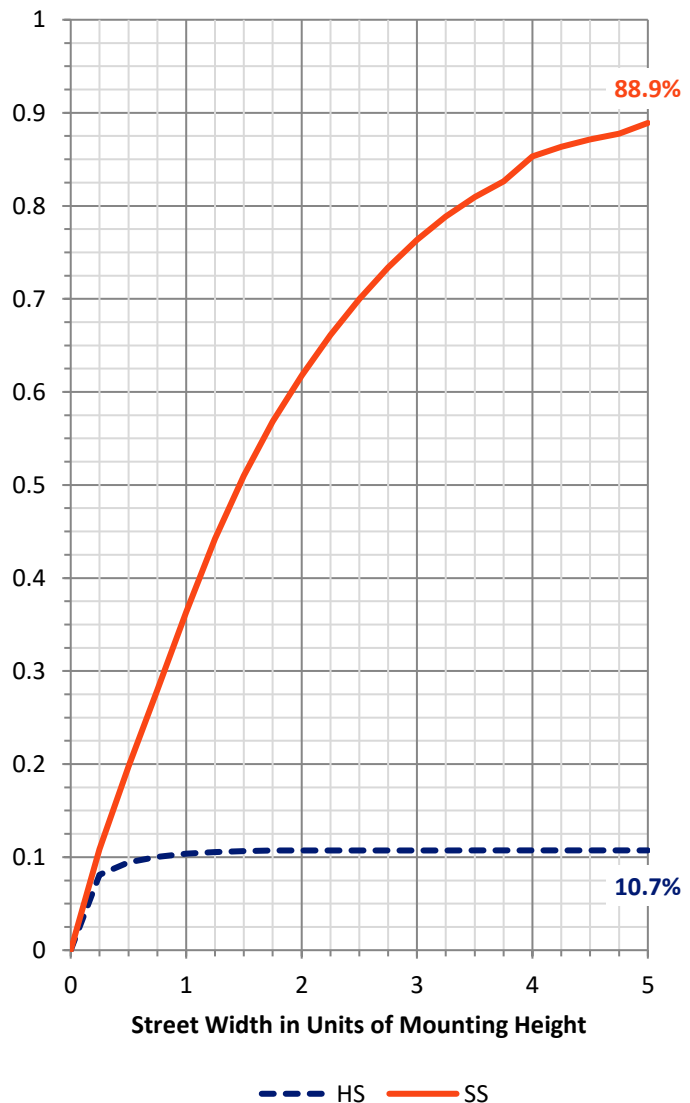
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	168.6	0.0	168.6
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1392.3	0.0	1392.3
	% Fixture	89.2	0.0	89.2
Total	Lumens	1560.9	0.0	1560.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	1.4
10°-20°	50.3	3.2
20°-30°	75.3	4.8
30°-40°	115.6	7.4
40°-50°	202.1	12.9
50°-60°	315.9	20.2
60°-70°	408.4	26.2
70°-80°	332.7	21.3
80°-90°	38.5	2.5
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°	1560.9	100.0
0°-180°	1560.9	100.0



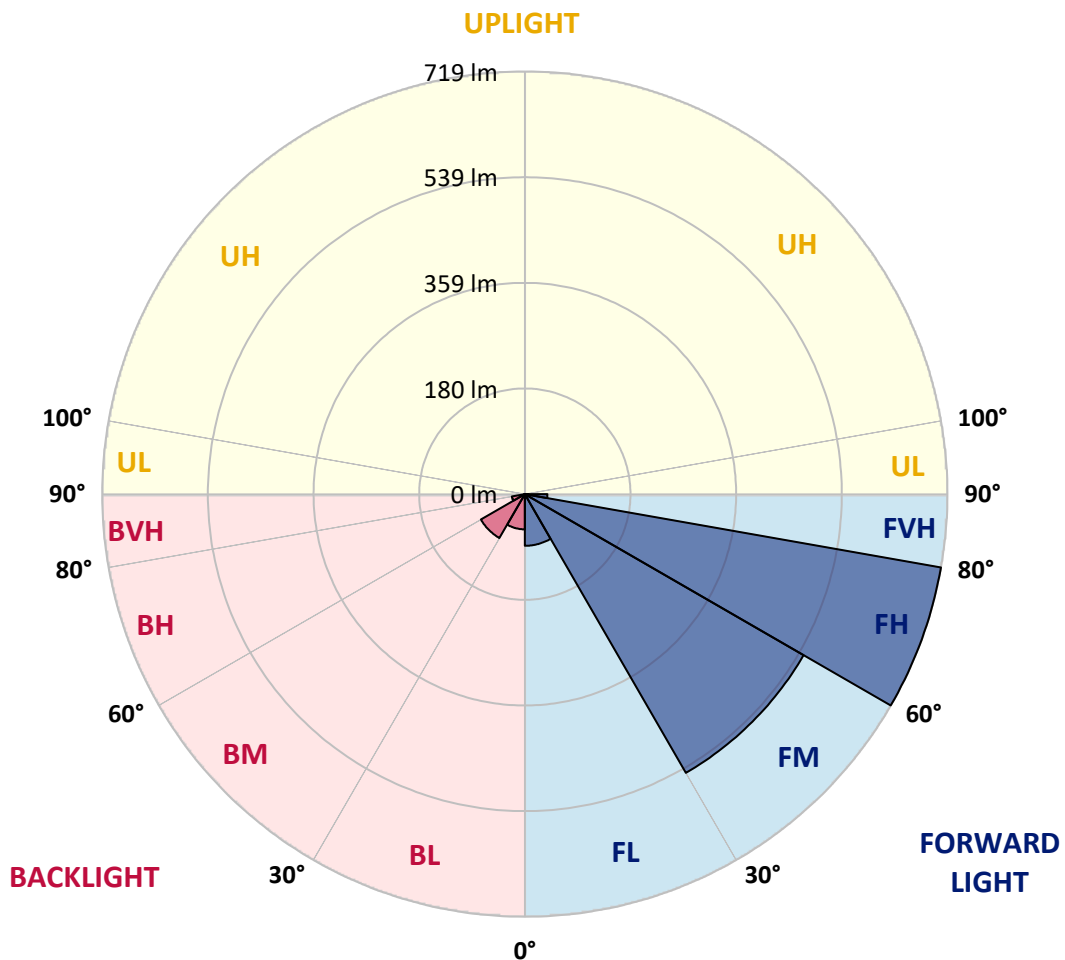
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	87.8	5.6			
FM (30°-60°)	547.3	35.1			
FH (60°-80°)	718.7	46.0			G1/1800
FVH (80°-90°)	38.5	2.5			G1/100
BL (0°-30°)	59.9	3.8	B0/110		
BM (30°-60°)	86.3	5.5	B0/220		
BH (60°-80°)	22.4	1.4	B0/110		G0/110
BVH (80°-90°)	0.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0
2.5°	226.0	229.2	228.8	230.8	231.2	232.4	235.2	235.2	243.2	248.8	252.4
5°	205.6	203.6	204.4	206.8	212.8	212.4	219.2	222.8	232.4	240.4	248.8
7.5°	180.4	180.0	181.6	187.2	191.6	195.2	202.4	211.6	224.4	236.4	251.2
10°	164.4	163.6	166.8	168.4	173.6	176.0	187.2	201.6	216.8	234.0	251.2
12.5°	160.8	158.0	159.6	159.2	164.0	165.2	176.0	193.6	212.0	233.2	254.4
15°	162.8	160.8	159.2	159.2	160.4	161.2	172.8	188.4	209.2	234.4	261.6
17.5°	169.2	168.0	163.2	158.4	163.6	163.6	170.8	187.2	209.6	238.0	270.4
20°	176.8	175.6	167.2	161.6	165.2	169.2	176.8	190.0	210.8	240.8	284.1
22.5°	185.2	185.2	173.6	167.2	172.0	172.4	186.0	198.8	215.6	248.0	292.9
25°	195.6	194.8	183.6	176.4	178.0	182.4	194.8	208.4	224.4	258.0	309.3
27.5°	209.2	208.0	194.8	187.6	189.6	194.4	208.4	222.0	232.4	262.0	323.3
30°	220.4	219.2	208.4	197.6	202.0	206.4	222.8	234.8	242.4	269.6	339.3
32.5°	222.8	220.8	213.6	208.8	213.6	222.0	234.8	247.2	258.8	288.9	369.7
35°	250.4	243.2	224.4	216.8	224.0	226.8	248.0	270.0	281.2	304.1	403.7
37.5°	303.3	296.5	271.6	250.4	240.4	243.6	271.2	298.5	309.3	332.5	440.9
40°	368.1	356.9	330.5	302.1	281.6	277.6	295.7	335.7	346.1	368.1	489.7
42.5°	442.1	431.3	390.5	356.9	336.1	330.9	333.7	378.9	387.7	400.9	521.7
45°	495.3	489.7	443.7	413.7	397.3	391.7	384.9	426.1	437.3	441.7	568.1
47.5°	526.1	522.1	496.5	476.1	454.1	448.1	452.5	491.7	484.1	487.7	612.5
50°	567.3	556.9	522.1	528.5	524.1	522.5	530.1	547.3	536.1	525.7	660.9
52.5°	600.5	582.1	557.7	573.3	580.1	586.1	612.9	625.7	575.7	559.7	692.1
55°	620.9	603.3	609.7	624.1	631.3	658.9	690.5	680.9	601.7	586.9	733.7
57.5°	639.3	640.5	657.7	662.1	698.9	703.7	764.5	733.3	620.1	611.7	750.1
60°	683.7	679.3	693.3	721.7	756.9	783.7	841.7	768.5	629.3	624.5	745.7
62.5°	763.7	736.5	741.3	777.3	828.9	858.2	886.2	784.5	626.9	626.5	732.5
65°	865.4	834.1	819.7	853.4	920.2	961.4	936.2	802.5	610.9	622.1	683.3
67.5°	949.8	950.2	923.4	942.2	1029.4	1038.2	983.4	798.9	584.1	587.3	563.3
70°	1047.0	1060.2	1036.6	1095.4	1139.0	1144.6	1037.4	769.3	526.5	442.9	323.7
72.5°	1071.8	1078.6	1152.2	1242.6	1291.8	1293.4	1090.6	670.5	346.5	195.6	100.4
75°	841.7	848.2	1109.0	1309.0	1382.2	1368.2	1001.8	435.3	134.8	57.2	24.0
77.5°	469.7	471.7	688.5	1058.2	1172.6	1116.2	701.7	169.6	54.4	32.8	11.2
80°	128.4	150.8	255.2	521.7	716.1	702.9	334.1	55.2	35.2	25.6	5.2
82.5°	30.8	33.2	82.0	230.8	378.5	394.9	99.6	28.0	24.4	21.2	2.8
85°	11.2	12.4	25.2	112.4	194.4	178.4	30.0	14.0	18.0	16.4	1.2
87.5°	4.0	4.0	8.0	36.8	56.8	42.8	10.0	4.8	9.2	10.0	0.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0
2.5°	252.8	252.8	258.4	263.2	264.8	266.8	264.8	269.2	268.8	266.8	267.6
5°	253.2	260.4	265.2	268.4	270.0	269.6	270.4	265.6	262.8	260.8	258.8
7.5°	255.2	262.0	270.8	270.0	265.6	256.4	249.2	236.4	224.0	223.6	221.6
10°	262.0	268.0	273.2	270.0	254.0	226.0	203.2	186.0	170.4	163.2	164.0
12.5°	266.8	278.0	275.6	259.2	226.0	189.2	155.6	130.4	116.4	103.2	103.2
15°	276.8	280.8	280.0	243.6	191.6	147.6	106.8	81.2	66.4	60.4	59.6
17.5°	286.5	290.9	277.2	220.0	157.6	99.2	64.8	50.4	48.4	47.6	48.0
20°	298.5	298.9	274.8	196.4	118.4	62.8	46.4	45.2	45.6	45.2	45.2
22.5°	311.3	314.1	266.4	163.2	78.8	45.6	43.2	43.6	43.6	43.6	44.8
25°	328.1	323.7	253.2	131.6	51.6	42.0	42.0	42.4	42.4	42.4	42.8
27.5°	339.3	333.3	236.4	94.8	40.4	39.6	40.4	40.4	41.2	41.2	41.2
30°	362.5	346.9	215.2	61.2	36.4	37.6	38.4	39.2	39.6	40.4	40.8
32.5°	380.5	358.9	188.8	40.8	33.2	34.0	36.0	37.6	39.2	38.8	38.8
35°	413.3	378.5	164.4	32.4	30.4	30.4	32.4	35.2	37.6	38.4	38.4
37.5°	450.9	394.5	130.4	29.6	28.0	28.0	29.2	32.4	35.6	37.2	36.4
40°	482.1	412.9	96.4	27.6	26.0	26.0	26.8	29.2	32.8	35.6	36.0
42.5°	504.1	426.5	65.2	25.6	24.4	24.0	25.2	26.4	29.2	33.2	34.0
45°	524.1	433.7	40.4	23.6	22.8	22.8	22.8	24.0	26.0	29.6	30.4
47.5°	559.7	441.7	29.2	22.0	20.8	21.2	21.6	22.0	23.6	24.4	24.8
50°	589.7	447.7	24.0	20.4	19.6	20.0	20.0	20.0	20.8	19.6	19.6
52.5°	612.5	441.7	20.4	18.8	18.0	18.4	18.0	18.0	17.2	15.6	15.6
55°	629.3	430.9	16.4	17.2	17.2	17.2	16.4	15.2	13.6	12.4	12.4
57.5°	633.7	412.5	12.8	14.4	15.6	15.6	14.0	12.4	10.4	9.2	8.8
60°	626.9	372.5	9.6	10.4	12.0	12.4	11.2	9.2	7.2	6.0	6.0
62.5°	602.5	340.9	7.6	6.8	8.8	9.2	8.0	6.0	4.0	2.8	2.4
65°	556.1	292.1	5.6	4.8	6.0	6.4	5.2	2.8	1.2	0.4	0.0
67.5°	446.1	220.0	3.6	3.2	4.0	4.0	2.4	0.8	0.0	0.0	0.0
70°	246.8	123.6	2.4	1.6	2.0	1.2	0.4	0.0	0.0	0.0	0.0
72.5°	71.2	35.2	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.2	8.4	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.4	3.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0	0.0	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)