

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: P676529

Luminaire Tested: **CCW-SA-1A-727-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676529  
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-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

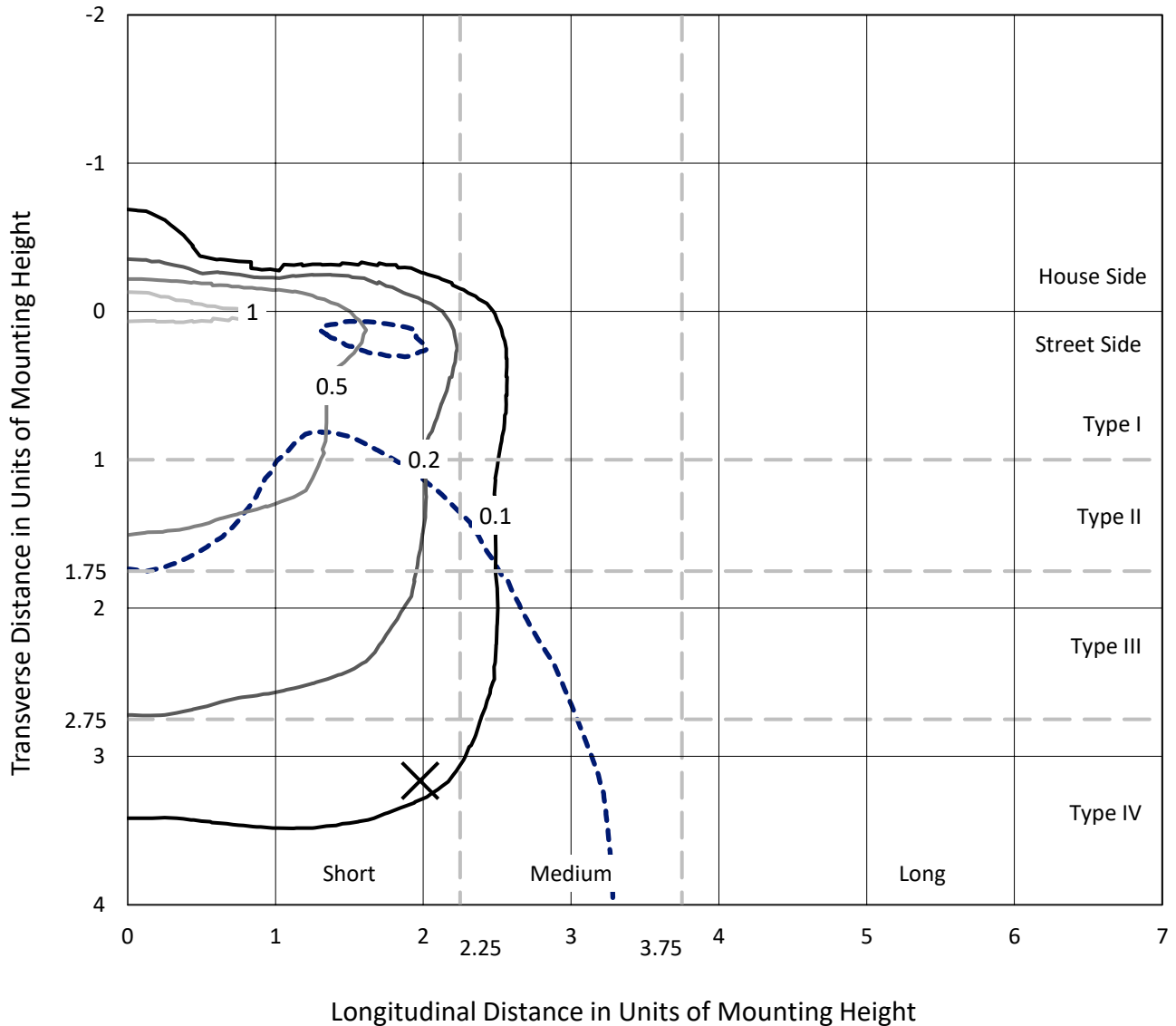
Lumens per Lamp: N/A  
Luminaire Lumens: 1642.9 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

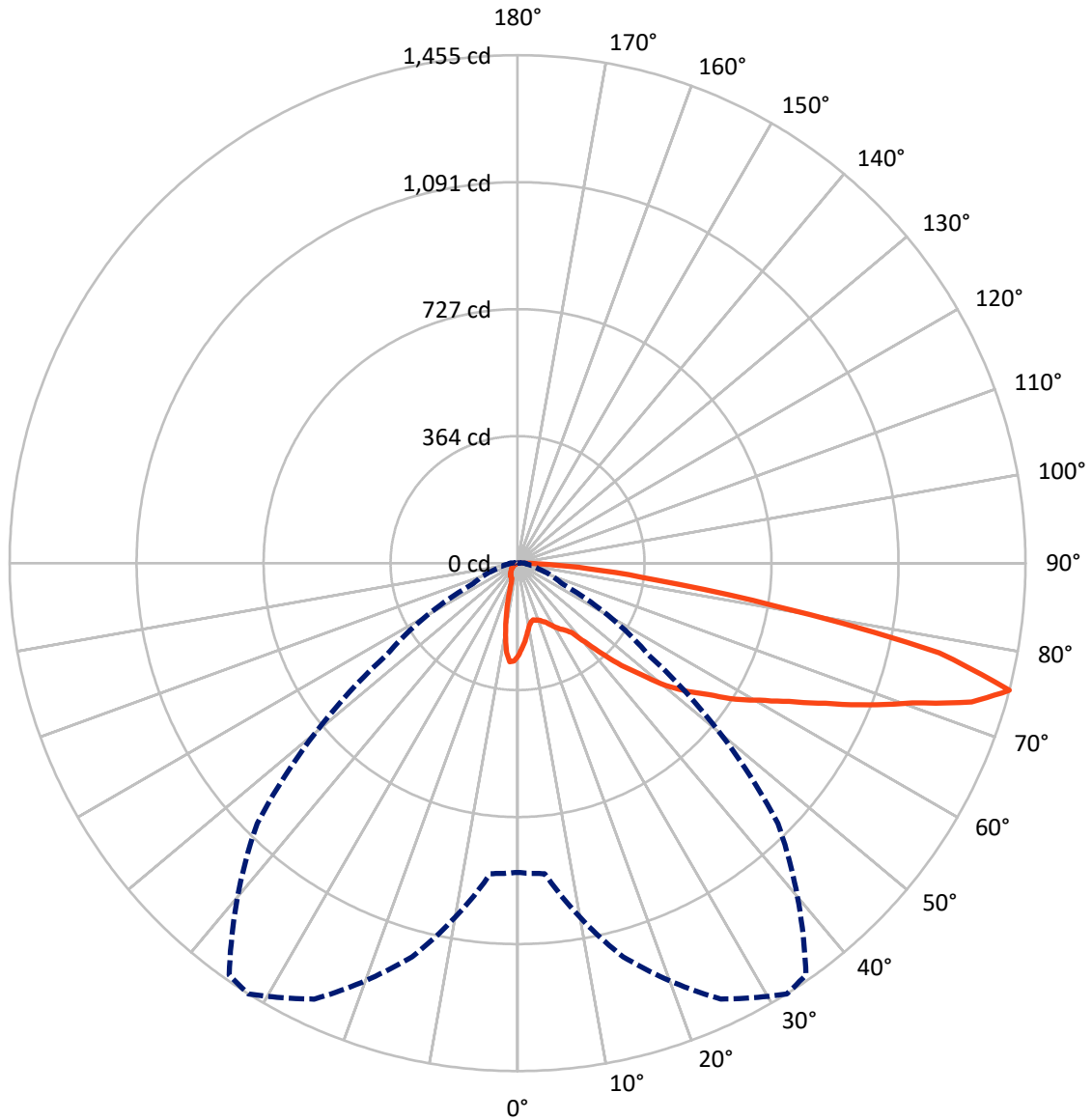
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 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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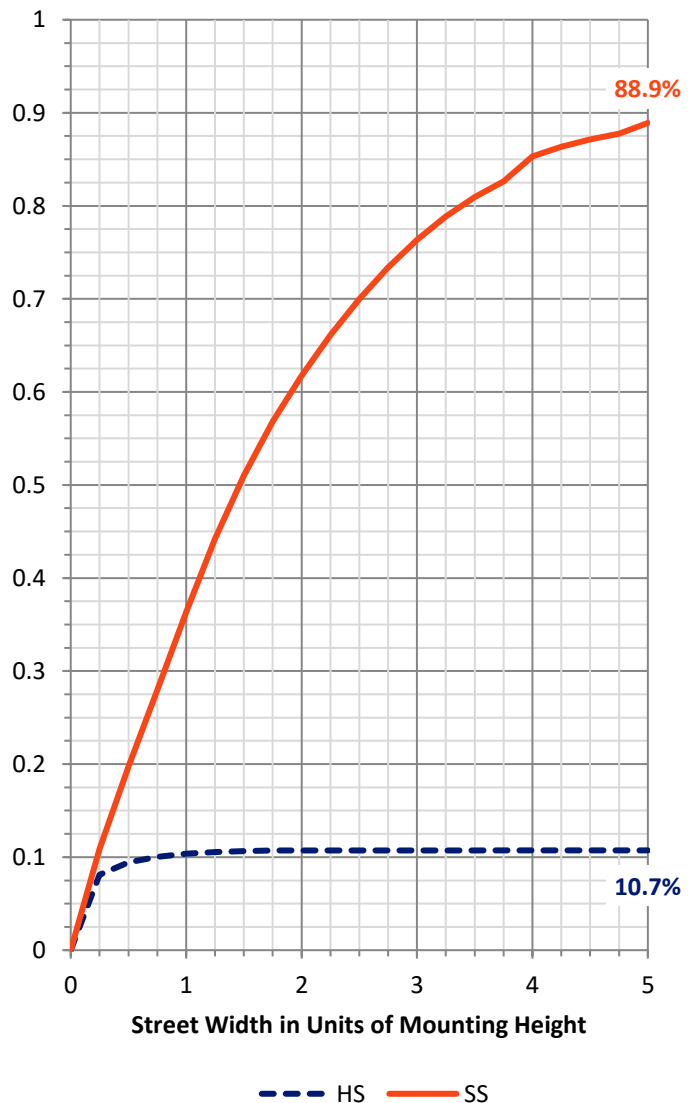
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	177.5	0.0	177.5
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1465.4	0.0	1465.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1642.9	0.0	1642.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.3	1.4
10°-20°	52.9	3.2
20°-30°	79.2	4.8
30°-40°	121.6	7.4
40°-50°	212.7	12.9
50°-60°	332.5	20.2
60°-70°	429.9	26.2
70°-80°	350.1	21.3
80°-90°	40.5	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°	1642.9	100.0
0°-180°	1642.9	100.0



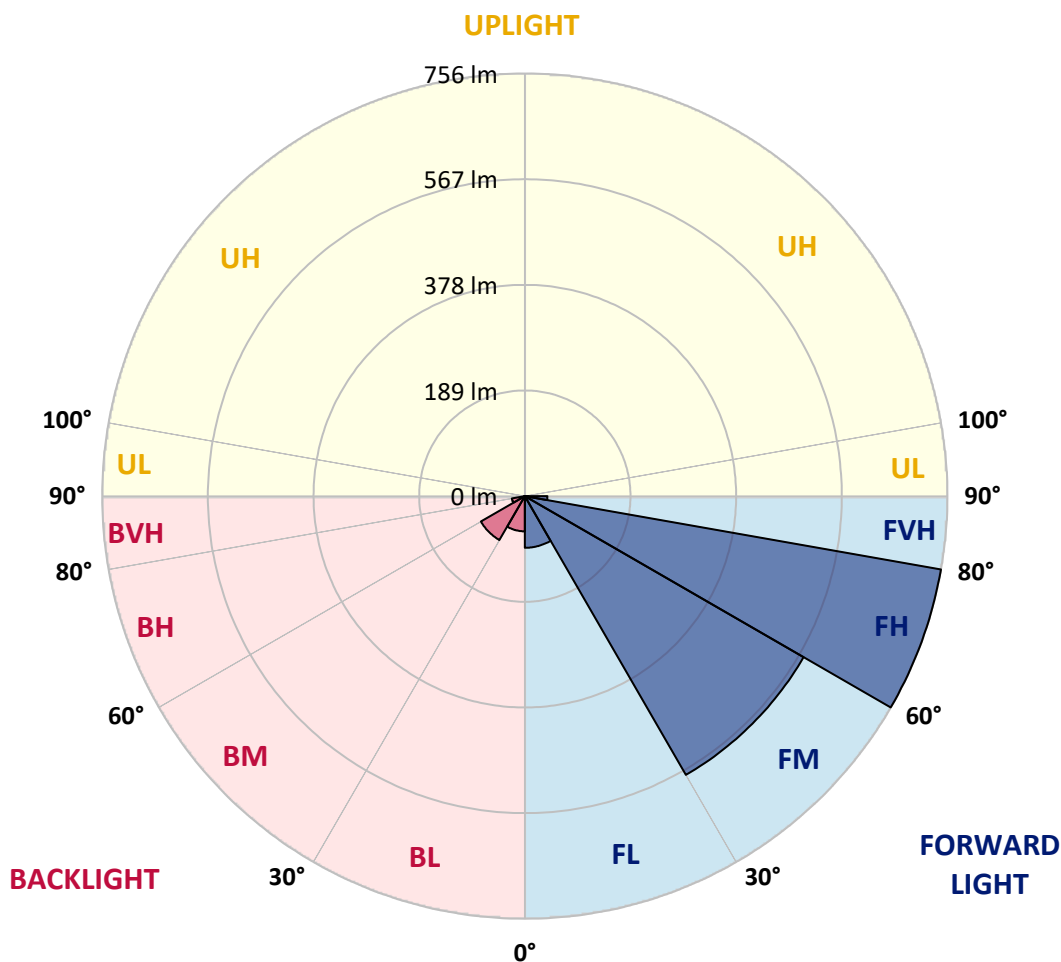
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	92.4	5.6			
FM (30°-60°)	576.1	35.1			
FH (60°-80°)	756.4	46.0			G1/1800
FVH (80°-90°)	40.5	2.5			G1/100
BL (0°-30°)	63.0	3.8	B0/110		
BM (30°-60°)	90.8	5.5	B0/220		
BH (60°-80°)	23.6	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°	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3
2.5°	237.9	241.3	240.8	243.0	243.4	244.6	247.6	247.6	256.0	261.9	265.7
5°	216.4	214.3	215.2	217.7	224.0	223.6	230.7	234.5	244.6	253.1	261.9
7.5°	189.9	189.5	191.2	197.1	201.7	205.5	213.1	222.7	236.2	248.9	264.4
10°	173.1	172.2	175.6	177.3	182.7	185.3	197.1	212.2	228.2	246.3	264.4
12.5°	169.3	166.3	168.0	167.6	172.6	173.9	185.3	203.8	223.2	245.5	267.8
15°	171.4	169.3	167.6	167.6	168.8	169.7	181.9	198.3	220.2	246.7	275.4
17.5°	178.1	176.8	171.8	166.7	172.2	172.2	179.8	197.1	220.6	250.5	284.6
20°	186.1	184.8	176.0	170.1	173.9	178.1	186.1	200.0	221.9	253.5	299.0
22.5°	195.0	195.0	182.7	176.0	181.1	181.5	195.8	209.3	227.0	261.1	308.2
25°	205.9	205.1	193.3	185.7	187.4	192.0	205.1	219.4	236.2	271.6	325.5
27.5°	220.2	219.0	205.1	197.5	199.6	204.6	219.4	233.7	244.6	275.8	340.2
30°	232.0	230.7	219.4	208.0	212.6	217.3	234.5	247.2	255.2	283.8	357.1
32.5°	234.5	232.4	224.8	219.8	224.8	233.7	247.2	260.2	272.4	304.0	389.1
35°	263.6	256.0	236.2	228.2	235.8	238.7	261.1	284.2	296.0	320.0	424.9
37.5°	319.2	312.0	285.9	263.6	253.1	256.4	285.5	314.1	325.5	349.9	464.0
40°	387.4	375.6	347.8	317.9	296.4	292.2	311.2	353.3	364.2	387.4	515.4
42.5°	465.3	453.9	411.0	375.6	353.7	348.2	351.2	398.7	408.0	421.9	549.1
45°	521.3	515.4	467.0	435.4	418.1	412.2	405.1	448.4	460.2	464.9	597.9
47.5°	553.7	549.5	522.5	501.1	477.9	471.6	476.2	517.5	509.5	513.3	644.7
50°	597.1	586.1	549.5	556.2	551.6	549.9	557.9	576.0	564.2	553.3	695.6
52.5°	632.0	612.7	587.0	603.4	610.5	616.9	645.1	658.5	605.9	589.1	728.4
55°	653.5	635.0	641.7	656.9	664.4	693.5	726.8	716.7	633.3	617.7	772.2
57.5°	672.9	674.1	692.2	696.9	735.6	740.7	804.7	771.8	652.7	643.8	789.5
60°	719.6	715.0	729.7	759.6	796.7	824.9	885.9	808.9	662.3	657.3	784.9
62.5°	803.8	775.2	780.2	818.1	872.4	903.2	932.7	825.7	659.8	659.4	771.0
65°	910.8	877.9	862.8	898.1	968.5	1011.8	985.3	844.7	643.0	654.8	719.2
67.5°	999.6	1000.0	971.8	991.6	1083.4	1092.7	1035.0	840.9	614.8	618.1	592.9
70°	1101.9	1115.8	1091.0	1152.9	1198.8	1204.7	1091.8	809.7	554.1	466.1	340.6
72.5°	1128.0	1135.2	1212.7	1307.8	1359.6	1361.3	1147.8	705.7	364.6	205.9	105.7
75°	885.9	892.7	1167.2	1377.7	1454.8	1440.0	1054.4	458.1	141.9	60.2	25.3
77.5°	494.3	496.4	724.7	1113.7	1234.1	1174.8	738.6	178.5	57.3	34.5	11.8
80°	135.2	158.7	268.6	549.1	753.7	739.8	351.6	58.1	37.1	26.9	5.5
82.5°	32.4	34.9	86.3	243.0	398.3	415.6	104.8	29.5	25.7	22.3	2.9
85°	11.8	13.1	26.5	118.3	204.6	187.8	31.6	14.7	18.9	17.3	1.3
87.5°	4.2	4.2	8.4	38.7	59.8	45.1	10.5	5.1	9.7	10.5	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°	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3
2.5°	266.1	266.1	272.0	277.1	278.7	280.9	278.7	283.4	283.0	280.9	281.7
5°	266.5	274.1	279.2	282.5	284.2	283.8	284.6	279.6	276.6	274.5	272.4
7.5°	268.6	275.8	285.1	284.2	279.6	269.9	262.3	248.9	235.8	235.4	233.3
10°	275.8	282.1	287.6	284.2	267.4	237.9	213.9	195.8	179.4	171.8	172.6
12.5°	280.9	292.6	290.1	272.9	237.9	199.2	163.8	137.3	122.5	108.6	108.6
15°	291.4	295.6	294.7	256.4	201.7	155.4	112.4	85.5	69.9	63.6	62.7
17.5°	301.5	306.1	291.8	231.6	165.9	104.4	68.2	53.1	50.9	50.1	50.5
20°	314.1	314.5	289.3	206.7	124.6	66.1	48.8	47.6	48.0	47.6	47.6
22.5°	327.6	330.5	280.4	171.8	83.0	48.0	45.5	45.9	45.9	45.9	47.2
25°	345.3	340.6	266.5	138.5	54.3	44.2	44.2	44.6	44.6	44.6	45.1
27.5°	357.1	350.7	248.9	99.8	42.5	41.7	42.5	42.5	43.4	43.4	43.4
30°	381.5	365.1	226.5	64.4	38.3	39.6	40.4	41.3	41.7	42.5	42.9
32.5°	400.4	377.7	198.7	42.9	34.9	35.8	37.9	39.6	41.3	40.8	40.8
35°	435.0	398.3	173.1	34.1	32.0	32.0	34.1	37.1	39.6	40.4	40.4
37.5°	474.5	415.2	137.3	31.2	29.5	29.5	30.7	34.1	37.5	39.2	38.3
40°	507.4	434.5	101.5	29.1	27.4	27.4	28.2	30.7	34.5	37.5	37.9
42.5°	530.5	448.9	68.6	26.9	25.7	25.3	26.5	27.8	30.7	34.9	35.8
45°	551.6	456.4	42.5	24.8	24.0	24.0	24.0	25.3	27.4	31.2	32.0
47.5°	589.1	464.9	30.7	23.2	21.9	22.3	22.7	23.2	24.8	25.7	26.1
50°	620.7	471.2	25.3	21.5	20.6	21.1	21.1	21.1	21.9	20.6	20.6
52.5°	644.7	464.9	21.5	19.8	18.9	19.4	18.9	18.9	18.1	16.4	16.4
55°	662.3	453.5	17.3	18.1	18.1	18.1	17.3	16.0	14.3	13.1	13.1
57.5°	667.0	434.1	13.5	15.2	16.4	16.4	14.7	13.1	10.9	9.7	9.3
60°	659.8	392.0	10.1	10.9	12.6	13.1	11.8	9.7	7.6	6.3	6.3
62.5°	634.1	358.7	8.0	7.2	9.3	9.7	8.4	6.3	4.2	2.9	2.5
65°	585.3	307.4	5.9	5.1	6.3	6.7	5.5	2.9	1.3	0.4	0.0
67.5°	469.5	231.6	3.8	3.4	4.2	4.2	2.5	0.8	0.0	0.0	0.0
70°	259.8	130.1	2.5	1.7	2.1	1.3	0.4	0.0	0.0	0.0	0.0
72.5°	74.9	37.1	1.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.2	8.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.8	3.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	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)