

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: P676684

Luminaire Tested: **CCW-SA-1A-730-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676684  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-730-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

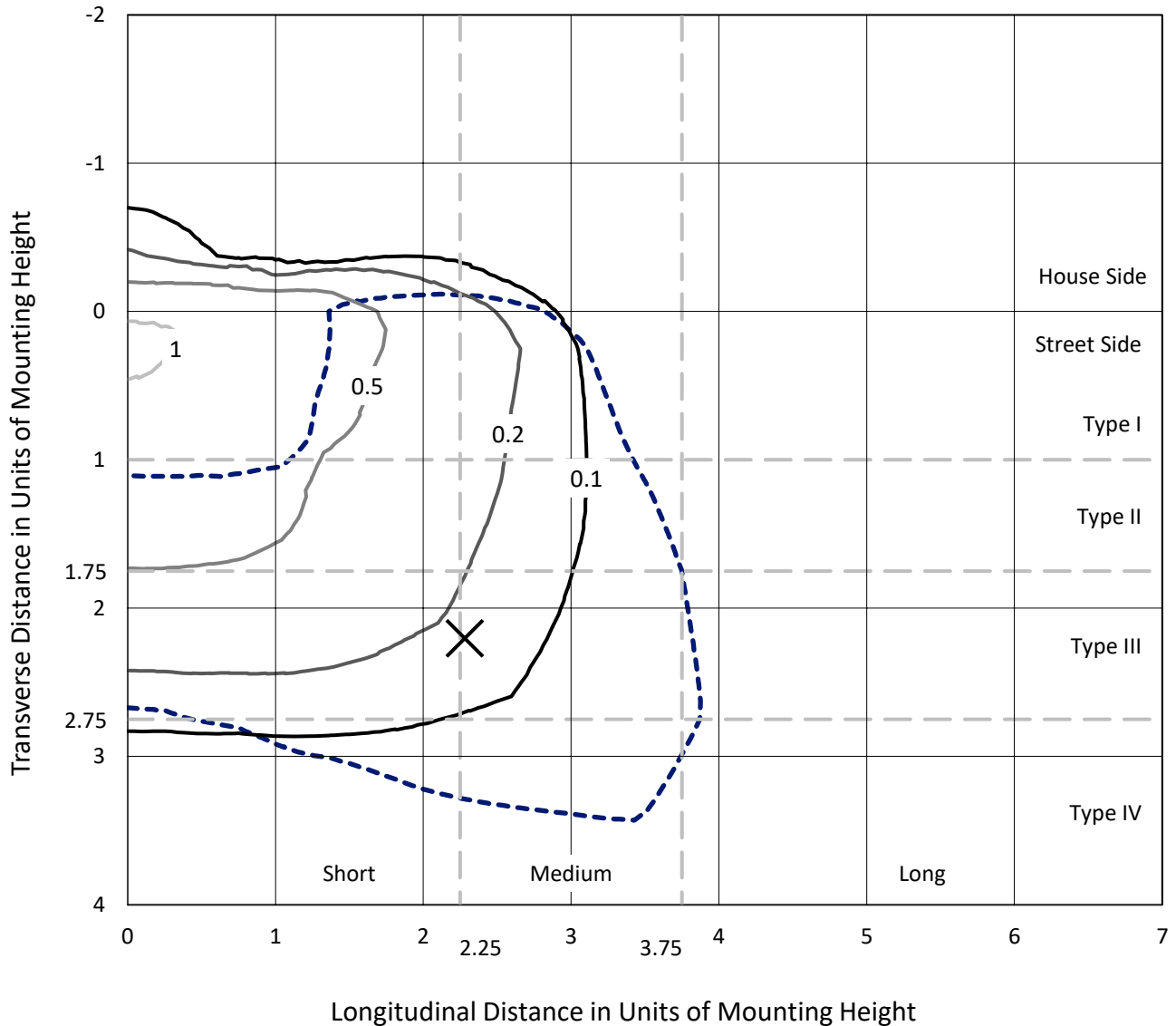
Lumens per Lamp: N/A  
Luminaire Lumens: 1797.4 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

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

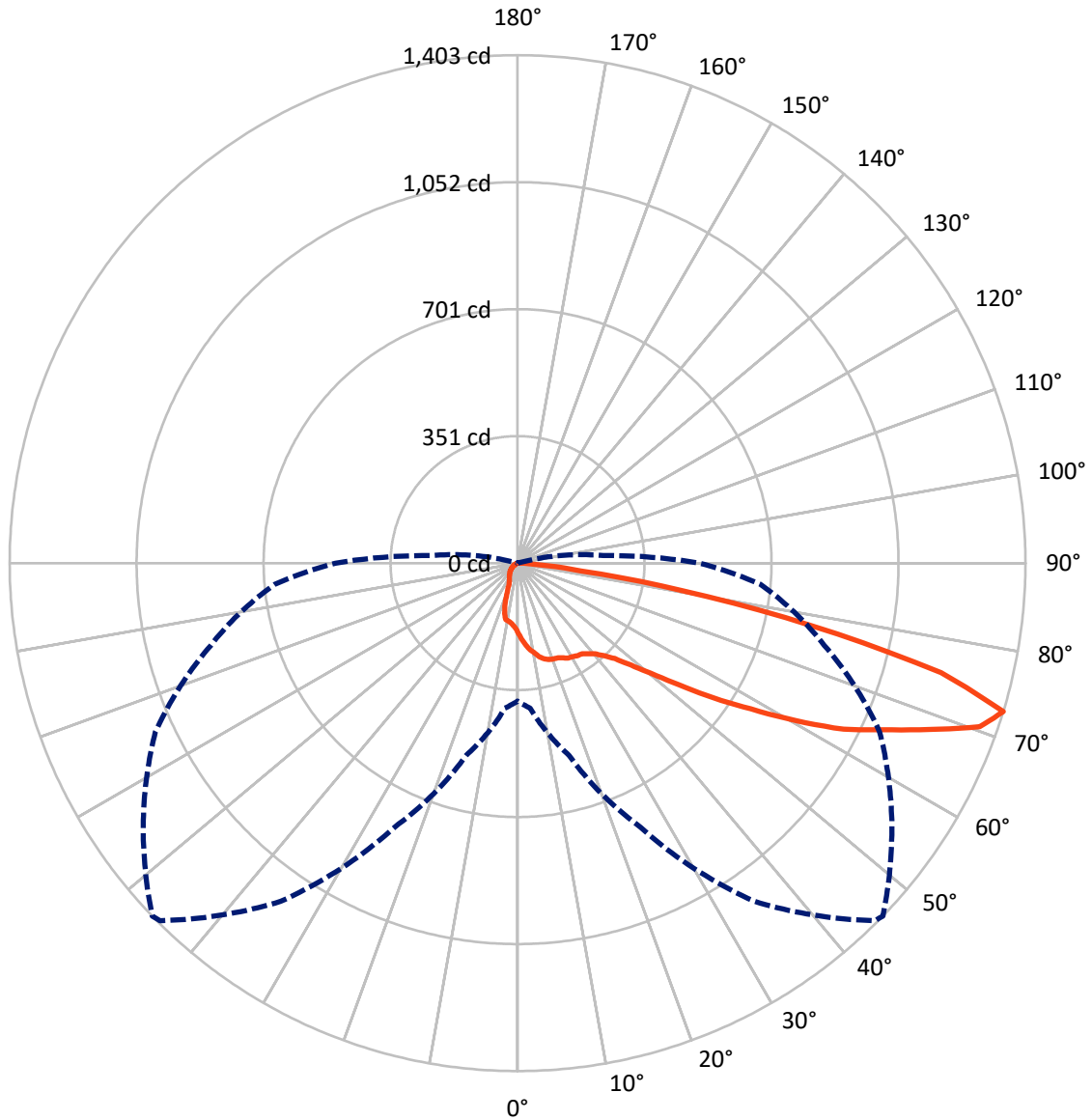
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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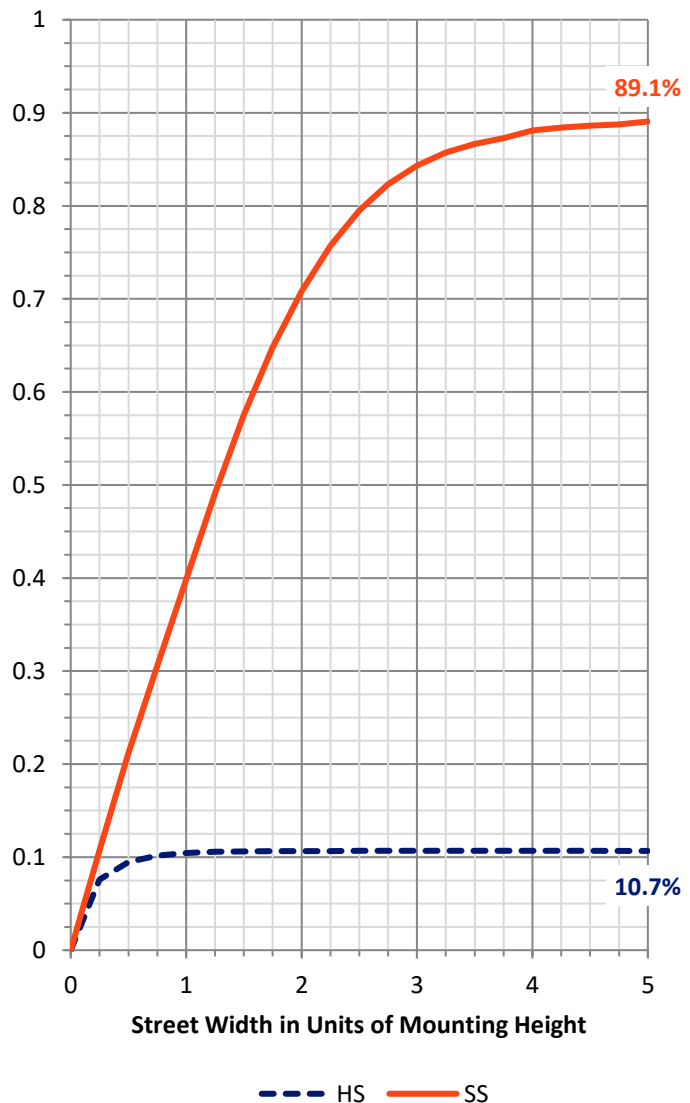
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	193.5	0.0	193.5
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1603.9	0.0	1603.9
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1797.4	0.0	1797.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.2	1.1
10°-20°	58.0	3.2
20°-30°	90.9	5.1
30°-40°	127.3	7.1
40°-50°	209.9	11.7
50°-60°	377.2	21.0
60°-70°	546.7	30.4
70°-80°	341.2	19.0
80°-90°	27.0	1.5
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°	1797.4	100.0
0°-180°	1797.4	100.0



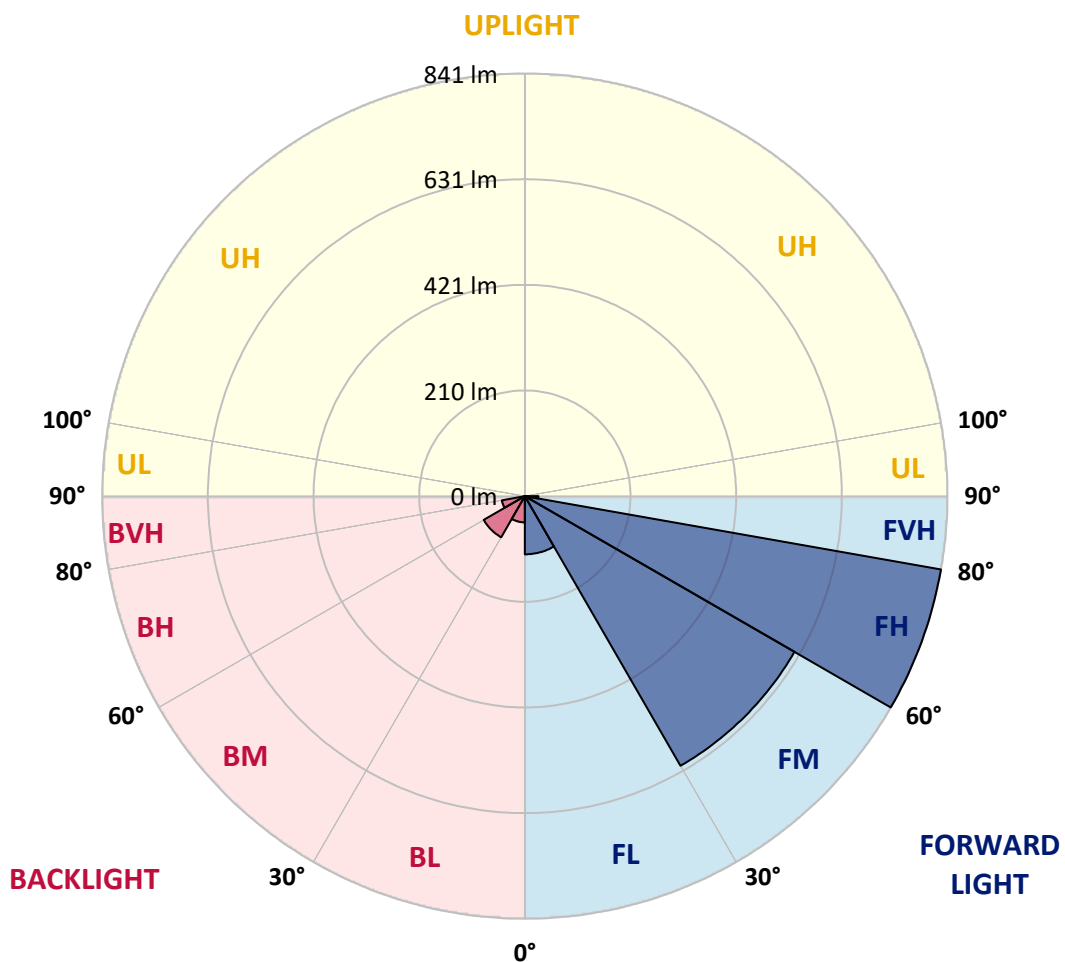
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.9	6.4			
FM (30°-60°)	619.8	34.5			
FH (60°-80°)	841.3	46.8			G1/1800
FVH (80°-90°)	26.9	1.5			G1/100
BL (0°-30°)	52.3	2.9	B0/110		
BM (30°-60°)	94.5	5.3	B0/220		
BH (60°-80°)	46.5	2.6	B0/110		G0/110
BVH (80°-90°)	0.1	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	215.0	214.1	215.5	215.0	209.5	210.4	210.0	206.3	199.9	196.2	193.9
5°	239.8	242.1	240.2	236.1	232.9	226.5	225.6	219.6	209.5	203.1	196.2
7.5°	265.4	265.4	261.8	255.4	248.5	241.6	240.7	230.6	221.9	210.9	201.3
10°	284.7	282.4	279.7	272.8	265.0	255.8	251.2	243.9	234.3	221.0	208.6
12.5°	301.7	298.0	293.4	283.3	274.2	264.1	265.0	253.1	246.7	234.7	216.4
15°	311.3	308.1	304.0	294.8	280.6	276.0	274.2	266.8	255.4	243.4	226.0
17.5°	313.6	311.3	305.8	293.9	286.1	280.6	280.1	271.4	266.4	256.3	237.0
20°	309.0	304.9	300.8	293.0	285.6	283.8	282.4	282.4	276.0	262.7	243.9
22.5°	301.2	296.6	294.3	289.7	283.8	283.3	284.2	283.3	278.3	269.6	251.2
25°	295.2	293.0	289.3	287.9	284.2	291.1	289.7	288.4	287.0	276.9	262.7
27.5°	297.1	296.6	293.9	288.4	285.6	293.0	297.1	297.5	297.1	287.0	273.2
30°	298.0	295.7	293.0	291.6	292.5	299.8	299.8	309.9	305.8	295.7	283.8
32.5°	308.5	307.2	298.0	294.8	295.2	304.0	304.4	314.5	313.1	306.3	293.0
35°	331.0	321.8	308.5	299.4	299.4	310.8	307.2	321.8	325.5	314.5	299.4
37.5°	364.5	357.6	333.8	313.1	305.3	313.6	317.3	325.5	336.5	326.9	312.2
40°	431.0	429.6	395.7	351.2	320.5	327.8	329.2	342.0	349.3	336.1	331.9
42.5°	528.1	521.3	489.6	419.5	348.0	344.8	349.8	358.1	375.5	364.5	354.4
45°	623.1	619.8	588.2	509.8	397.9	378.7	375.9	390.6	416.3	404.4	396.6
47.5°	691.8	685.4	667.5	601.5	471.3	418.6	420.4	435.1	467.6	458.5	460.8
50°	744.5	741.3	722.5	686.3	563.9	481.4	477.7	492.4	536.4	542.4	548.8
52.5°	802.3	808.3	783.1	752.3	673.5	565.7	557.5	562.5	619.4	633.1	651.0
55°	857.8	867.4	842.2	838.1	788.1	659.3	657.9	646.0	719.3	721.2	730.8
57.5°	894.0	890.8	889.0	911.4	902.7	766.5	759.7	747.8	814.2	802.3	831.2
60°	896.8	905.9	936.6	992.1	1007.7	892.6	882.5	850.0	896.3	867.9	922.9
62.5°	917.4	924.7	981.6	1058.1	1078.3	1003.6	1010.5	927.9	966.4	944.0	1024.7
65°	865.1	888.0	1002.2	1109.5	1170.9	1115.9	1109.0	1028.3	1038.4	1017.3	1125.1
67.5°	817.9	826.6	945.8	1125.1	1244.3	1228.7	1225.9	1117.3	1112.7	1073.7	1153.5
70°	664.8	675.3	793.1	1045.3	1269.0	1360.3	1353.8	1242.0	1163.1	1043.0	1007.7
72.5°	381.0	402.1	549.7	805.1	1140.2	1396.9	1402.9	1262.1	1103.5	877.0	673.0
75°	124.7	130.7	228.3	456.2	852.7	1218.6	1208.0	1084.7	890.3	579.0	304.0
77.5°	42.2	43.1	67.4	165.0	472.7	823.4	829.4	775.3	546.9	240.7	83.9
80°	21.5	22.9	33.0	61.9	194.4	448.4	458.0	442.0	229.2	71.1	20.2
82.5°	10.1	10.5	19.3	34.4	88.9	176.0	176.0	193.5	81.1	39.9	8.3
85°	3.7	3.7	10.1	19.7	37.6	58.7	59.1	59.6	42.6	29.8	3.7
87.5°	1.4	1.4	5.0	8.3	13.8	17.9	17.9	14.2	21.5	19.7	1.4
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°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	193.0	190.3	188.0	184.8	180.6	178.3	178.8	176.0	176.0	174.7	174.2
5°	193.0	190.3	184.3	178.8	175.1	170.5	168.3	166.4	166.4	165.5	166.0
7.5°	194.4	190.3	182.0	174.7	168.7	164.1	160.5	160.0	159.1	156.8	158.6
10°	202.6	196.7	182.9	172.8	166.0	160.9	154.5	152.7	149.9	145.8	146.2
12.5°	209.5	201.7	189.3	175.6	166.9	158.6	144.0	127.9	121.0	113.7	114.2
15°	219.6	208.6	191.6	179.3	166.9	140.3	113.7	93.1	82.1	76.6	76.6
17.5°	225.1	215.9	198.1	181.6	153.6	114.2	80.7	62.8	61.0	61.9	61.9
20°	236.6	224.2	205.4	183.4	131.6	81.1	59.1	57.3	58.2	60.1	59.6
22.5°	243.9	231.5	210.9	175.1	101.8	58.2	55.5	54.6	55.5	57.8	57.8
25°	249.9	242.1	219.6	155.0	72.0	52.7	51.8	52.7	53.6	54.6	55.9
27.5°	264.5	251.2	225.6	128.8	51.8	49.1	50.0	50.4	50.4	51.8	52.3
30°	274.2	263.6	230.1	99.5	45.8	45.4	46.3	46.8	47.2	48.6	49.1
32.5°	283.3	279.7	224.2	67.4	43.1	42.2	41.7	42.2	44.0	45.4	44.9
35°	296.6	294.3	215.5	46.8	40.3	38.5	37.6	38.1	39.4	40.8	40.3
37.5°	312.7	315.0	194.4	40.8	37.6	35.3	33.5	33.5	33.9	35.3	35.8
40°	331.5	337.4	169.6	38.1	35.8	33.0	31.2	28.9	28.4	28.0	28.4
42.5°	365.9	372.7	141.7	36.2	33.0	29.8	27.0	24.3	22.0	20.6	20.6
45°	414.0	408.5	105.0	34.4	31.6	27.0	22.9	19.7	16.5	15.1	15.1
47.5°	480.5	461.7	72.0	32.6	29.3	23.8	19.3	15.1	12.4	11.0	11.0
50°	572.6	510.7	46.8	30.7	28.0	20.6	15.6	11.0	9.2	8.7	9.2
52.5°	659.7	560.7	37.1	28.4	25.2	17.9	11.9	9.2	8.3	7.8	7.8
55°	740.0	585.9	33.0	26.1	22.9	14.7	10.1	7.8	7.3	6.9	6.9
57.5°	807.8	594.6	28.4	22.9	18.3	11.5	8.3	6.9	6.0	5.5	5.5
60°	866.5	596.9	22.0	18.3	13.3	8.7	6.9	6.0	5.0	4.1	4.1
62.5°	913.3	580.9	15.6	12.8	9.2	6.9	6.0	4.1	2.8	1.8	1.4
65°	950.4	548.8	10.5	8.7	6.0	5.0	3.7	1.8	0.5	0.0	0.0
67.5°	906.8	475.9	8.3	6.4	4.1	3.2	1.8	0.5	0.0	0.0	0.0
70°	739.5	369.1	6.0	4.1	2.8	0.9	0.5	0.0	0.0	0.0	0.0
72.5°	503.4	237.9	4.6	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
75°	226.0	85.3	3.2	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	55.0	20.2	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.7	5.0	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.5	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)