

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: P676495

Luminaire Tested: **CCW-SA-1A-850-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676495  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-850-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

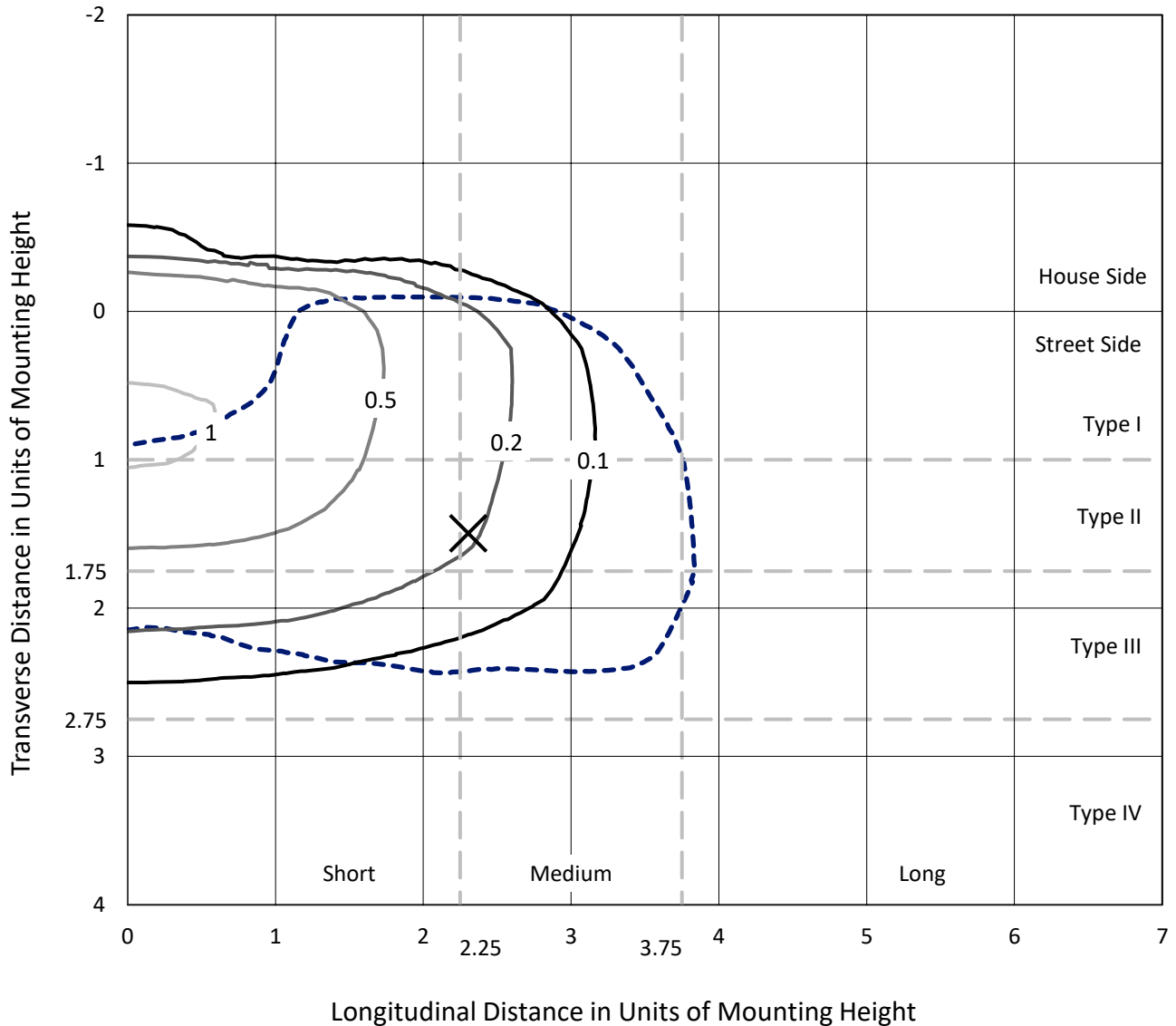
Lumens per Lamp: N/A  
Luminaire Lumens: 1719.8 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

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

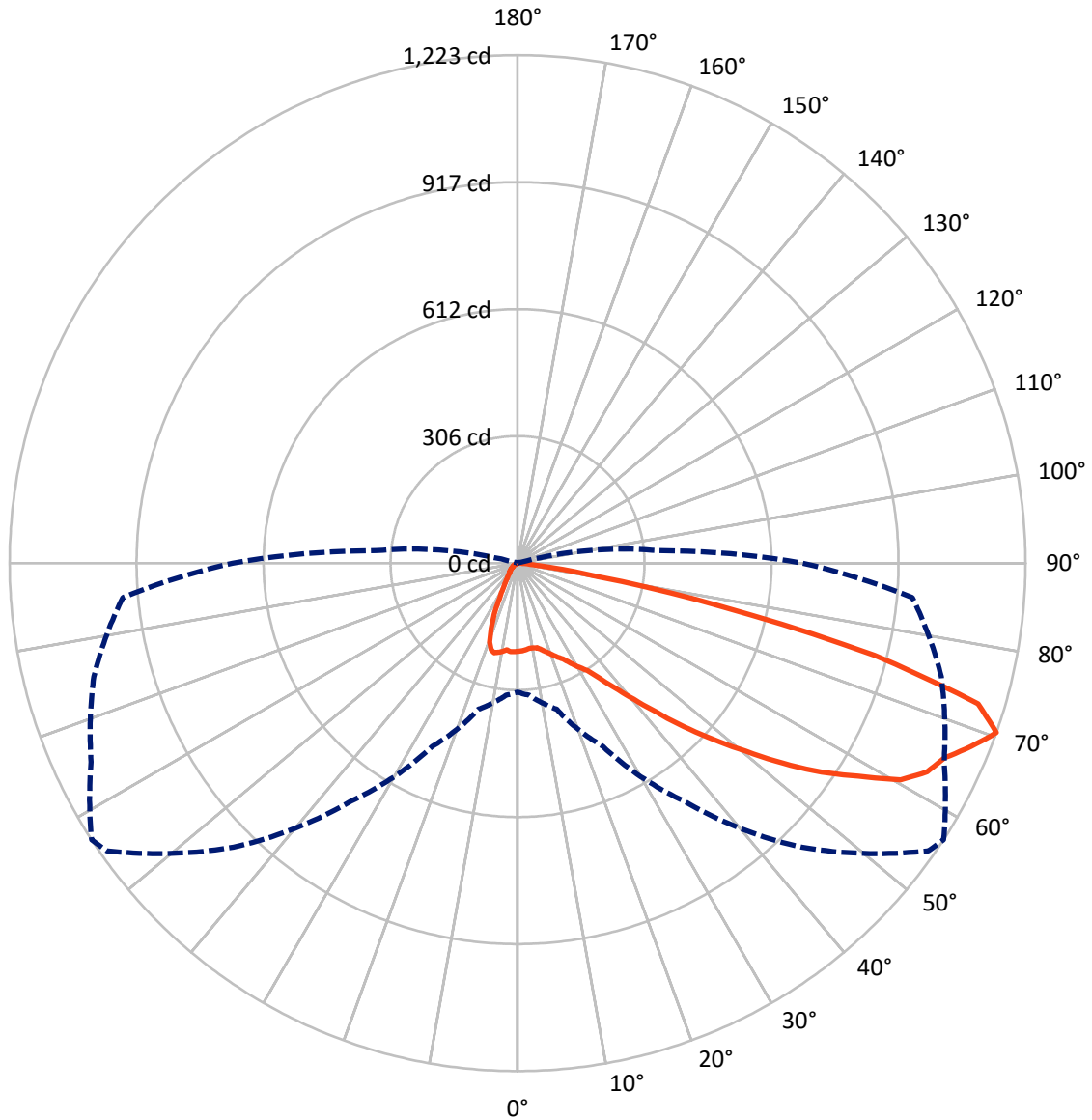
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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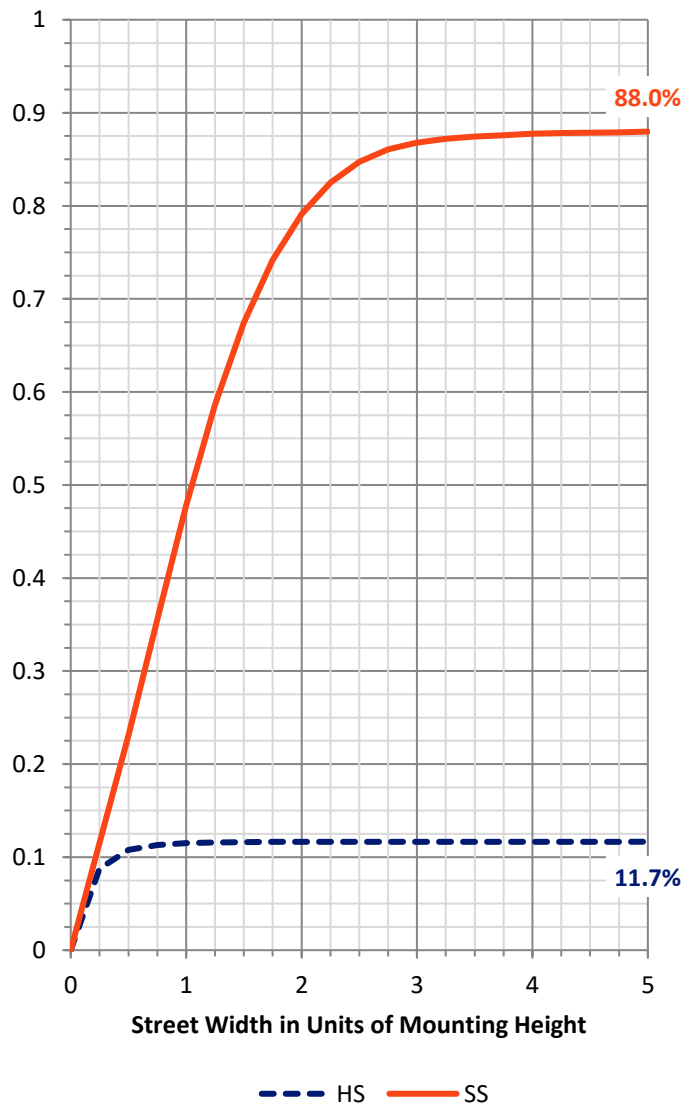
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	202.7	0.0	202.7
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	1517.1	0.0	1517.1
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	1719.8	0.0	1719.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	1.2
10°-20°	55.4	3.2
20°-30°	93.4	5.4
30°-40°	159.8	9.3
40°-50°	268.4	15.6
50°-60°	412.0	24.0
60°-70°	475.6	27.7
70°-80°	224.7	13.1
80°-90°	10.7	0.6
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°	1719.8	100.0
0°-180°	1719.8	100.0



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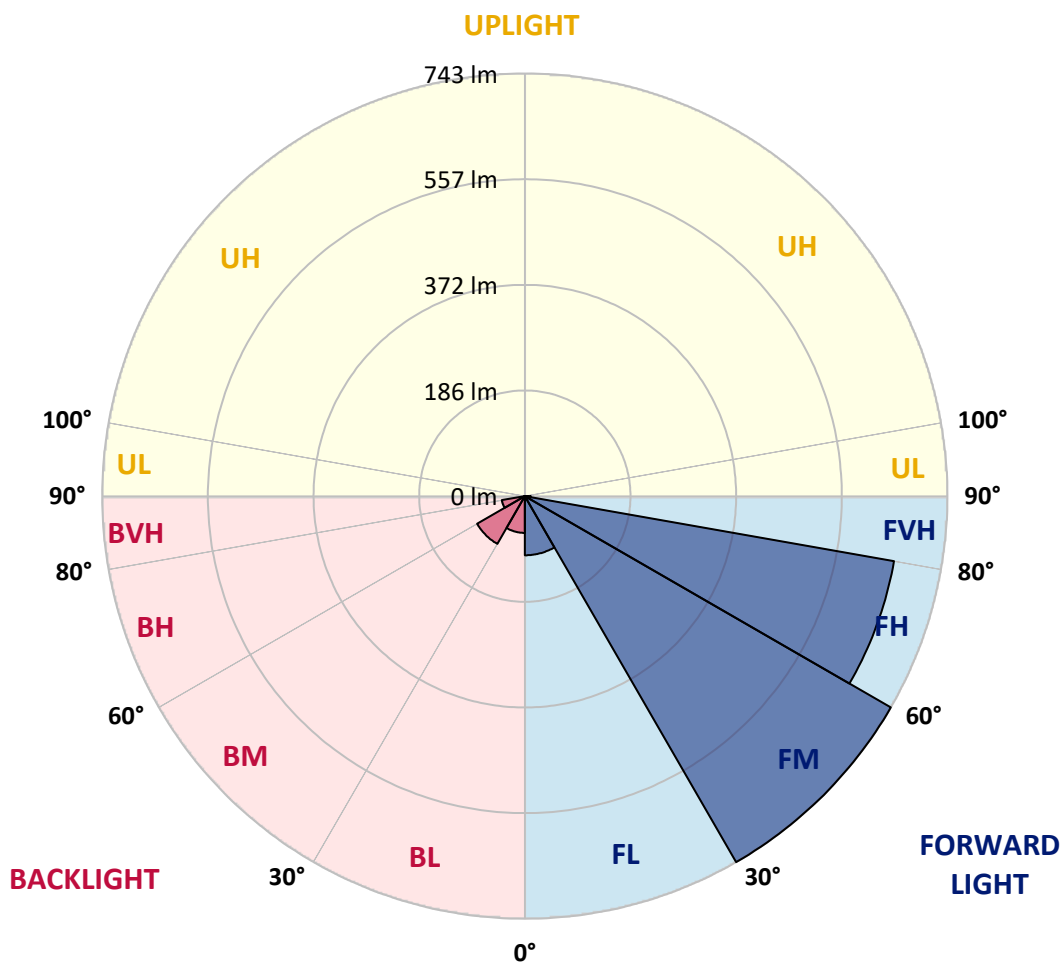
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	104.0	6.0			
FM (30°-60°)	743.3	43.2			
FH (60°-80°)	659.3	38.3			G0/660
FVH (80°-90°)	10.5	0.6			G1/100
BL (0°-30°)	64.6	3.8	B0/110		
BM (30°-60°)	96.9	5.6	B0/220		
BH (60°-80°)	41.0	2.4	B0/110		G0/110
BVH (80°-90°)	0.2	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	212.2	212.2	212.2	212.2	212.2	212.2	212.2	212.2	212.2	212.2	212.2
2.5°	209.1	207.8	209.1	210.9	209.1	210.4	210.0	211.3	209.6	209.6	210.9
5°	195.5	197.7	198.6	200.8	203.0	206.9	209.6	209.6	212.2	213.5	215.3
7.5°	190.7	187.2	190.7	192.4	194.6	201.2	205.2	206.9	210.4	215.3	217.9
10°	183.6	186.3	186.3	192.0	195.1	199.0	206.1	207.4	215.3	220.1	222.7
12.5°	183.2	183.2	185.4	189.4	195.5	203.0	211.8	209.1	217.5	226.3	230.7
15°	184.5	187.6	187.6	192.9	197.7	208.2	215.7	216.2	228.0	236.8	240.8
17.5°	190.2	188.9	190.7	193.8	201.2	211.3	223.6	224.9	238.6	250.4	256.1
20°	202.1	204.3	201.7	199.9	203.0	216.2	232.0	234.6	250.0	261.4	267.1
22.5°	246.5	244.7	234.2	221.9	216.6	222.7	239.9	246.0	264.0	277.7	282.5
25°	296.6	293.5	281.2	262.7	238.6	235.9	255.7	255.7	281.6	296.6	295.2
27.5°	344.0	343.1	328.6	309.3	275.0	256.1	268.4	273.3	301.4	313.7	308.0
30°	392.3	393.2	380.0	356.7	320.7	288.6	286.5	290.4	316.3	335.7	323.8
32.5°	448.6	440.7	431.4	399.4	366.4	330.4	309.7	308.0	333.0	350.6	334.8
35°	498.7	493.8	483.7	454.7	416.9	373.9	344.9	340.5	354.1	377.4	360.3
37.5°	542.6	537.8	524.6	505.2	475.8	427.9	387.1	380.5	386.2	410.8	390.1
40°	580.4	581.7	578.2	559.3	532.0	488.6	441.5	431.0	426.2	448.1	424.8
42.5°	607.6	620.4	621.2	597.9	576.0	552.3	499.5	491.2	479.8	498.2	482.0
45°	664.7	657.7	662.1	653.7	629.6	626.1	566.3	561.5	545.7	551.8	534.7
47.5°	709.5	708.2	716.6	703.0	696.4	696.8	642.3	634.0	611.6	623.0	603.7
50°	735.5	728.4	758.7	769.3	768.0	773.2	719.2	712.2	690.6	707.3	666.0
52.5°	741.6	754.4	782.9	821.1	837.4	848.4	803.1	800.5	777.2	787.7	730.6
55°	757.0	769.3	786.0	848.8	909.0	911.6	885.7	888.4	867.7	865.1	792.1
57.5°	756.6	753.9	800.0	873.0	956.5	994.2	980.2	967.4	945.0	919.1	831.7
60°	728.9	727.6	775.4	876.1	982.4	1068.9	1074.6	1059.7	1003.5	965.2	878.2
62.5°	674.0	679.2	727.6	849.7	1007.0	1095.7	1116.8	1106.7	1036.9	996.0	933.2
65°	611.1	600.1	656.4	783.8	951.6	1087.8	1133.5	1130.0	1076.4	1029.4	983.7
67.5°	490.3	495.1	538.2	674.4	857.2	1058.8	1172.6	1177.9	1108.0	1058.8	999.1
70°	310.6	319.4	364.2	487.2	699.9	967.4	1207.8	1223.1	1133.1	1056.2	954.3
72.5°	90.5	94.0	155.1	243.0	445.9	775.9	1151.5	1159.4	1084.3	958.6	738.1
75°	29.9	31.6	45.7	79.1	174.9	401.1	850.6	887.9	862.9	695.0	422.2
77.5°	19.8	20.6	25.0	37.8	66.3	125.7	456.0	496.0	486.4	325.6	136.2
80°	14.5	14.9	18.5	25.5	40.4	45.3	168.3	194.6	188.0	74.7	27.2
82.5°	9.2	9.2	13.6	18.0	25.5	22.4	48.8	54.0	52.7	28.6	10.5
85°	6.2	6.6	10.1	14.1	14.1	10.5	14.1	16.3	17.6	15.4	4.8
87.5°	1.8	2.2	5.7	9.7	5.7	5.3	4.8	5.3	6.2	8.3	2.6
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°	212.2	212.2	212.2	212.2	212.2	212.2	212.2	212.2	212.2	212.2	212.2
2.5°	212.2	214.0	213.5	214.4	213.1	211.8	213.1	213.1	213.1	211.8	210.9
5°	214.0	213.1	214.0	212.2	214.0	212.2	211.3	208.7	208.2	208.2	210.0
7.5°	216.6	217.5	213.5	213.5	209.6	210.4	208.2	208.7	207.8	206.5	205.6
10°	220.6	224.1	220.1	218.8	214.4	210.9	205.6	203.0	203.0	201.2	203.0
12.5°	231.5	230.2	228.0	223.6	218.4	211.3	198.6	185.8	175.3	167.4	171.3
15°	240.3	239.9	236.8	228.5	221.4	199.9	167.8	134.9	117.3	109.4	108.1
17.5°	253.9	252.6	247.4	236.4	213.1	165.6	115.1	87.4	70.3	66.3	65.0
20°	266.7	266.2	254.8	240.8	192.0	120.8	75.1	57.6	52.7	53.2	52.3
22.5°	280.3	278.1	264.5	235.5	152.9	80.4	53.6	51.4	49.6	49.2	50.1
25°	295.7	287.8	274.2	223.6	112.5	55.4	50.5	48.8	47.0	46.6	46.6
27.5°	301.8	296.6	278.5	195.1	71.2	48.3	47.4	45.3	43.1	41.7	41.3
30°	315.9	307.1	282.9	153.3	50.5	44.4	43.1	40.4	37.3	35.1	35.1
32.5°	329.9	319.4	283.4	107.2	42.2	40.0	37.8	34.3	30.3	28.1	28.6
35°	347.5	333.0	278.5	69.4	37.8	35.1	30.8	26.8	23.3	21.5	21.5
37.5°	377.4	363.8	258.8	45.7	34.3	29.9	25.5	21.1	18.0	16.7	16.7
40°	415.2	397.6	231.5	36.0	30.3	25.5	20.2	16.3	14.5	13.2	13.2
42.5°	460.4	438.5	191.1	32.1	26.8	21.1	15.8	12.7	11.0	11.0	10.5
45°	505.7	469.7	149.8	29.4	23.7	17.6	12.3	10.1	9.2	8.8	8.8
47.5°	570.3	507.4	107.2	26.8	20.6	13.6	10.1	8.3	7.5	7.0	7.5
50°	632.2	543.0	76.0	24.2	17.1	11.0	8.3	7.5	6.6	6.2	6.2
52.5°	686.7	567.6	53.2	21.1	14.5	9.2	7.5	6.6	6.2	5.7	5.7
55°	716.6	559.3	36.5	18.0	11.9	7.9	6.6	5.7	5.3	4.8	4.8
57.5°	747.3	536.0	27.7	14.9	9.7	7.5	6.2	5.3	4.8	4.4	4.4
60°	773.2	518.9	21.5	11.9	7.9	6.2	5.3	4.4	4.0	3.5	3.1
62.5°	774.6	484.6	15.8	8.8	6.2	5.3	4.4	3.5	2.2	1.8	1.3
65°	779.8	448.6	11.4	6.6	4.4	4.0	3.1	1.8	0.9	0.0	0.0
67.5°	761.4	406.0	9.2	4.8	3.1	2.2	1.3	0.4	0.0	0.0	0.0
70°	686.3	342.7	7.0	3.5	2.2	1.3	0.4	0.0	0.0	0.0	0.0
72.5°	491.2	222.7	4.8	2.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0
75°	261.8	94.9	3.5	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	82.2	24.2	2.2	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.0	6.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.4	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)