

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: P676927

Luminaire Tested: **CCW-SA-1A-850-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676927  
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-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

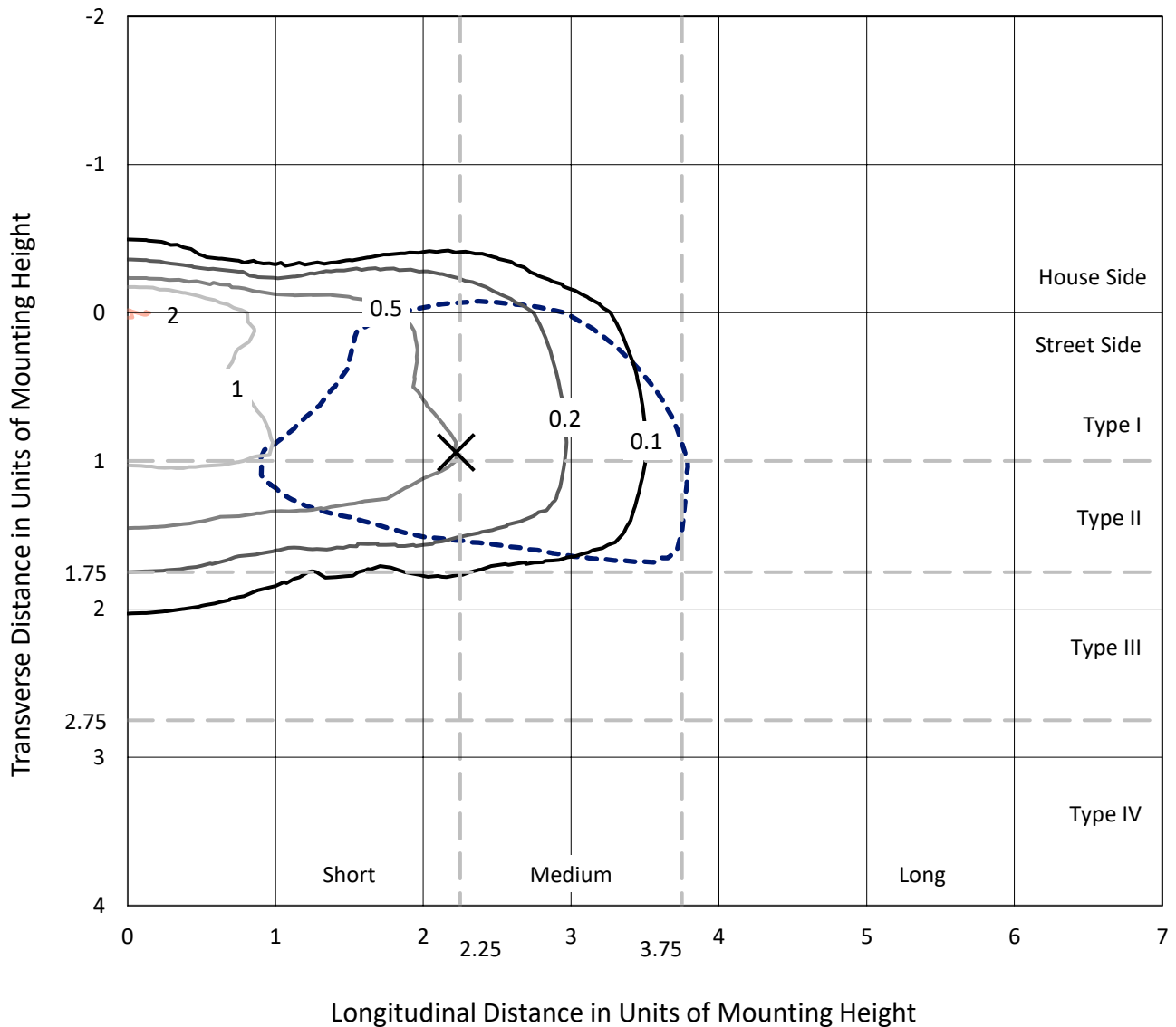
Lumens per Lamp: N/A  
Luminaire Lumens: 1919.8 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (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

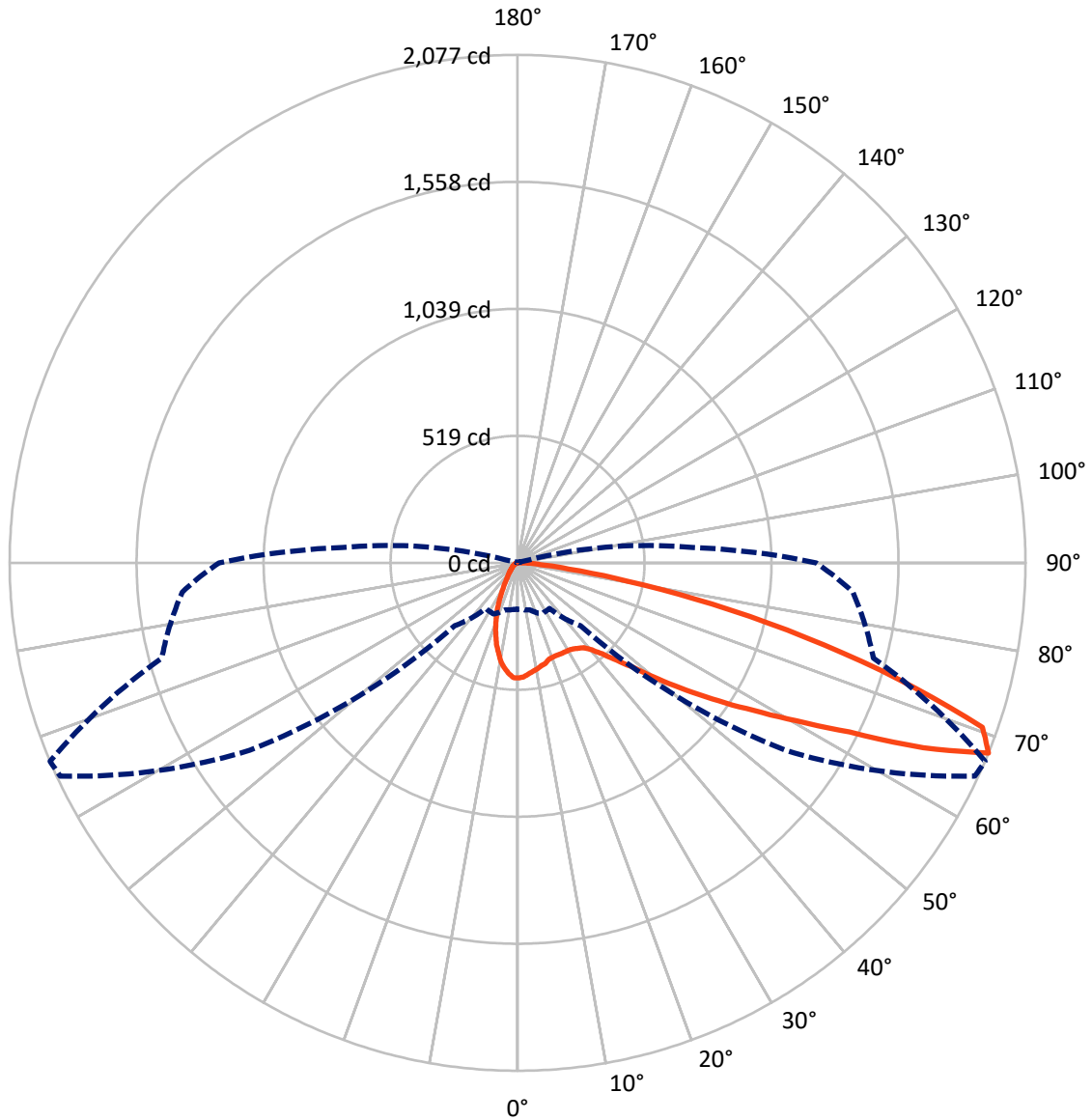
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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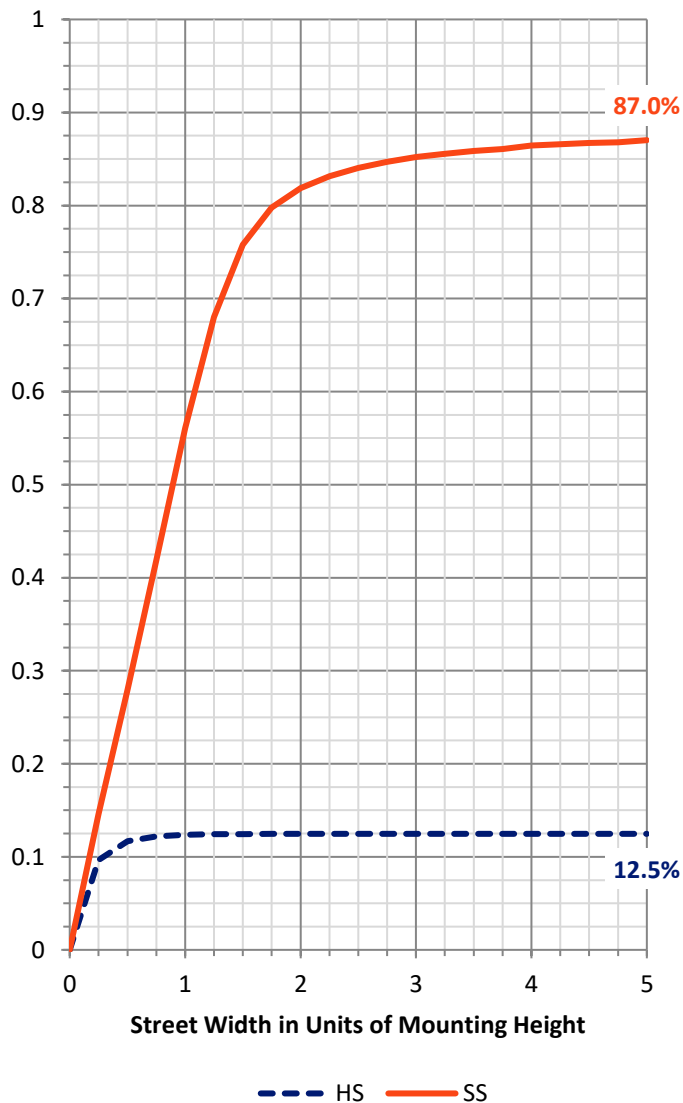
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	241.6	0.0	241.6
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	1678.1	0.0	1678.1
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	1919.8	0.0	1919.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.7	2.1
10°-20°	88.1	4.6
20°-30°	125.3	6.5
30°-40°	182.5	9.5
40°-50°	282.4	14.7
50°-60°	433.5	22.6
60°-70°	469.9	24.5
70°-80°	265.1	13.8
80°-90°	33.3	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°	1919.8	100.0
0°-180°	1919.8	100.0

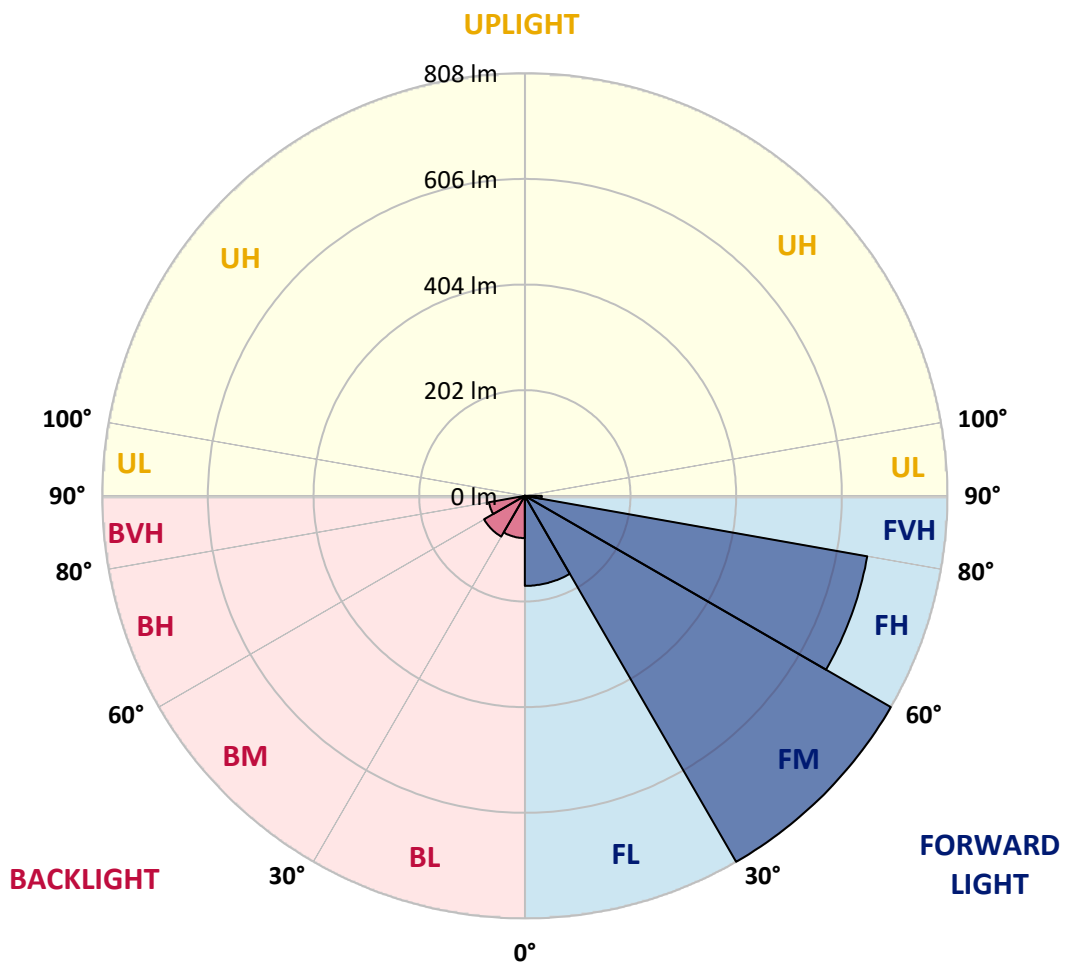


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.3	9.0			
FM (30°-60°)	808.4	42.1			
FH (60°-80°)	665.2	34.6			G1/1800
FVH (80°-90°)	32.4	1.7			G1/100
BL (0°-30°)	80.9	4.2	B0/110		
BM (30°-60°)	90.0	4.7	B0/220		
BH (60°-80°)	69.8	3.6	B0/110		G0/110
BVH (80°-90°)	1.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9
2.5°	450.5	452.8	456.1	460.7	463.9	462.1	463.5	471.3	467.2	470.9	469.0
5°	425.5	427.9	432.5	432.0	435.7	442.7	451.9	462.1	457.5	468.6	472.7
7.5°	399.6	398.7	398.7	408.4	416.3	426.0	431.1	447.7	448.2	457.9	468.1
10°	376.1	378.8	383.5	387.2	394.6	408.4	423.2	436.2	441.3	460.7	463.5
12.5°	361.7	363.1	368.7	371.9	381.6	395.0	410.7	427.4	431.6	451.4	464.9
15°	355.7	358.9	360.8	366.8	371.9	384.4	395.9	414.9	426.9	442.7	459.3
17.5°	360.3	358.9	359.9	361.7	367.7	378.8	391.3	410.3	414.4	440.8	465.8
20°	366.3	366.8	364.0	363.1	361.7	372.4	382.5	407.0	411.7	440.8	470.0
22.5°	382.5	377.4	382.5	375.1	367.7	372.4	382.1	407.5	410.7	440.3	474.1
25°	402.4	403.3	404.7	389.0	378.4	375.1	385.3	408.9	411.7	444.0	476.0
27.5°	430.6	434.8	427.9	420.0	398.7	382.5	384.8	408.0	413.1	442.2	480.6
30°	468.6	465.3	466.3	448.2	427.4	402.0	395.5	410.3	414.0	444.5	489.4
32.5°	501.4	497.7	504.2	497.7	464.9	429.7	408.0	414.9	419.1	450.1	496.8
35°	521.8	526.4	536.6	543.5	515.7	465.8	428.8	427.4	429.2	452.8	502.3
37.5°	553.2	561.5	569.9	587.4	563.4	510.2	461.6	443.6	440.3	466.3	505.1
40°	587.4	585.1	609.6	630.5	629.5	572.6	507.4	472.3	467.6	487.5	523.6
42.5°	616.1	613.8	641.1	675.3	679.0	632.8	559.7	513.0	508.8	520.4	546.3
45°	653.6	655.4	687.8	728.5	741.9	712.3	630.5	571.3	568.9	565.2	589.3
47.5°	686.9	697.1	724.8	772.9	821.5	794.7	713.7	656.4	640.2	631.8	655.9
50°	710.0	719.3	753.0	804.4	893.2	910.3	807.2	747.0	747.5	727.1	740.1
52.5°	710.0	709.6	736.8	804.4	943.1	1031.0	932.0	861.3	865.0	843.7	844.6
55°	641.6	640.2	673.5	745.2	937.6	1147.1	1121.2	1006.0	996.8	955.6	959.8
57.5°	516.7	519.9	545.3	631.4	865.4	1201.2	1346.5	1168.9	1137.4	1052.3	1052.3
60°	377.0	374.2	393.2	453.3	693.4	1180.9	1531.5	1360.8	1311.3	1132.3	1120.3
62.5°	286.8	286.3	291.4	311.8	439.9	1029.6	1611.1	1605.1	1524.6	1211.0	1193.8
65°	231.7	232.7	239.6	253.9	268.7	702.2	1569.0	1896.5	1822.9	1328.0	1272.0
67.5°	189.2	191.5	199.8	230.8	227.6	363.6	1336.3	2063.4	2077.3	1506.5	1377.0
70°	145.7	149.4	159.1	203.1	219.2	241.9	926.5	1980.2	2017.2	1617.5	1313.6
72.5°	99.0	98.5	119.3	164.7	221.6	221.6	515.7	1594.9	1630.0	1491.3	1141.1
75°	53.7	56.9	79.1	124.4	203.1	214.2	293.7	1167.0	1216.5	1159.6	882.5
77.5°	29.1	29.6	43.9	81.4	168.8	204.4	196.1	793.7	813.2	699.4	483.4
80°	15.3	15.7	23.1	53.2	116.6	189.6	163.3	473.2	454.7	268.3	159.6
82.5°	6.9	7.4	11.6	33.3	74.5	149.4	141.1	228.5	210.9	74.9	48.6
85°	2.8	2.8	5.1	19.9	43.5	73.5	120.7	114.7	95.7	22.7	24.1
87.5°	0.9	0.9	1.4	7.9	17.6	43.9	64.3	60.6	41.6	8.3	13.0
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°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9
2.5°	467.2	472.3	470.9	470.0	461.2	460.2	459.3	451.0	453.8	446.8	451.4
5°	470.0	472.7	465.3	451.4	439.0	425.1	414.4	407.0	393.6	388.5	387.6
7.5°	467.2	467.2	451.9	429.7	405.2	382.5	353.9	333.5	318.2	306.7	310.8
10°	463.5	457.9	442.2	402.9	358.5	324.2	283.1	253.0	230.4	222.9	218.3
12.5°	463.5	453.8	418.6	365.0	307.6	255.8	206.8	167.4	145.7	132.8	130.9
15°	459.3	445.0	401.5	329.3	258.1	187.8	131.8	98.1	79.6	74.5	72.6
17.5°	460.2	443.1	376.1	287.2	200.3	124.9	80.5	62.0	57.4	55.0	55.5
20°	462.1	443.1	353.4	246.1	144.3	77.7	55.5	52.3	50.0	49.0	49.5
22.5°	468.1	434.3	330.3	204.0	97.6	56.0	49.0	45.8	43.9	42.6	42.1
25°	469.0	432.9	308.1	162.4	67.1	47.2	43.0	39.3	37.0	35.2	34.7
27.5°	467.6	426.9	277.1	120.7	50.4	42.1	36.5	32.8	29.6	28.2	27.8
30°	472.7	415.8	250.7	87.0	42.6	36.5	31.0	26.8	24.1	22.2	22.2
32.5°	473.2	406.1	221.6	62.0	38.9	32.4	26.4	21.7	19.0	18.0	18.0
35°	473.7	397.3	189.2	47.2	34.7	27.8	21.7	18.0	16.2	14.8	14.8
37.5°	475.0	390.9	159.6	39.8	31.0	23.6	18.0	14.8	13.0	12.5	12.5
40°	477.8	382.1	128.6	35.2	26.8	19.9	15.3	12.5	10.6	10.2	9.7
42.5°	485.2	379.8	102.7	31.5	24.1	16.7	12.5	10.2	8.8	7.9	7.4
45°	515.7	385.8	79.6	29.1	20.4	13.9	10.6	8.3	6.5	6.0	5.6
47.5°	565.7	405.7	62.9	25.9	17.1	11.6	8.8	6.5	5.1	4.6	4.2
50°	641.6	451.0	51.3	23.1	14.3	9.7	6.9	5.1	3.7	3.2	3.2
52.5°	741.0	512.0	44.4	20.4	11.6	8.3	5.6	3.7	2.8	2.3	2.3
55°	842.8	584.2	41.6	17.6	9.7	6.9	4.2	2.8	1.9	1.4	1.4
57.5°	936.2	630.9	40.2	14.3	8.3	5.1	3.2	1.9	0.9	0.5	0.5
60°	994.5	665.1	36.1	11.6	6.5	4.2	2.3	0.9	0.5	0.0	0.0
62.5°	1071.3	699.8	29.6	8.8	4.6	2.8	1.4	0.5	0.0	0.0	0.0
65°	1172.6	738.7	23.1	6.9	3.7	1.9	0.9	0.5	0.0	0.0	0.0
67.5°	1221.1	718.3	15.7	5.1	2.3	0.9	0.5	0.0	0.0	0.0	0.0
70°	1124.0	605.0	11.1	3.7	1.4	0.5	0.5	0.0	0.0	0.0	0.0
72.5°	945.0	474.1	8.3	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0
75°	696.6	296.5	6.5	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	369.6	110.5	4.6	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.2	32.4	3.2	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.1	9.7	1.9	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.5	3.7	0.9	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	1.4	0.9	0.9	0.5	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)