

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: P677060

Luminaire Tested: **CCW-SA-1A-840-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677060  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-840-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

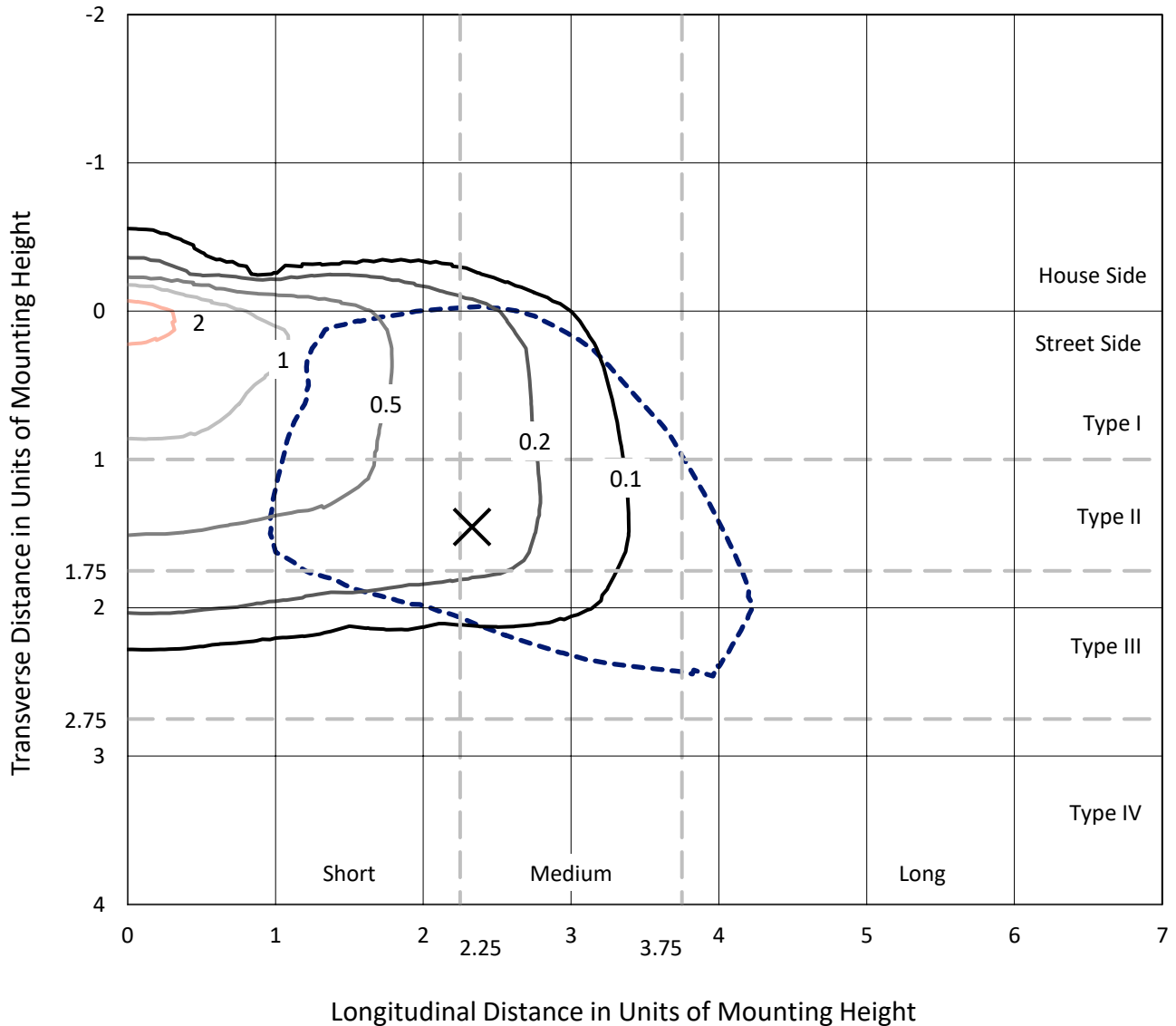
Lumens per Lamp: N/A  
Luminaire Lumens: 1927.5 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

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

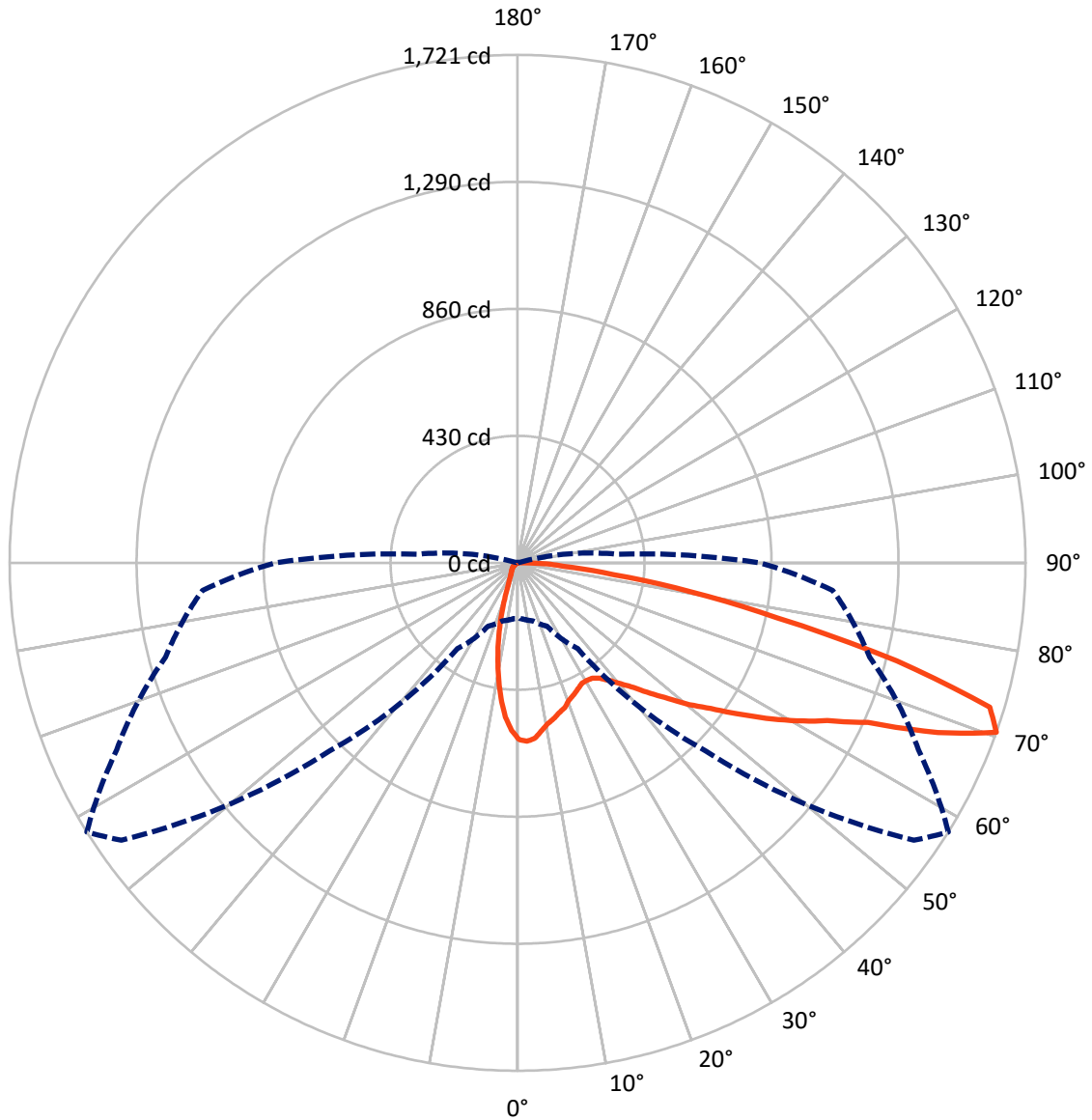
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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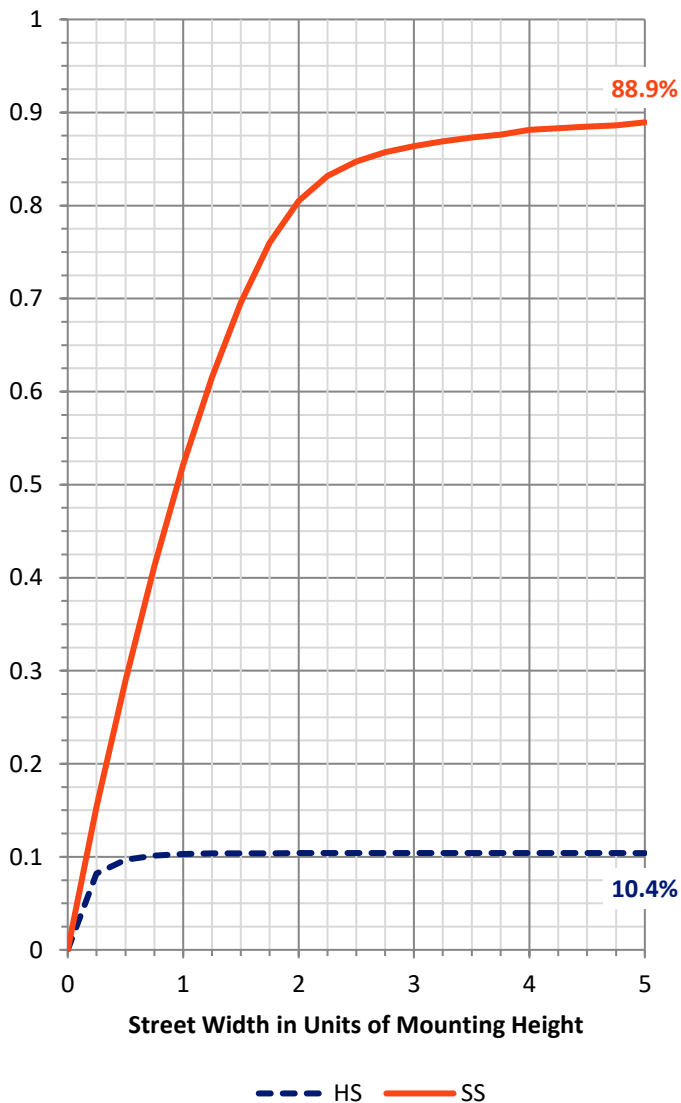
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	201.9	0.0	201.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	1725.7	0.0	1725.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	1927.5	0.0	1927.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	2.5
10°-20°	101.6	5.3
20°-30°	136.1	7.1
30°-40°	184.0	9.5
40°-50°	264.0	13.7
50°-60°	389.1	20.2
60°-70°	474.6	24.6
70°-80°	289.8	15.0
80°-90°	39.4	2.0
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°	1927.5	100.0
0°-180°	1927.5	100.0

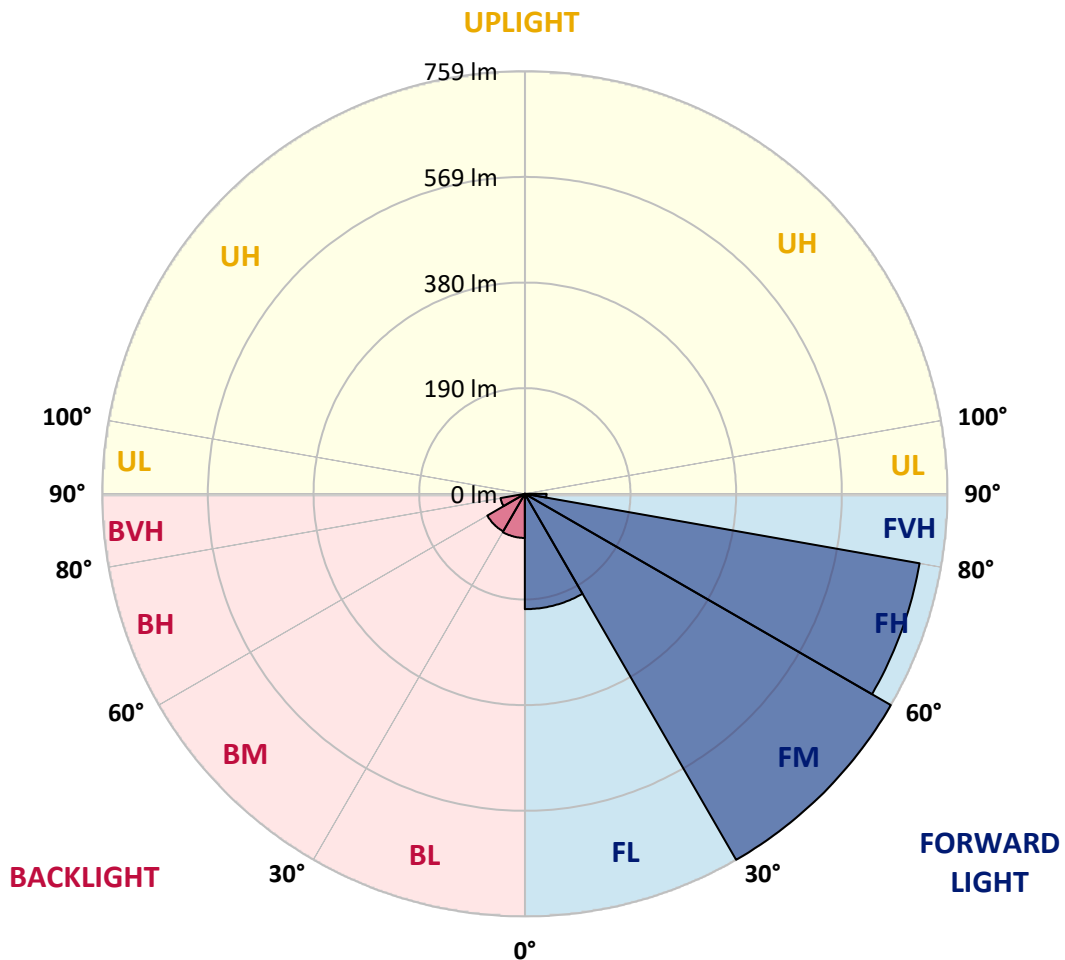


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.2	10.8			
FM (30°-60°)	759.2	39.4			
FH (60°-80°)	720.2	37.4			G1/1800
FVH (80°-90°)	39.0	2.0			G1/100
BL (0°-30°)	79.3	4.1	B0/110		
BM (30°-60°)	77.9	4.0	B0/220		
BH (60°-80°)	44.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.4	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°	58°	65°	75°	85°
0°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	609.2	611.5	606.0	612.4	606.5	609.2	606.0	605.1	605.6	606.0	602.4
5°	580.7	586.2	588.4	584.8	593.4	592.0	597.4	597.9	595.6	593.4	593.8
7.5°	543.2	548.6	550.9	553.2	561.7	573.0	580.3	575.8	579.4	587.5	575.3
10°	516.1	514.7	514.3	518.8	535.1	544.6	556.8	555.4	564.5	572.1	562.2
12.5°	482.7	479.9	488.1	491.7	506.2	522.9	532.4	542.3	551.4	559.5	548.2
15°	457.8	460.1	463.2	470.9	481.3	503.4	517.5	526.9	543.2	547.3	542.8
17.5°	437.9	439.7	444.2	448.3	461.4	482.7	504.8	516.1	533.3	544.1	530.1
20°	438.4	432.9	432.9	437.0	444.2	469.6	493.1	496.7	520.2	538.7	529.2
22.5°	438.8	437.0	432.9	432.5	435.7	453.7	477.7	485.8	511.1	532.8	521.5
25°	445.1	438.4	438.8	432.5	433.9	442.9	461.9	474.1	503.0	536.0	517.5
27.5°	450.6	453.7	447.4	444.7	437.0	436.6	452.4	462.8	498.9	543.2	520.2
30°	462.8	465.0	465.0	463.2	456.0	445.6	449.2	462.3	490.8	541.9	515.7
32.5°	483.1	479.0	484.5	481.8	472.3	456.0	459.2	465.9	495.8	559.0	522.9
35°	489.9	493.1	500.3	494.4	491.2	481.8	475.4	480.4	503.0	576.2	533.7
37.5°	510.7	506.2	511.1	524.2	527.4	510.2	498.0	505.3	530.1	596.5	543.7
40°	512.5	516.1	525.1	550.9	554.1	546.8	536.9	538.7	557.2	622.8	568.5
42.5°	521.5	525.6	544.1	565.8	583.0	584.3	577.1	577.1	592.9	664.8	596.1
45°	539.2	532.4	556.3	592.9	617.8	622.8	632.2	630.0	642.6	709.1	647.6
47.5°	545.9	548.2	574.4	618.7	647.2	670.2	686.0	686.5	692.8	765.6	714.5
50°	568.1	567.6	599.3	640.4	682.4	724.4	755.2	755.2	754.7	820.7	771.9
52.5°	597.4	596.5	621.0	669.8	724.4	777.3	818.0	819.3	829.7	888.5	837.9
55°	645.4	641.3	664.8	700.9	766.5	830.6	901.1	901.6	893.5	936.8	885.3
57.5°	685.6	685.1	704.6	739.4	813.5	899.3	981.1	993.3	967.6	986.6	923.3
60°	675.2	681.1	721.3	772.8	863.2	985.2	1067.5	1086.4	1045.3	1020.5	951.8
62.5°	610.6	624.1	668.0	750.2	905.2	1109.9	1186.3	1177.7	1086.0	1049.4	986.6
65°	439.3	452.8	507.1	630.4	856.4	1198.1	1342.7	1303.8	1158.3	1092.3	1033.1
67.5°	258.5	263.9	297.8	402.2	640.4	1150.2	1532.5	1535.7	1300.7	1158.3	1113.6
70°	186.6	190.7	203.8	237.3	354.8	901.6	1638.2	1720.5	1498.1	1234.2	1071.1
72.5°	143.3	143.3	165.4	197.5	226.0	540.1	1507.6	1672.6	1541.1	1161.5	863.2
75°	103.0	105.8	129.7	169.9	208.3	271.2	1110.8	1327.3	1306.1	941.4	602.9
77.5°	59.2	60.6	91.3	142.4	195.7	186.2	686.5	899.8	925.1	589.3	261.2
80°	30.3	31.2	51.1	112.5	177.2	162.2	409.4	592.5	502.5	171.3	60.6
82.5°	14.9	14.9	23.0	71.9	150.5	143.7	240.9	327.2	178.1	39.3	25.3
85°	5.0	5.4	10.4	40.7	108.9	86.8	147.3	155.5	59.7	14.9	14.0
87.5°	1.4	1.8	2.7	14.9	47.5	56.9	87.7	99.4	24.4	5.9	6.8
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°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	588.9	585.7	582.1	573.0	565.8	556.3	550.0	545.0	535.5	537.3	533.3
5°	583.0	577.1	556.3	536.4	518.4	490.8	471.8	459.6	449.7	439.7	447.0
7.5°	572.6	558.6	526.0	489.0	450.6	414.4	378.3	356.6	340.8	326.3	325.8
10°	555.0	532.4	481.3	432.9	373.7	326.3	280.2	244.0	220.5	203.4	202.9
12.5°	535.1	511.6	447.4	368.8	300.5	233.6	178.5	140.1	118.0	104.4	102.6
15°	522.4	488.1	404.9	311.8	227.3	152.3	99.0	75.0	66.4	63.3	63.3
17.5°	506.2	466.8	362.9	252.6	157.7	88.1	64.2	57.8	57.4	56.5	55.6
20°	499.4	450.6	325.4	201.6	99.9	62.4	55.1	53.8	53.8	52.9	52.0
22.5°	481.3	427.1	285.6	147.8	66.4	54.7	52.0	50.2	49.3	48.4	49.3
25°	473.2	410.4	248.1	102.1	54.2	48.8	47.5	45.6	44.3	43.8	43.8
27.5°	467.7	393.6	211.5	71.0	47.9	44.7	42.0	40.7	38.9	37.1	37.1
30°	463.7	380.5	176.3	52.4	42.9	39.8	37.5	34.3	32.1	30.3	30.3
32.5°	458.3	365.2	141.0	44.7	38.9	35.7	31.6	28.9	25.8	24.4	24.4
35°	460.1	354.8	110.7	39.8	34.8	30.7	27.1	23.5	20.3	19.0	18.5
37.5°	463.7	347.1	84.1	35.7	31.2	26.7	22.6	18.5	16.7	14.9	14.9
40°	479.0	344.8	61.9	33.0	28.5	23.5	19.0	15.4	13.6	12.2	11.8
42.5°	504.8	348.0	47.9	29.8	25.8	19.9	15.8	12.7	10.8	9.5	9.0
45°	537.8	360.2	39.3	28.0	22.6	16.7	12.7	10.4	8.1	7.2	7.2
47.5°	585.7	379.2	34.3	25.8	19.9	14.0	10.8	8.1	6.3	5.4	5.4
50°	639.9	400.9	30.3	23.0	17.2	11.8	8.6	6.3	4.5	4.1	4.1
52.5°	694.2	428.4	28.0	21.2	14.9	9.5	6.8	4.5	3.2	2.7	2.7
55°	751.1	452.8	25.3	19.9	12.2	7.7	5.0	2.7	1.8	1.4	1.4
57.5°	790.9	462.3	22.1	17.2	9.5	5.9	3.6	1.8	0.9	0.5	0.5
60°	819.3	463.7	19.0	14.0	7.2	4.5	2.3	0.9	0.5	0.0	0.0
62.5°	843.3	466.4	16.3	10.8	5.4	3.2	1.4	0.5	0.0	0.0	0.0
65°	890.8	464.1	13.1	8.6	3.6	1.8	0.9	0.0	0.0	0.0	0.0
67.5°	928.3	441.5	10.4	5.9	2.3	0.9	0.5	0.0	0.0	0.0	0.0
70°	821.2	336.7	8.1	4.1	1.4	0.5	0.0	0.0	0.0	0.0	0.0
72.5°	644.9	224.6	5.4	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0
75°	423.0	111.6	4.1	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	164.5	29.4	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.8	9.9	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.2	3.6	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	0.9	0.5	0.5	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)