

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: P675033

Luminaire Tested: **CCW-SA-1A-835-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675033  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-835-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T3 distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2277.7 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

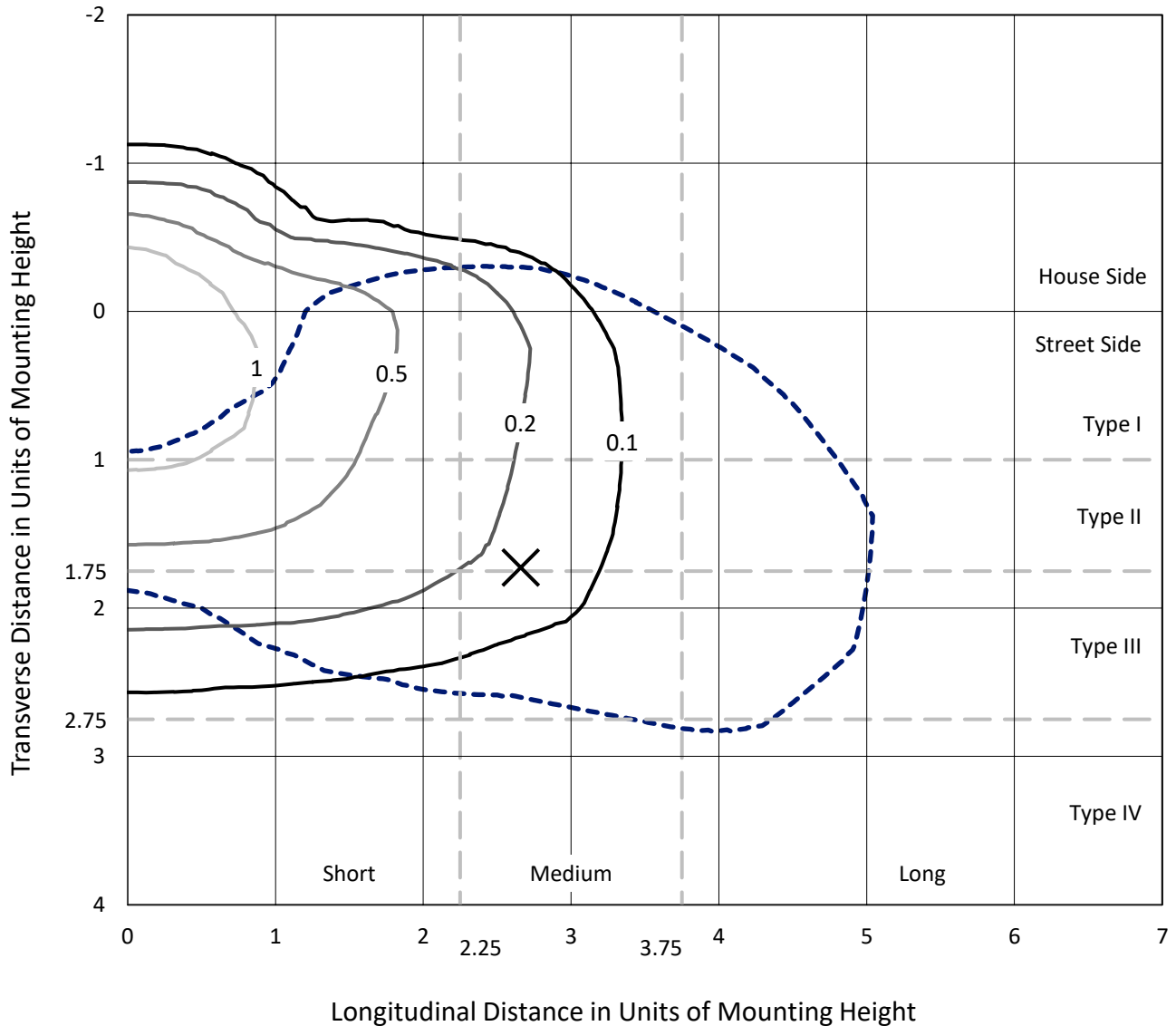
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

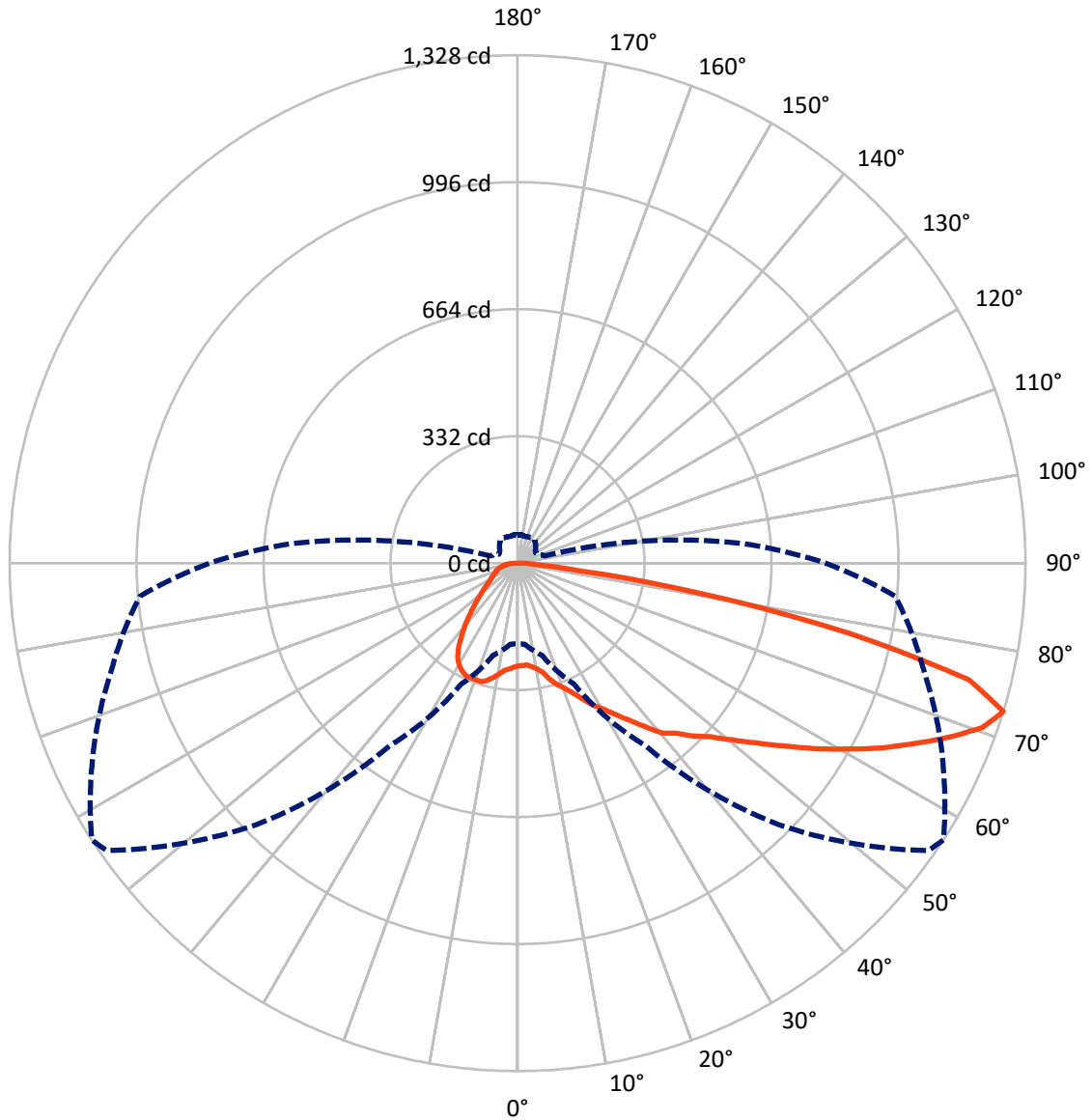
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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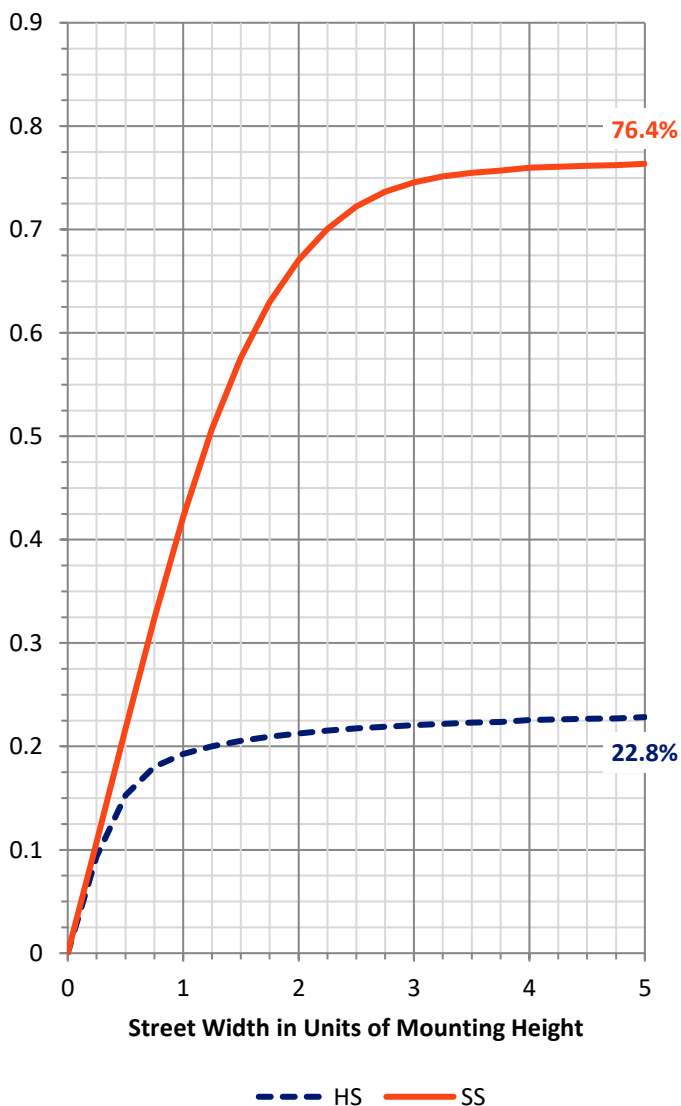
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	531.9	0.0	531.9
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	1745.8	0.0	1745.8
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2277.7	0.0	2277.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.7	1.2
10°-20°	89.9	3.9
20°-30°	164.4	7.2
30°-40°	241.2	10.6
40°-50°	332.1	14.6
50°-60°	455.4	20.0
60°-70°	549.0	24.1
70°-80°	365.7	16.1
80°-90°	53.3	2.3
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°	2277.7	100.0
0°-180°	2277.7	100.0

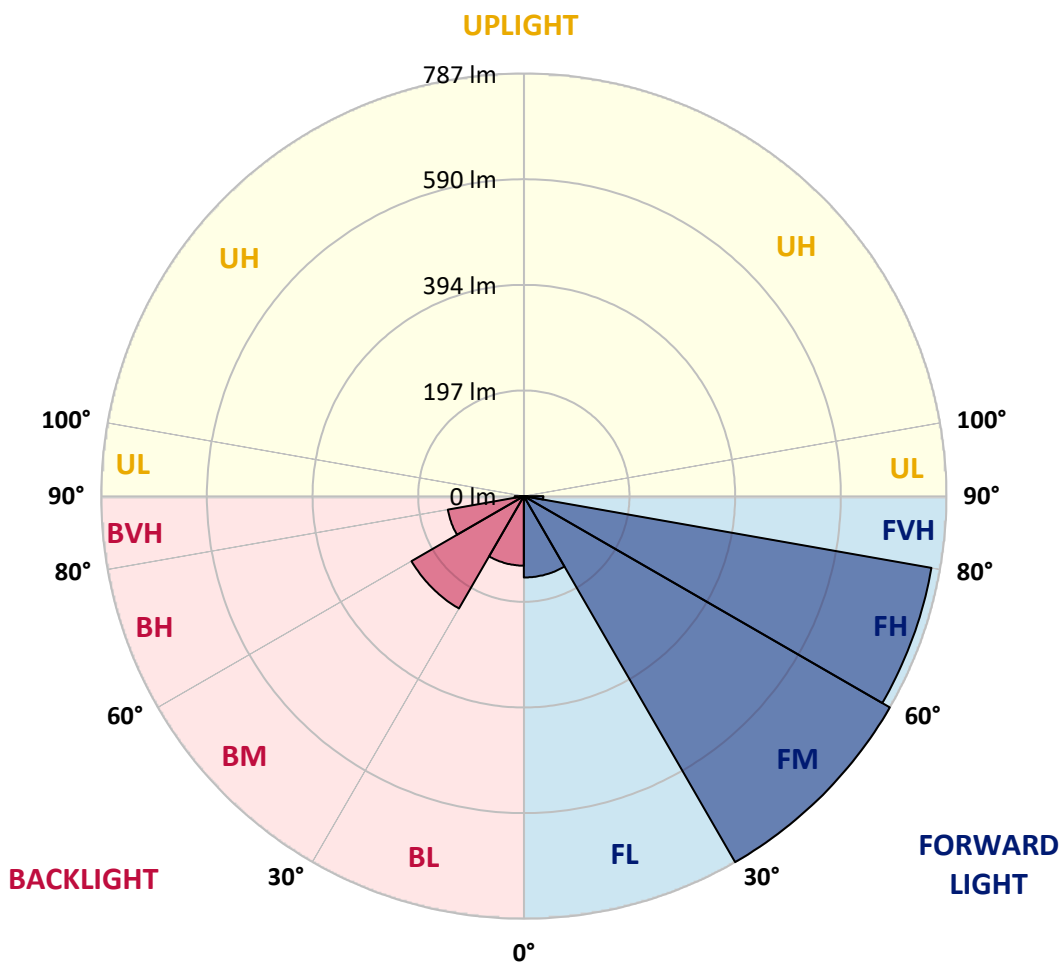


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.5	6.7			
FM (30°-60°)	787.1	34.6			
FH (60°-80°)	770.9	33.8			G1/1800
FVH (80°-90°)	36.3	1.6			G1/100
BL (0°-30°)	129.5	5.7	B1/500		
BM (30°-60°)	241.6	10.6	B1/1000		
BH (60°-80°)	143.8	6.3	B1/500		G1/500
BVH (80°-90°)	17.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8
2.5°	263.9	264.7	266.4	265.5	265.5	263.0	267.2	268.0	266.4	267.2	268.8
5°	263.9	265.5	268.0	266.4	267.2	266.4	264.7	267.2	267.2	268.0	270.5
7.5°	278.0	277.1	277.1	274.7	273.8	273.0	273.8	273.8	272.2	273.0	273.0
10°	293.7	293.7	292.1	292.1	290.4	286.3	282.1	281.3	278.8	279.6	279.6
12.5°	310.3	312.0	313.7	308.7	307.0	300.4	297.9	292.9	292.9	291.2	290.4
15°	331.1	328.6	330.2	328.6	324.4	317.8	313.7	314.5	308.7	307.0	304.5
17.5°	349.3	350.2	347.7	346.0	338.5	333.6	334.4	333.6	326.1	323.6	319.5
20°	370.9	370.1	370.1	365.1	358.5	351.8	349.3	348.5	350.2	345.2	335.2
22.5°	393.3	390.0	390.0	385.8	376.7	372.6	370.9	367.6	369.2	365.1	350.2
25°	411.6	411.6	417.4	409.1	404.1	395.8	392.5	393.3	394.1	385.8	368.4
27.5°	435.6	431.5	437.3	433.1	430.6	421.5	417.4	419.9	418.2	409.1	385.0
30°	466.3	467.2	463.8	458.0	454.7	448.1	445.6	443.1	445.6	434.0	403.3
32.5°	504.5	507.0	498.7	492.1	486.2	479.6	474.6	472.1	474.6	457.2	417.4
35°	548.5	551.0	544.3	536.9	530.2	513.6	509.5	505.3	496.2	468.0	430.6
37.5°	589.1	585.8	584.2	584.2	571.7	547.6	545.2	542.7	525.2	489.6	448.9
40°	616.5	620.7	619.0	617.3	615.7	593.3	588.3	584.2	555.1	521.9	474.6
42.5°	647.2	644.7	651.4	653.9	648.0	641.4	621.5	607.4	581.7	555.1	512.8
45°	683.7	682.1	684.6	693.7	685.4	687.9	654.7	644.7	612.4	596.6	560.9
47.5°	716.1	720.2	732.7	735.2	728.5	740.2	693.7	677.9	657.2	644.7	610.7
50°	730.2	735.2	763.4	780.8	781.6	799.9	732.7	726.0	697.8	702.8	672.9
52.5°	718.6	734.3	768.4	814.0	842.2	860.5	784.1	780.8	755.1	770.9	741.0
55°	729.4	744.3	766.7	830.6	902.0	906.1	855.5	843.0	817.3	838.9	811.5
57.5°	734.3	726.0	768.4	848.8	945.9	956.7	923.5	914.4	894.5	915.2	899.5
60°	695.3	705.3	745.1	843.9	948.4	1010.7	999.9	986.6	968.3	987.4	978.3
62.5°	651.4	658.0	701.2	814.0	962.5	1049.7	1073.7	1063.8	1038.0	1054.6	1070.4
65°	595.8	596.6	644.7	760.9	935.1	1072.1	1138.4	1137.6	1119.4	1115.2	1140.1
67.5°	527.7	534.4	572.5	704.5	897.8	1096.9	1202.3	1214.8	1178.3	1145.9	1155.0
70°	404.9	411.6	448.1	577.5	821.5	1089.5	1281.2	1287.8	1216.4	1134.3	1111.1
72.5°	210.8	212.4	249.8	348.5	582.5	967.5	1310.2	1327.6	1226.4	1100.3	990.7
75°	69.7	69.7	85.5	132.8	274.7	619.0	1186.6	1218.1	1177.4	1015.6	810.7
77.5°	41.5	42.3	50.6	66.4	109.5	247.3	836.4	892.0	963.4	863.8	592.5
80°	29.9	30.7	38.2	45.6	65.6	79.7	419.9	497.0	591.6	555.9	316.1
82.5°	22.4	22.4	29.9	34.0	44.8	47.3	117.0	160.1	255.6	199.1	87.1
85°	23.2	23.2	23.2	24.1	30.7	27.4	49.0	52.3	74.7	65.6	24.1
87.5°	8.3	9.1	23.2	15.8	15.8	11.6	19.1	20.7	26.6	27.4	9.1
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°	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8
2.5°	269.7	269.7	270.5	270.5	272.2	273.8	276.3	274.7	274.7	275.5	274.7
5°	268.8	269.7	272.2	276.3	278.0	278.8	283.8	283.8	283.8	285.4	285.4
7.5°	272.2	273.8	278.0	282.1	282.9	285.4	292.1	293.7	297.9	299.5	300.4
10°	280.5	282.9	286.3	291.2	294.6	297.9	302.9	308.7	307.8	312.8	313.7
12.5°	292.9	292.1	297.9	302.9	306.2	311.2	312.8	312.8	312.8	312.8	314.5
15°	302.9	304.5	309.5	312.8	317.0	316.1	312.8	309.5	310.3	309.5	309.5
17.5°	317.8	317.8	321.9	322.8	324.4	316.1	311.2	311.2	313.7	313.7	312.0
20°	332.7	331.9	333.6	332.7	321.9	312.0	311.2	312.0	312.8	312.0	311.2
22.5°	346.8	345.2	342.7	339.4	320.3	311.2	309.5	305.4	301.2	301.2	298.7
25°	359.3	357.6	351.0	341.0	319.5	306.2	297.9	287.9	282.9	280.5	283.8
27.5°	370.9	367.6	358.5	341.0	312.0	292.9	277.1	264.7	260.5	257.2	260.5
30°	386.7	380.9	368.4	338.5	300.4	272.2	250.6	235.7	231.5	226.5	228.2
32.5°	400.8	387.5	376.7	331.1	285.4	248.9	224.0	209.1	201.6	197.5	200.8
35°	415.7	402.4	380.0	319.5	262.2	220.7	195.8	181.7	175.9	170.1	170.1
37.5°	430.6	423.2	385.0	297.9	234.0	194.2	171.8	161.0	151.0	140.2	140.2
40°	462.2	452.2	390.8	273.0	205.8	168.4	152.7	138.6	128.6	113.7	112.8
42.5°	495.4	473.8	390.8	243.1	180.9	150.2	135.3	120.3	102.1	92.9	93.8
45°	537.7	512.8	380.0	216.6	156.0	135.3	118.7	99.6	91.3	85.5	85.5
47.5°	590.8	551.8	366.8	187.5	136.1	122.0	101.2	89.6	83.8	78.8	78.0
50°	653.9	587.5	350.2	162.6	119.5	109.5	92.1	83.0	78.0	74.7	74.7
52.5°	720.2	639.7	338.5	140.2	106.2	92.9	85.5	79.7	75.5	73.0	72.2
55°	787.4	692.0	330.2	116.2	93.8	85.5	83.8	78.8	77.2	74.7	73.0
57.5°	863.0	735.2	328.6	99.6	83.8	82.1	85.5	81.3	78.8	76.3	73.8
60°	944.3	793.3	313.7	86.3	78.8	80.5	83.0	78.8	77.2	74.7	73.0
62.5°	1024.8	836.4	273.0	76.3	73.8	75.5	78.8	75.5	73.0	73.8	74.7
65°	1058.0	839.7	211.6	68.9	68.0	68.9	73.8	73.0	70.5	75.5	75.5
67.5°	1024.8	809.9	149.4	62.2	62.2	66.4	74.7	76.3	73.8	80.5	79.7
70°	949.3	736.0	101.2	58.1	59.7	70.5	77.2	75.5	72.2	80.5	78.8
72.5°	805.7	589.1	73.8	53.9	56.4	67.2	76.3	74.7	72.2	75.5	72.2
75°	604.9	419.0	58.1	49.0	49.8	60.6	78.8	74.7	68.0	66.4	63.9
77.5°	404.1	258.9	44.8	43.1	43.1	53.1	75.5	69.7	61.4	58.9	58.1
80°	192.5	103.7	35.7	36.5	37.3	45.6	68.9	62.2	55.6	52.3	52.3
82.5°	61.4	39.0	29.9	29.9	29.9	37.3	57.3	52.3	48.1	45.6	41.5
85°	21.6	21.6	25.7	26.6	24.1	27.4	47.3	44.8	39.8	33.2	32.4
87.5°	8.3	12.4	17.4	20.7	14.9	19.1	34.0	31.5	29.0	21.6	20.7
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)