

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: P683167

Luminaire Tested: **CCP-SA-2-AMB-U-RW**

Issue Date: 04/26/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P683167  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2-AMB-U-RW  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @500mA w/ RW distribution lens  
Light Source: (16) 1620 CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

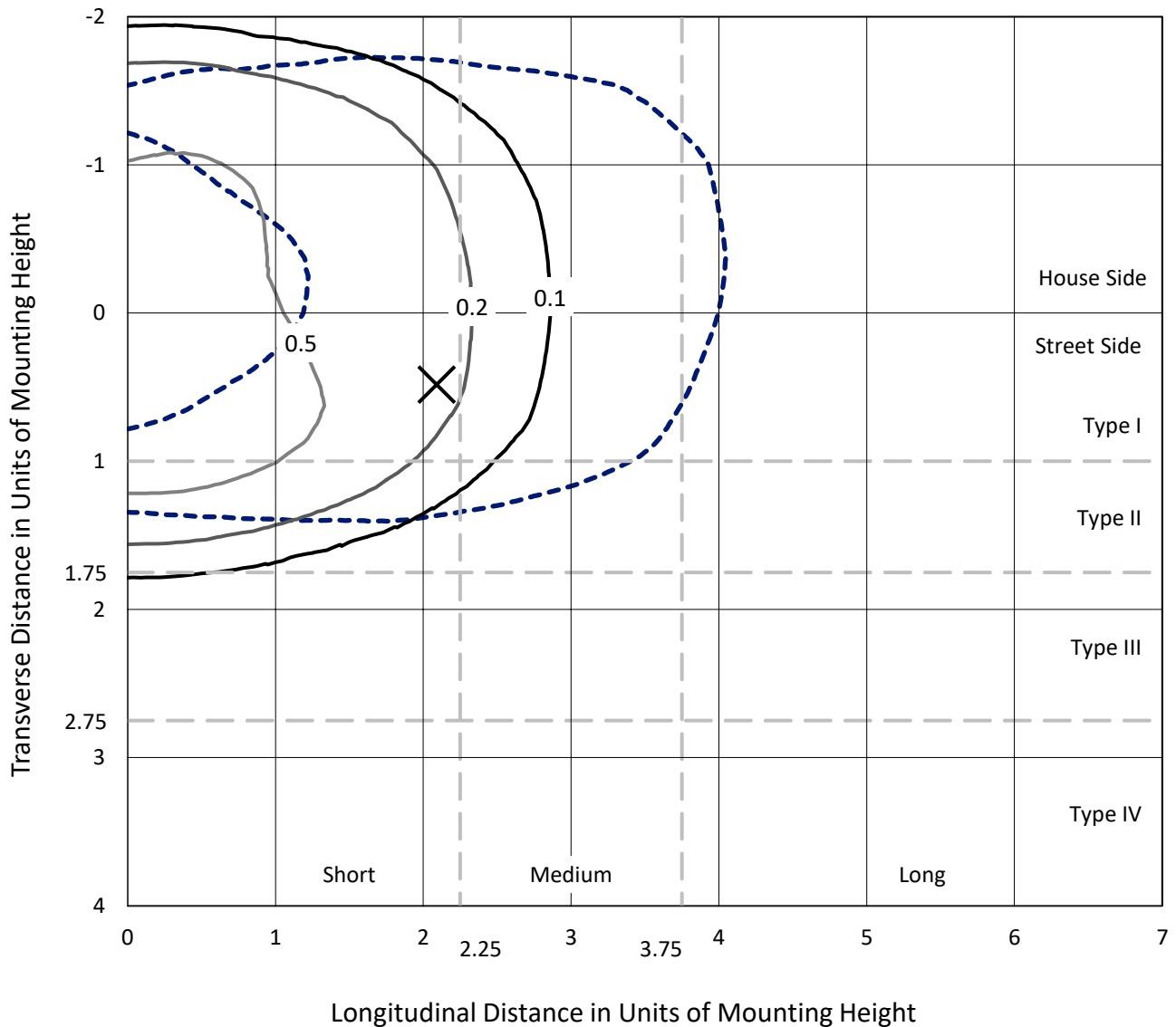
Lumens per Lamp: N/A  
Luminaire Lumens: 1704.1 lumens  
Efficiency: N/A  
Efficacy: 42.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 40.2  
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

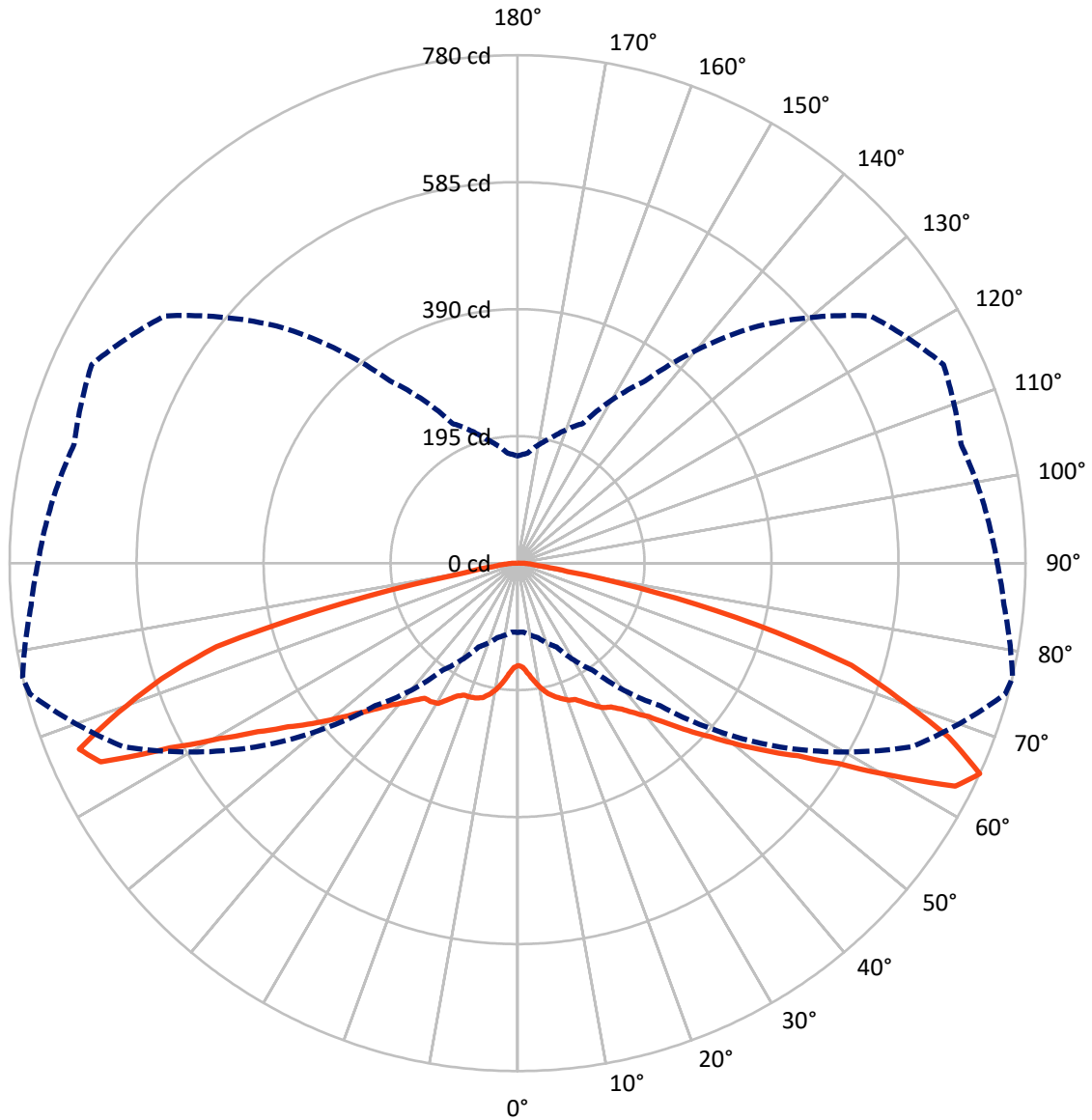
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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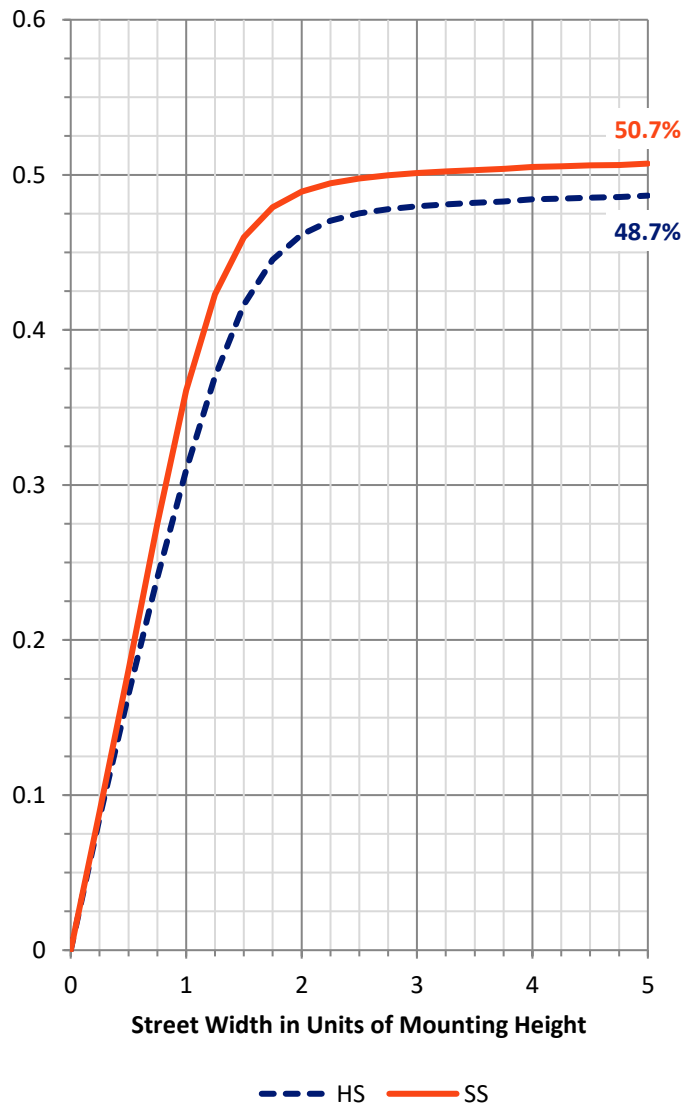
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	836.2	0.0	836.2
	% Fixture	49.1	0.0	49.1
<b>Street Side</b>	Lumens	867.9	0.0	867.9
	% Fixture	50.9	0.0	50.9
<b>Total</b>	Lumens	1704.1	0.0	1704.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.2	0.9
10°-20°	55.1	3.2
20°-30°	106.2	6.2
30°-40°	184.4	10.8
40°-50°	306.7	18.0
50°-60°	425.6	25.0
60°-70°	411.5	24.1
70°-80°	177.4	10.4
80°-90°	21.2	1.2
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°	1704.1	100.0
0°-180°	1704.1	100.0



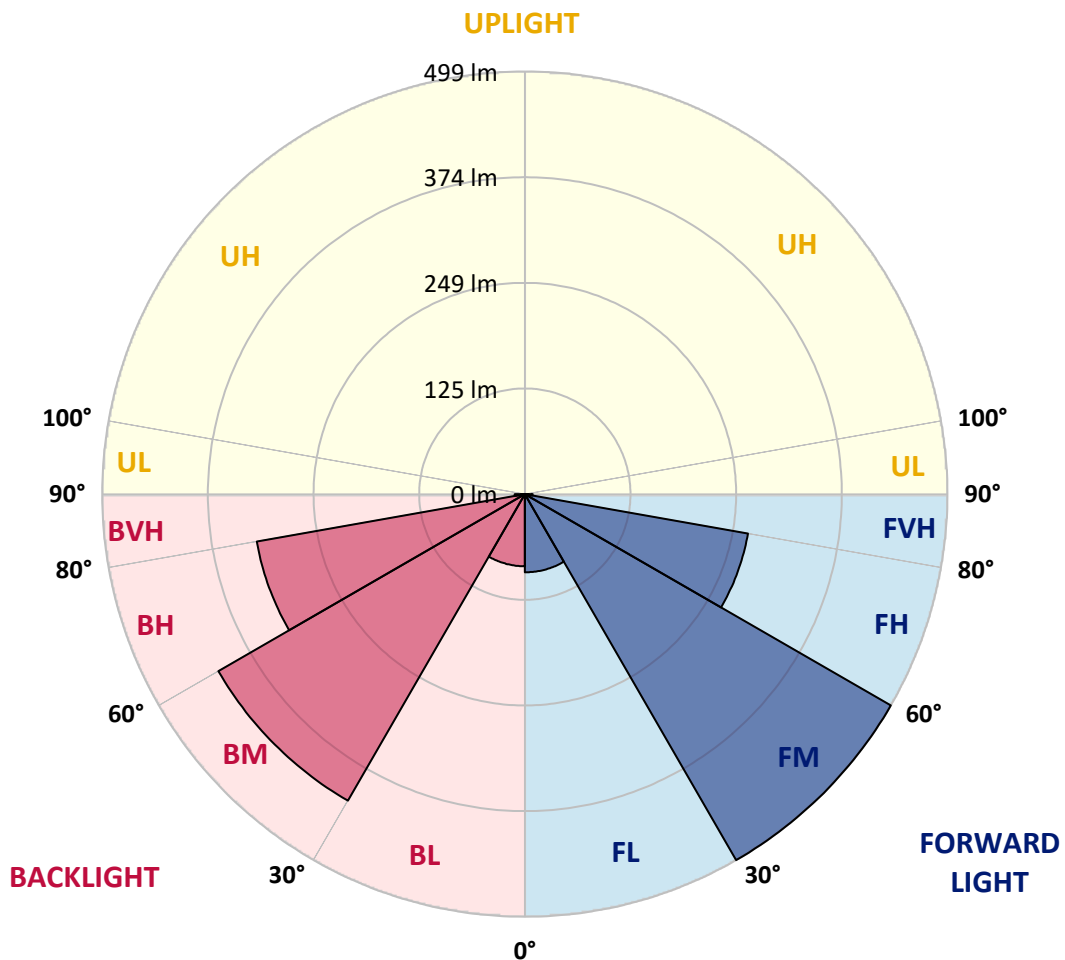
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	92.3	5.4			
FM (30°-60°)	498.9	29.3			
FH (60°-80°)	267.5	15.7			G0/660
FVH (80°-90°)	9.2	0.5			G0/10
BL (0°-30°)	85.1	5.0	B0/110		
BM (30°-60°)	417.8	24.5	B1/1000		
BH (60°-80°)	321.3	18.9	B1/500		G1/500
BVH (80°-90°)	12.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2.5°	157.1	158.6	158.6	158.6	158.6	160.1	160.1	160.1	160.1	160.1	161.6
5°	158.6	160.1	160.1	160.1	163.1	166.1	167.6	169.1	170.6	170.6	170.6
7.5°	160.1	161.6	161.6	164.6	167.6	172.1	176.6	179.6	182.5	182.5	184.0
10°	163.1	163.1	164.6	167.6	173.6	179.6	185.5	190.0	194.5	194.5	197.5
12.5°	166.1	167.6	169.1	173.6	181.1	188.5	194.5	199.0	203.5	205.0	206.5
15°	172.1	173.6	176.6	182.5	191.5	199.0	203.5	208.0	212.5	212.5	215.5
17.5°	181.1	182.5	185.5	193.0	202.0	211.0	215.5	215.5	218.5	218.5	221.4
20°	190.0	191.5	196.0	203.5	214.0	222.9	227.4	224.4	224.4	224.4	224.4
22.5°	203.5	205.0	211.0	218.5	227.4	234.9	237.9	233.4	228.9	227.4	227.4
25°	220.0	221.4	227.4	236.4	245.4	251.4	249.9	246.9	237.9	236.4	233.4
27.5°	242.4	243.9	249.9	254.4	261.8	267.8	264.8	257.4	248.4	246.9	245.4
30°	270.8	272.3	278.3	281.3	284.3	287.3	281.3	267.8	257.4	257.4	258.9
32.5°	305.2	306.7	312.7	314.2	312.7	308.2	297.8	282.8	264.8	263.3	260.4
35°	341.2	342.6	348.6	350.1	345.6	338.2	320.2	302.2	279.8	275.3	264.8
37.5°	380.1	386.0	392.0	390.5	387.5	377.1	353.1	324.7	296.3	291.8	278.3
40°	416.0	422.0	430.9	435.4	429.4	411.5	387.5	350.1	315.7	309.7	294.8
42.5°	447.4	451.9	463.8	471.3	471.3	454.9	426.4	384.5	341.2	335.2	315.7
45°	463.8	469.8	484.8	502.8	510.2	501.3	466.8	420.5	374.1	366.6	339.7
47.5°	469.8	474.3	493.8	519.2	540.2	541.7	510.2	457.9	408.5	398.0	371.1
50°	445.9	451.9	477.3	516.2	553.6	574.6	562.6	499.8	445.9	436.9	402.5
52.5°	411.5	413.0	439.9	486.3	544.6	595.5	607.5	553.6	489.3	478.8	436.9
55°	344.1	348.6	377.1	432.4	508.7	594.0	638.9	615.0	538.7	522.2	478.8
57.5°	279.8	278.3	308.2	359.1	444.4	555.1	655.4	674.8	601.5	580.6	525.2
60°	206.5	211.0	230.4	282.8	368.1	493.8	634.4	718.2	688.3	662.9	592.5
62.5°	152.6	151.1	169.1	208.0	276.8	410.0	580.6	724.2	767.6	754.1	685.3
65°	106.2	106.2	118.2	142.1	200.5	309.7	492.3	667.3	775.1	779.6	749.6
67.5°	74.8	73.3	77.8	94.3	133.2	224.4	384.5	559.6	706.2	713.7	719.7
70°	58.4	56.9	58.4	64.3	80.8	143.6	270.8	450.4	613.5	619.5	631.4
72.5°	50.9	50.9	49.4	47.9	52.4	83.8	170.6	330.7	513.2	535.7	565.6
75°	46.4	44.9	43.4	41.9	40.4	44.9	92.8	208.0	363.6	378.6	432.4
77.5°	38.9	38.9	37.4	35.9	34.4	32.9	41.9	98.8	197.5	217.0	230.4
80°	31.4	31.4	31.4	29.9	26.9	26.9	28.4	38.9	67.3	77.8	83.8
82.5°	22.4	20.9	25.4	23.9	20.9	19.5	20.9	25.4	31.4	32.9	28.4
85°	16.5	15.0	16.5	16.5	15.0	12.0	15.0	16.5	19.5	20.9	15.0
87.5°	7.5	7.5	9.0	7.5	7.5	4.5	7.5	7.5	10.5	10.5	6.0
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°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2.5°	160.1	160.1	160.1	160.1	158.6	157.1	157.1	157.1	155.6	155.6	155.6
5°	172.1	170.6	170.6	167.6	166.1	164.6	161.6	160.1	157.1	155.6	157.1
7.5°	185.5	185.5	184.0	181.1	176.6	172.1	166.1	163.1	158.6	155.6	157.1
10°	197.5	197.5	196.0	191.5	185.5	178.1	170.6	164.6	160.1	157.1	157.1
12.5°	208.0	208.0	205.0	200.5	191.5	184.0	176.6	169.1	161.6	157.1	157.1
15°	215.5	215.5	212.5	205.0	199.0	191.5	184.0	175.1	166.1	160.1	160.1
17.5°	221.4	220.0	215.5	209.5	205.0	199.0	191.5	181.1	170.6	164.6	163.1
20°	224.4	222.9	217.0	212.5	211.0	206.5	200.5	188.5	175.1	167.6	167.6
22.5°	225.9	224.4	217.0	215.5	217.0	215.5	208.0	197.5	182.5	173.6	172.1
25°	231.9	228.9	222.9	222.9	224.4	227.4	220.0	208.0	190.0	179.6	179.6
27.5°	243.9	240.9	233.4	233.4	234.9	236.4	231.9	218.5	199.0	187.0	187.0
30°	257.4	255.9	245.4	242.4	245.4	249.9	243.9	228.9	208.0	197.5	196.0
32.5°	258.9	258.9	248.4	248.4	255.9	258.9	252.9	242.4	221.4	211.0	209.5
35°	260.4	258.9	249.9	258.9	267.8	272.3	269.3	258.9	240.9	230.4	228.9
37.5°	272.3	267.8	261.8	273.8	282.8	285.8	284.3	276.8	260.4	249.9	248.4
40°	288.8	284.3	276.8	288.8	299.3	303.7	303.7	299.3	284.3	273.8	272.3
42.5°	306.7	300.8	291.8	305.2	317.2	326.2	330.7	327.7	312.7	300.8	297.8
45°	329.2	323.2	312.7	326.2	339.7	357.6	362.1	360.6	341.2	327.7	323.2
47.5°	356.1	345.6	336.7	348.6	372.6	390.5	396.5	390.5	374.1	354.6	350.1
50°	386.0	378.6	365.1	380.1	402.5	424.9	426.4	416.0	401.0	386.0	381.6
52.5°	422.0	413.0	396.5	411.5	435.4	460.9	454.9	445.9	435.4	419.0	407.0
55°	462.4	451.9	427.9	450.4	469.8	490.8	489.3	477.3	450.4	422.0	410.0
57.5°	510.2	496.8	469.8	489.3	508.7	537.2	519.2	465.3	429.4	395.0	384.5
60°	573.1	556.6	523.7	538.7	570.1	583.5	504.2	424.9	374.1	326.2	318.7
62.5°	664.3	643.4	594.0	619.5	647.9	577.6	445.9	335.2	273.8	240.9	233.4
65°	736.2	725.7	704.7	721.2	661.4	511.7	341.2	236.4	199.0	169.1	164.6
67.5°	734.7	733.2	730.2	709.2	568.6	395.0	242.4	157.1	125.7	106.2	103.2
70°	643.4	646.4	655.4	600.0	439.9	273.8	151.1	89.8	77.8	67.3	65.8
72.5°	582.1	574.6	574.6	505.7	309.7	160.1	76.3	55.4	53.9	52.4	53.9
75°	462.4	477.3	480.3	368.1	167.6	70.3	46.4	44.9	46.4	46.4	47.9
77.5°	261.8	282.8	273.8	173.6	64.3	38.9	35.9	38.9	40.4	41.9	41.9
80°	83.8	92.8	85.3	58.4	35.9	28.4	29.9	32.9	35.9	37.4	38.9
82.5°	23.9	31.4	38.9	32.9	25.4	22.4	25.4	29.9	34.4	34.4	34.4
85°	13.5	15.0	23.9	20.9	18.0	13.5	20.9	26.9	31.4	25.4	23.9
87.5°	6.0	6.0	12.0	10.5	7.5	7.5	18.0	16.5	18.0	9.0	7.5
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)