

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: P671323

Luminaire Tested: **CCP-SA-1A-850-U-SL2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671323  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-850-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ SL2 distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

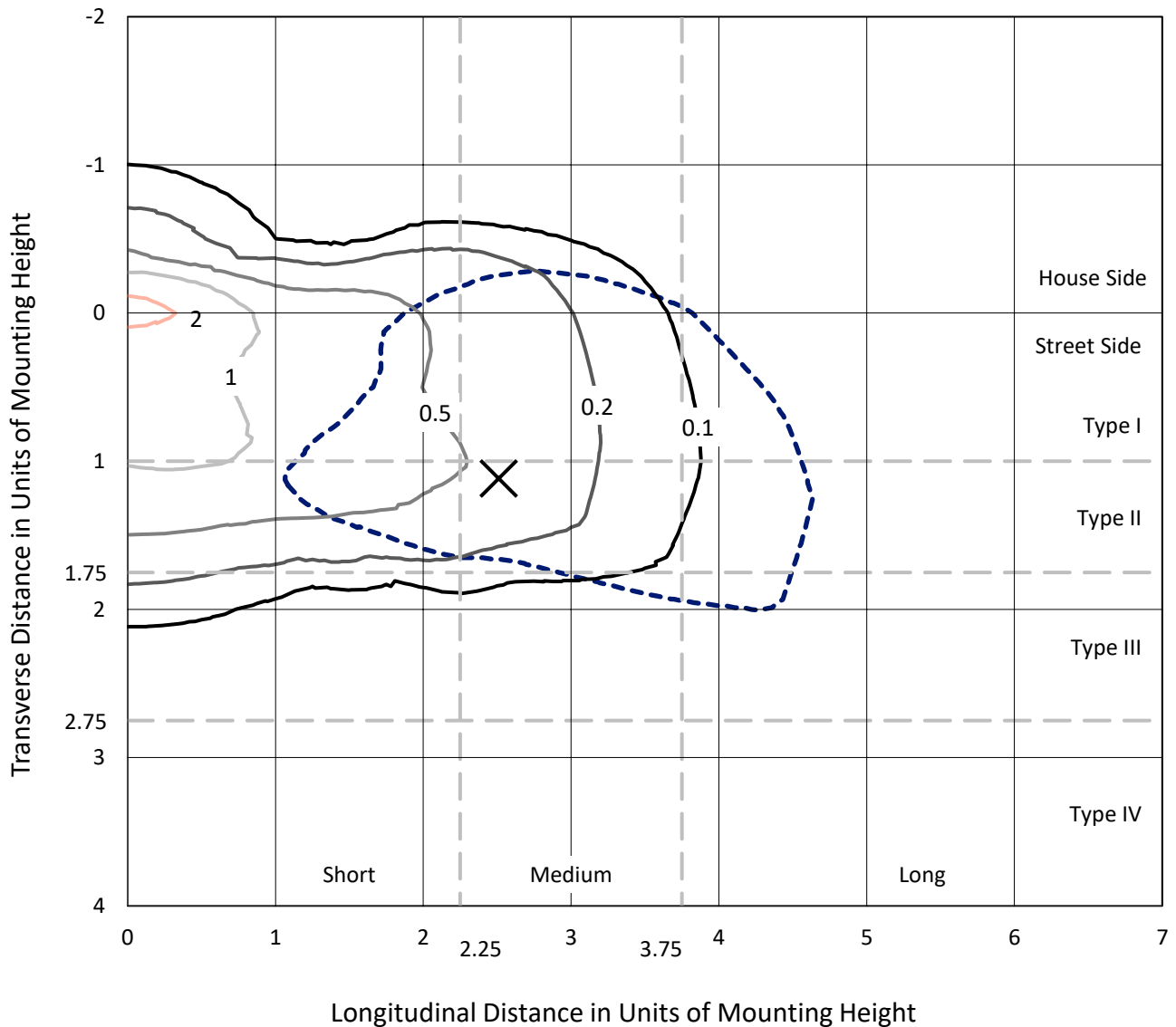
Lumens per Lamp: N/A  
Luminaire Lumens: 2362.7 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

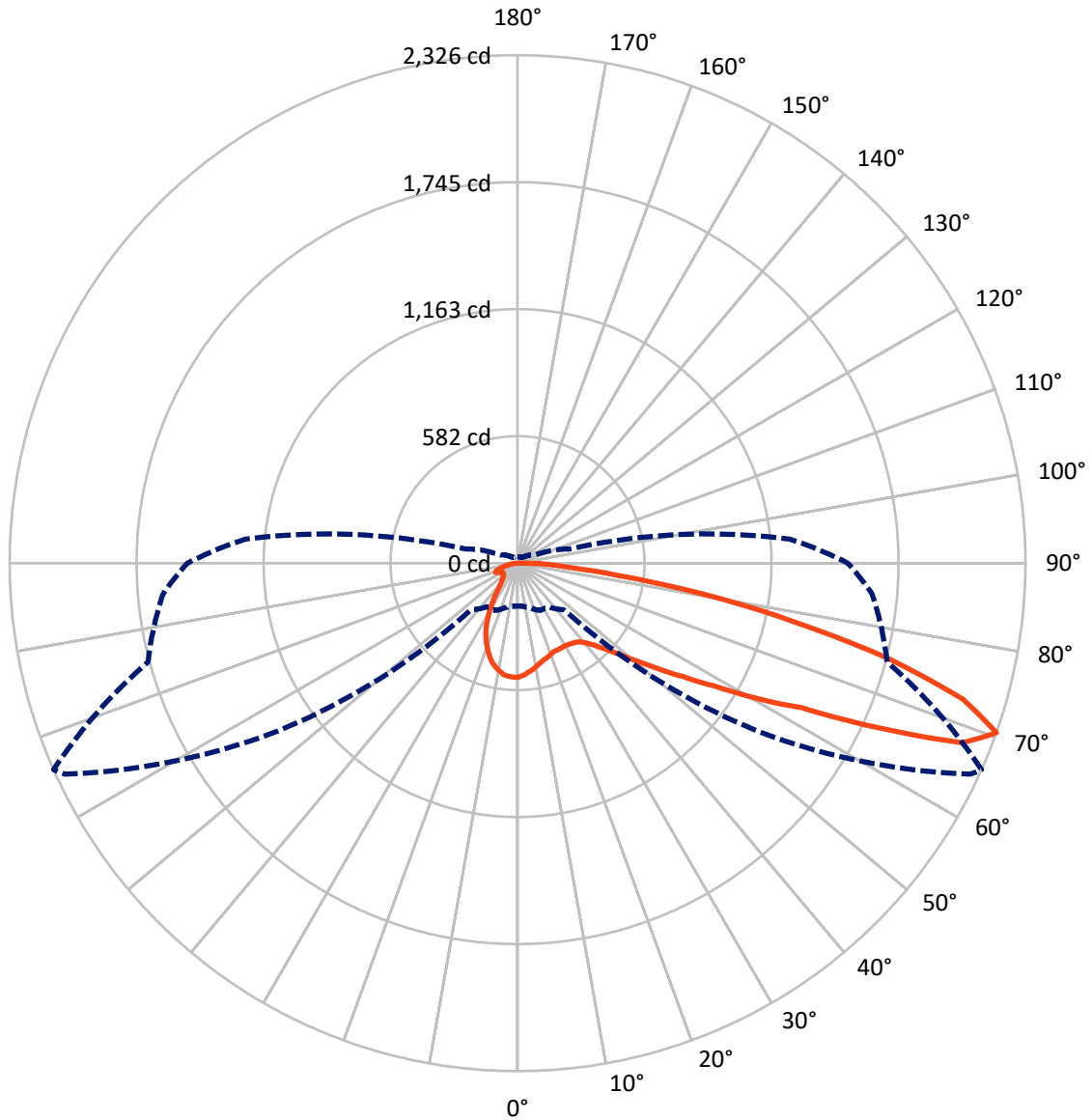
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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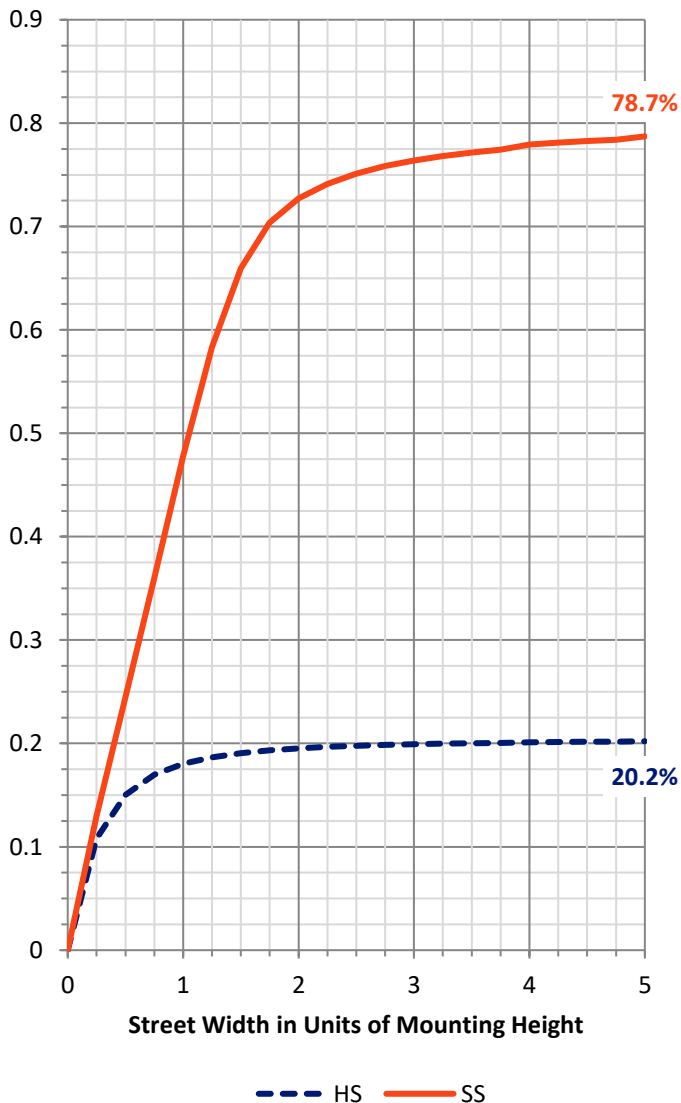
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	483.6	0.0	483.6
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	1879.1	0.0	1879.1
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	2362.7	0.0	2362.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.2	2.0
10°-20°	113.6	4.8
20°-30°	156.0	6.6
30°-40°	209.2	8.9
40°-50°	303.6	12.8
50°-60°	461.4	19.5
60°-70°	569.9	24.1
70°-80°	423.8	17.9
80°-90°	79.0	3.3
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°	2362.7	100.0
0°-180°	2362.7	100.0



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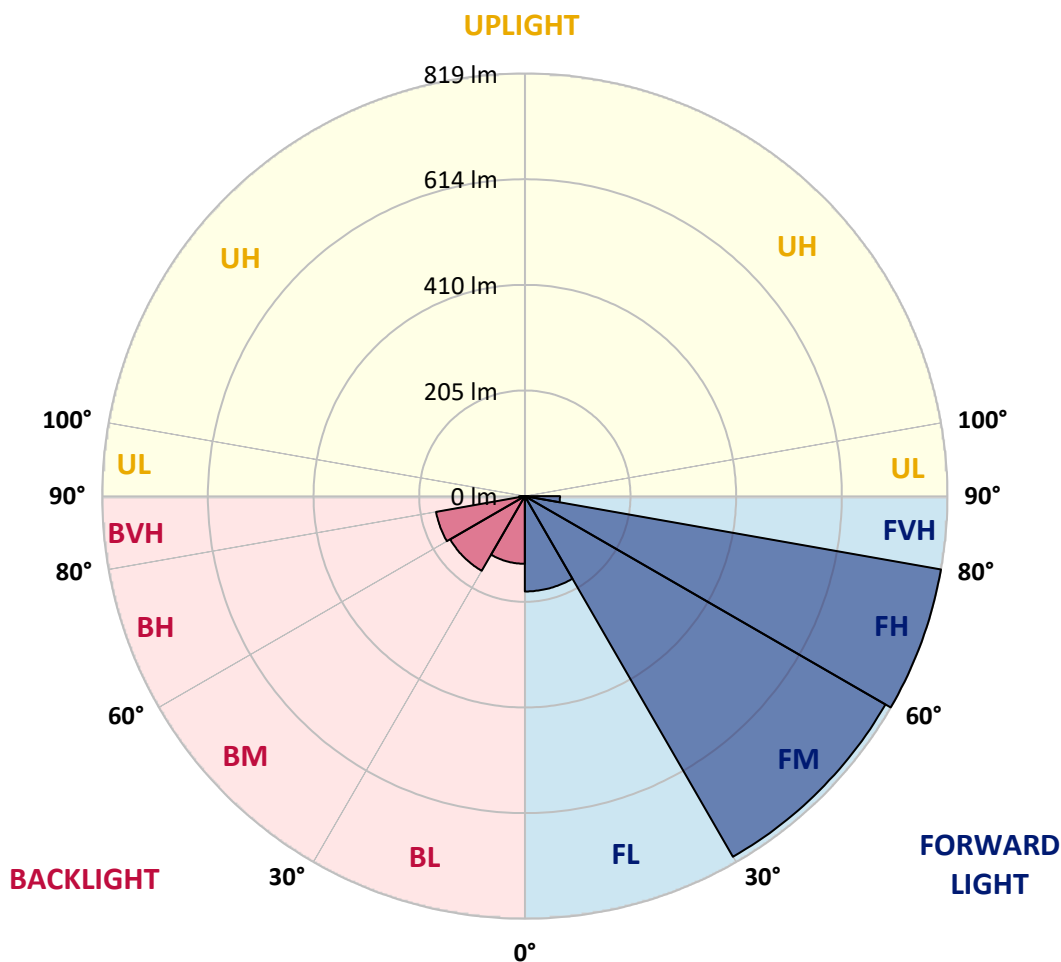
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.7	7.8			
FM (30°-60°)	807.1	34.2			
FH (60°-80°)	819.1	34.7			G1/1800
FVH (80°-90°)	68.1	2.9			G1/100
BL (0°-30°)	131.1	5.5	B1/500		
BM (30°-60°)	167.1	7.1	B0/220		
BH (60°-80°)	174.6	7.4	B1/500		G1/500
BVH (80°-90°)	10.9	0.5			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°	65°	66°	75°	85°
0°	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
2.5°	496.5	499.1	500.0	501.8	506.2	509.7	515.0	517.6	515.0	518.5	518.5
5°	462.2	458.7	467.5	471.0	476.3	483.3	495.6	505.3	502.7	513.2	522.0
7.5°	433.2	433.2	435.9	443.8	449.9	460.5	473.7	488.6	493.0	507.0	520.2
10°	406.9	410.4	410.4	422.7	426.2	438.5	460.5	478.9	479.8	503.5	522.0
12.5°	392.8	391.0	399.8	403.4	413.9	426.2	443.8	466.6	467.5	493.0	518.5
15°	381.4	383.1	387.5	396.3	406.0	415.7	432.4	453.4	457.8	487.7	516.7
17.5°	382.3	383.1	383.1	389.3	397.2	408.6	424.4	449.0	451.7	480.7	514.1
20°	387.5	384.0	386.7	389.3	394.6	405.1	418.3	439.4	442.0	479.8	520.2
22.5°	399.0	396.3	395.4	394.6	393.7	399.8	416.5	434.1	436.7	475.4	522.9
25°	417.4	416.5	410.4	404.2	399.8	399.8	413.0	438.5	437.6	475.4	524.6
27.5°	439.4	439.4	438.5	427.1	413.9	406.9	415.7	436.7	435.9	475.4	529.0
30°	469.3	469.3	466.6	456.1	432.4	412.1	417.4	435.0	437.6	471.9	525.5
32.5°	501.8	500.9	503.5	493.9	469.3	436.7	428.0	438.5	441.1	475.4	526.4
35°	525.5	530.8	539.6	530.8	506.2	462.2	442.9	445.5	447.3	476.3	529.9
37.5°	552.7	558.9	571.2	578.2	551.9	500.9	466.6	457.0	457.0	487.7	530.8
40°	592.3	586.1	607.2	619.5	609.0	548.3	503.5	478.0	478.9	502.7	542.2
42.5°	621.3	627.4	649.4	671.4	658.2	606.3	544.0	512.3	512.3	524.6	559.8
45°	653.8	660.8	691.6	717.9	727.6	675.8	599.3	561.5	559.8	567.7	591.4
47.5°	689.8	699.5	734.6	765.4	790.9	747.8	670.5	621.3	620.4	626.6	644.1
50°	731.1	734.6	763.6	819.9	870.9	843.6	757.5	705.6	701.3	703.9	727.6
52.5°	743.4	740.8	774.2	834.8	928.0	960.5	876.1	801.4	799.7	793.5	824.3
55°	698.6	707.4	739.9	817.2	974.5	1098.5	1006.2	932.4	916.5	899.9	936.8
57.5°	609.0	609.9	646.8	738.2	938.5	1212.7	1226.8	1060.7	1061.5	1016.7	1058.9
60°	473.7	471.0	500.0	582.6	835.7	1247.8	1467.5	1265.4	1256.6	1133.6	1172.3
62.5°	341.8	336.6	342.7	391.0	624.8	1194.2	1703.9	1494.8	1457.9	1253.1	1283.0
65°	281.2	283.8	286.5	289.1	350.6	985.1	1776.9	1869.1	1819.9	1392.8	1405.1
67.5°	232.9	234.6	246.1	261.9	260.1	581.7	1692.5	2215.4	2196.9	1566.0	1510.6
70°	197.7	196.8	210.0	239.0	243.4	302.3	1340.1	2286.5	2326.1	1752.3	1630.1
72.5°	158.2	159.9	171.4	210.0	239.0	254.8	771.6	2133.6	2132.8	1895.5	1566.0
75°	113.4	113.4	129.2	174.0	231.1	252.2	427.1	1732.0	1764.6	1781.2	1358.6
77.5°	74.7	78.2	90.5	130.1	217.1	246.9	270.7	1259.3	1299.7	1332.2	1039.6
80°	51.0	52.7	60.6	90.5	183.7	248.7	221.4	847.1	862.9	735.5	421.8
82.5°	30.8	31.6	40.4	63.3	131.8	236.4	208.3	467.5	457.8	222.3	121.3
85°	16.7	17.6	25.5	42.2	87.0	206.5	204.8	229.4	213.5	81.7	51.0
87.5°	6.2	6.2	11.4	21.1	50.1	141.5	178.4	136.2	127.4	41.3	23.7
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°	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
2.5°	522.9	522.9	522.9	522.9	522.0	518.5	521.1	520.2	515.0	515.8	512.3
5°	521.1	525.5	522.9	519.3	515.0	504.4	500.9	498.3	491.2	488.6	491.2
7.5°	525.5	522.0	520.2	514.1	496.5	486.8	474.5	459.6	449.0	446.4	449.0
10°	524.6	524.6	516.7	499.1	482.4	454.3	438.5	412.1	397.2	392.8	393.7
12.5°	521.1	523.7	511.4	483.3	451.7	417.4	388.4	360.3	333.9	323.4	321.6
15°	524.6	522.0	500.0	464.0	420.0	372.6	330.4	289.1	264.5	248.7	245.2
17.5°	519.3	516.7	485.1	437.6	378.7	318.1	265.4	220.6	196.0	189.8	189.8
20°	525.5	508.8	467.5	406.0	335.7	258.4	198.6	165.2	159.1	159.1	160.8
22.5°	524.6	507.0	452.6	375.2	283.8	195.1	147.6	138.0	138.8	145.9	145.0
25°	519.3	503.5	431.5	341.0	229.4	146.8	122.1	119.5	125.7	133.6	132.7
27.5°	518.5	493.9	412.1	300.5	174.9	116.0	106.3	106.3	112.5	119.5	118.6
30°	513.2	486.0	388.4	254.8	131.8	101.1	97.5	97.5	100.2	103.7	103.7
32.5°	512.3	475.4	362.0	207.4	105.5	91.4	89.6	90.5	90.5	92.3	91.4
35°	505.3	461.3	334.8	160.8	91.4	86.1	84.4	83.5	83.5	82.6	82.6
37.5°	502.7	452.6	306.7	124.8	85.2	81.7	80.0	77.3	76.5	76.5	75.6
40°	505.3	443.8	279.4	101.1	80.0	78.2	75.6	72.1	71.2	71.2	71.2
42.5°	515.0	442.9	251.3	87.9	77.3	74.7	71.2	67.7	66.8	67.7	66.8
45°	536.9	449.9	224.1	81.7	73.8	71.2	66.8	64.1	63.3	64.1	64.1
47.5°	573.0	469.3	199.5	78.2	71.2	67.7	63.3	60.6	60.6	60.6	60.6
50°	632.7	506.2	175.8	75.6	69.4	65.0	60.6	57.1	56.2	56.2	57.1
52.5°	722.3	569.4	156.4	73.8	66.8	61.5	57.1	54.5	52.7	51.8	52.7
55°	830.4	661.7	150.3	72.1	63.3	58.9	54.5	51.0	49.2	49.2	48.3
57.5°	946.4	763.6	160.8	70.3	60.6	55.4	51.0	47.5	45.7	44.8	44.8
60°	1072.1	884.0	199.5	69.4	58.0	51.8	47.5	44.8	42.2	41.3	41.3
62.5°	1186.3	993.0	268.9	68.5	56.2	48.3	43.9	40.4	38.7	37.8	37.8
65°	1316.4	1114.3	336.6	72.1	55.4	45.7	40.4	36.9	35.2	34.3	34.3
67.5°	1429.7	1219.7	376.1	80.8	58.0	42.2	36.0	33.4	32.5	31.6	31.6
70°	1512.3	1252.2	252.2	88.8	62.4	39.5	32.5	30.8	29.0	29.0	29.0
72.5°	1401.6	1117.8	149.4	83.5	58.9	36.9	29.0	27.2	26.4	26.4	25.5
75°	1198.6	951.7	115.1	67.7	47.5	31.6	25.5	23.7	22.8	22.8	22.0
77.5°	884.9	681.9	85.2	53.6	36.9	25.5	22.0	21.1	20.2	19.3	19.3
80°	346.2	298.8	58.0	39.5	27.2	20.2	18.5	17.6	16.7	15.8	15.8
82.5°	107.2	90.5	33.4	26.4	19.3	15.8	14.9	14.1	13.2	12.3	12.3
85°	46.6	44.8	22.0	16.7	13.2	10.5	10.5	9.7	8.8	7.9	7.9
87.5°	22.8	22.0	12.3	7.9	7.0	5.3	5.3	4.4	3.5	3.5	3.5
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)