

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: P673512

Luminaire Tested: **CCP-SA-2A-722-U-T4W-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673512  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-722-U-T4W-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T4W distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

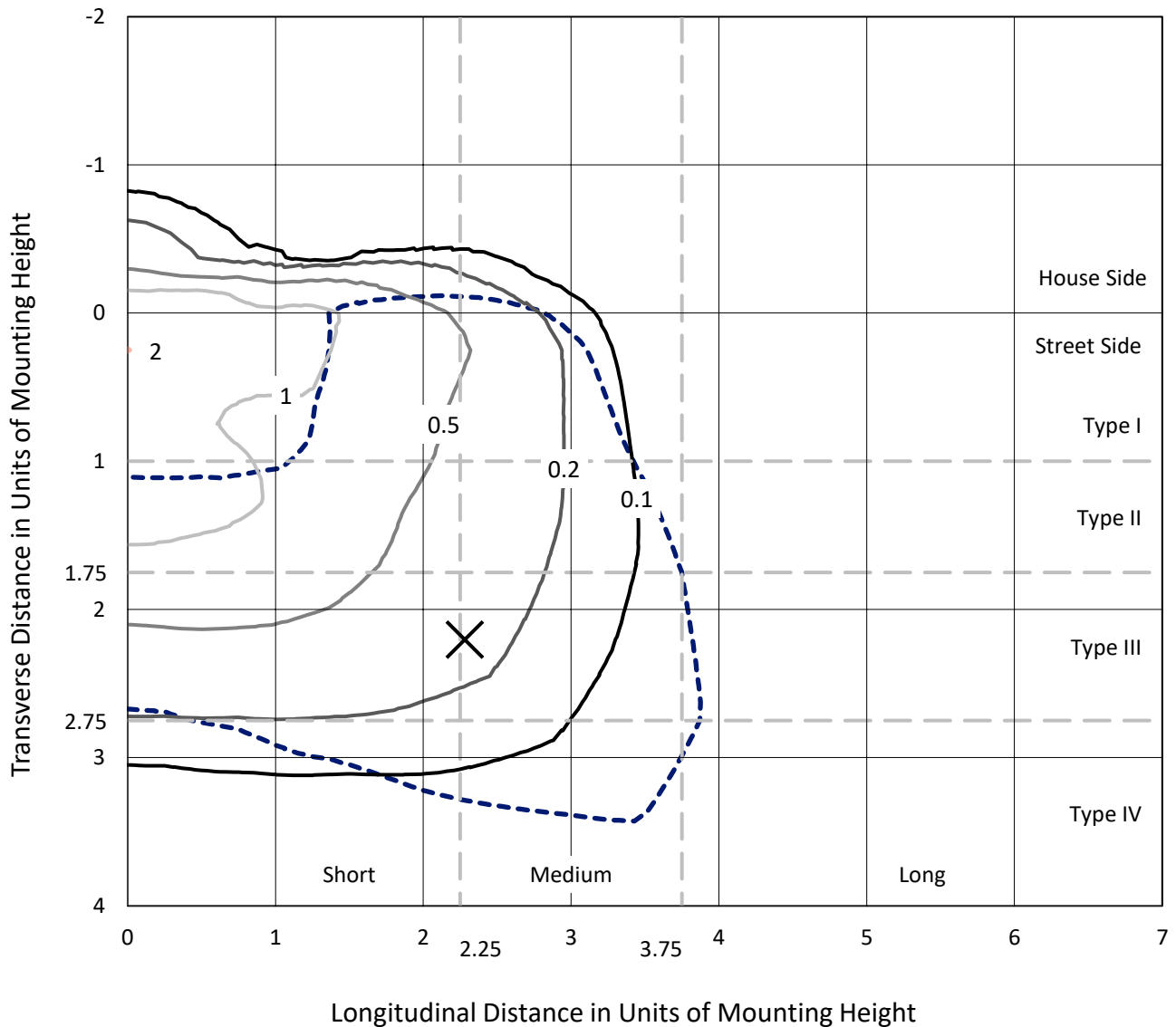
Lumens per Lamp: N/A  
Luminaire Lumens: 2907.9 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 36.2  
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

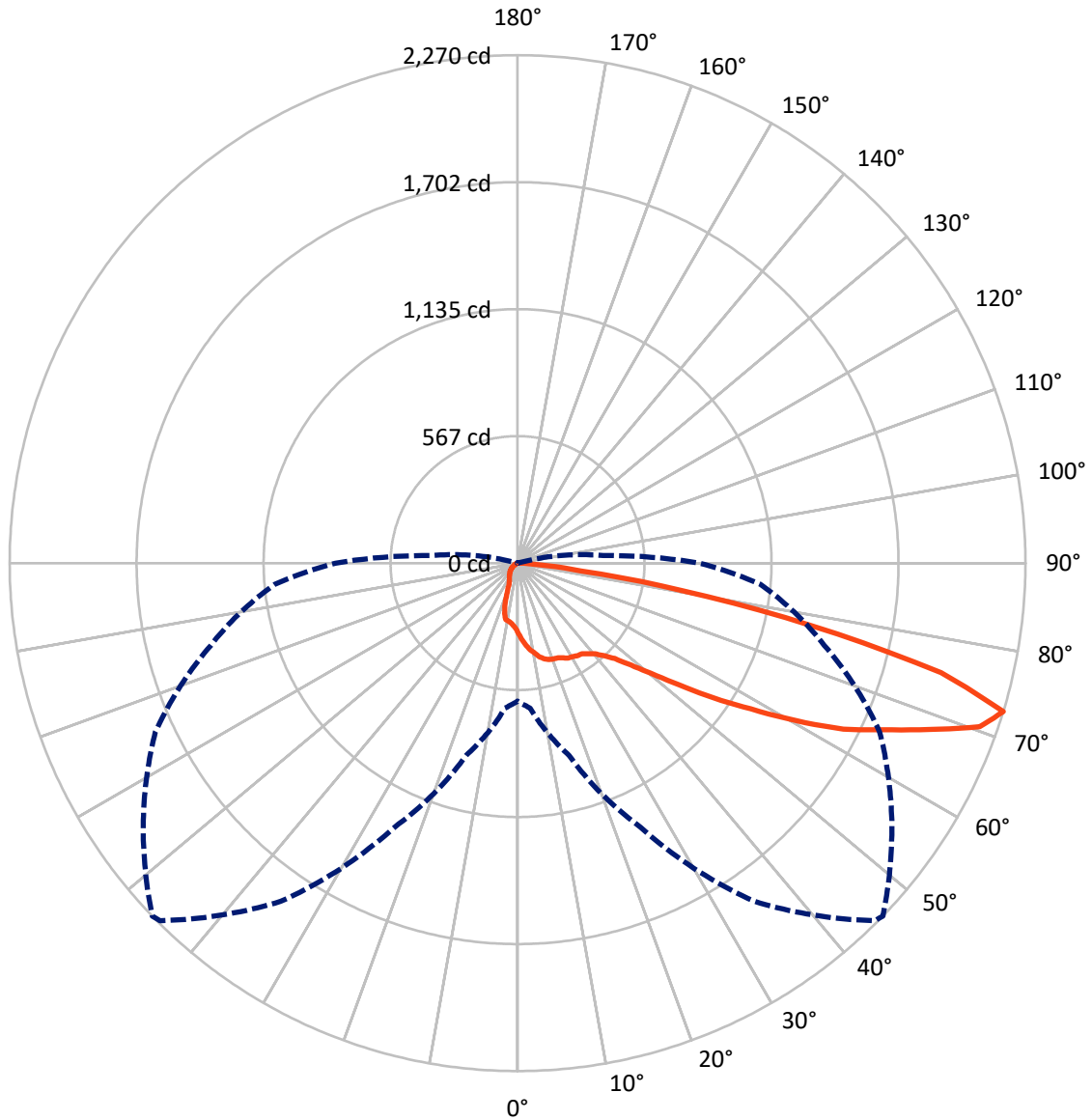
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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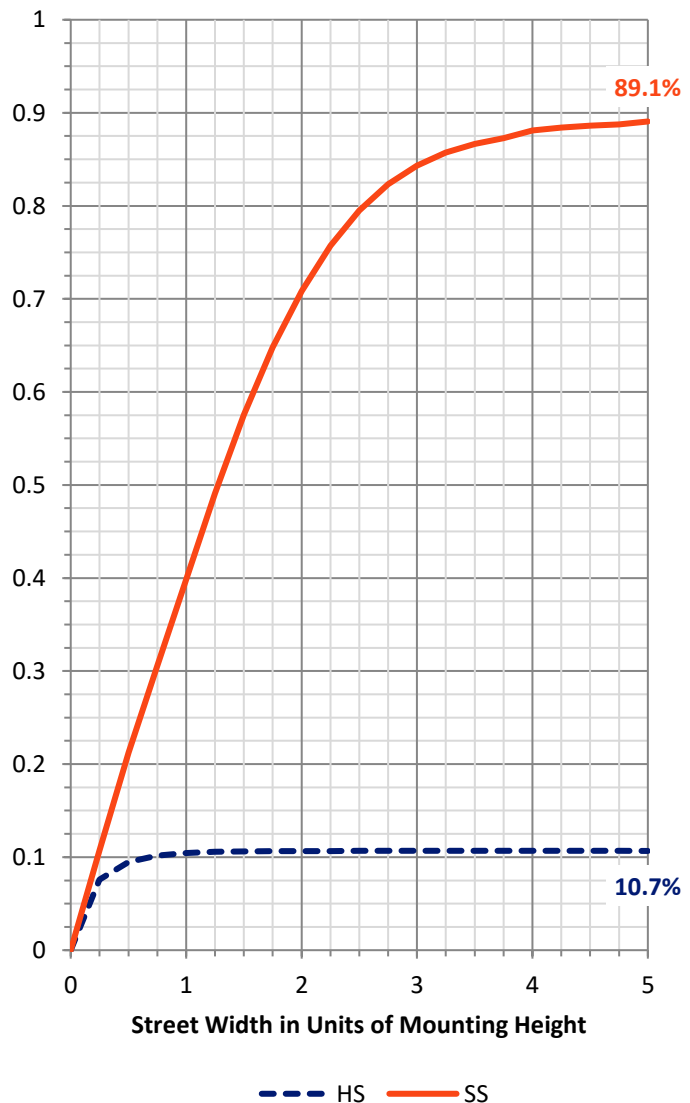
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	313.1	0.0	313.1
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2594.8	0.0	2594.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2907.9	0.0	2907.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.1	1.1
10°-20°	93.9	3.2
20°-30°	147.0	5.1
30°-40°	205.9	7.1
40°-50°	339.5	11.7
50°-60°	610.2	21.0
60°-70°	884.5	30.4
70°-80°	552.0	19.0
80°-90°	43.8	1.5
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°	2907.9	100.0
0°-180°	2907.9	100.0



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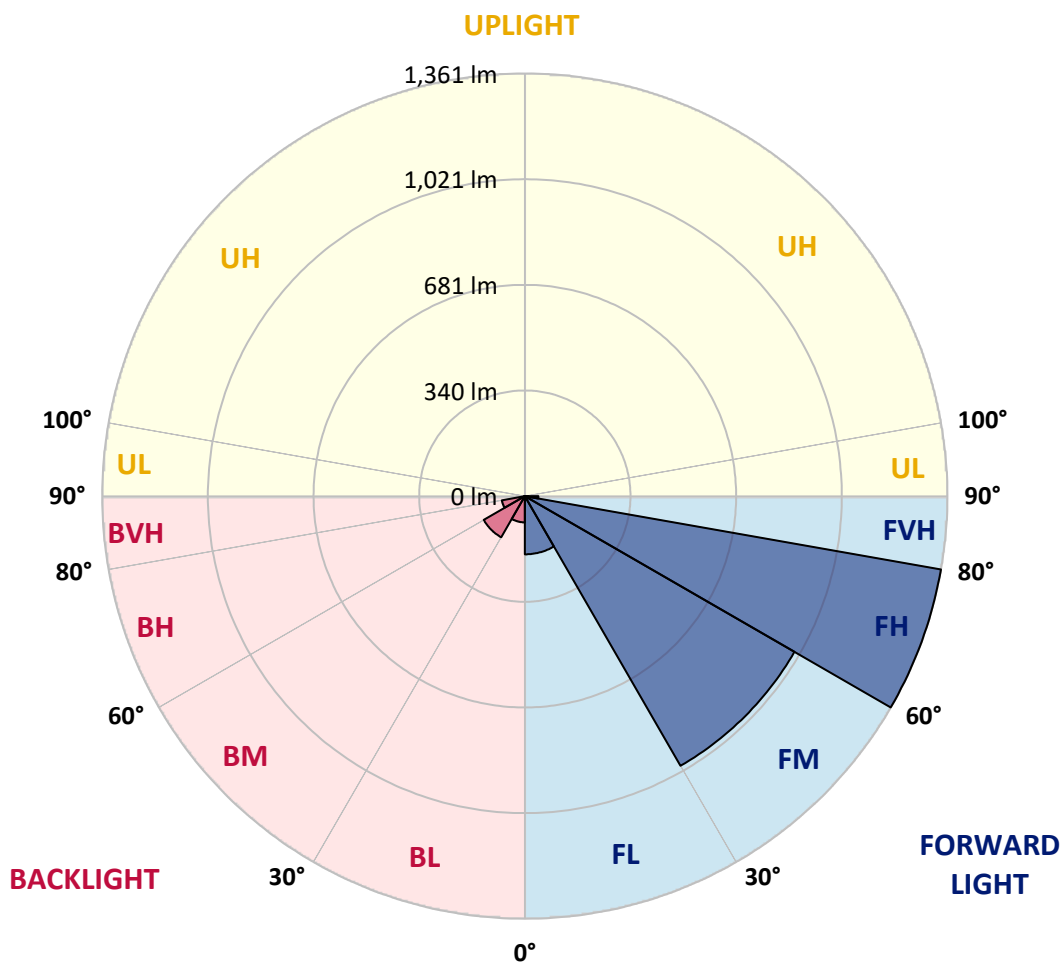
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.4	6.4			
FM (30°-60°)	1002.7	34.5			
FH (60°-80°)	1361.2	46.8			G1/1800
FVH (80°-90°)	43.5	1.5			G1/100
BL (0°-30°)	84.6	2.9	B0/110		
BM (30°-60°)	152.9	5.3	B0/220		
BH (60°-80°)	75.3	2.6	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8
2.5°	347.9	346.4	348.6	347.9	339.0	340.4	339.7	333.8	323.4	317.5	313.7
5°	387.9	391.6	388.7	382.0	376.8	366.4	364.9	355.3	339.0	328.6	317.5
7.5°	429.5	429.5	423.5	413.1	402.0	390.9	389.4	373.1	359.0	341.2	325.6
10°	460.6	456.9	452.4	441.3	428.7	413.9	406.5	394.6	379.0	357.5	337.5
12.5°	488.0	482.1	474.7	458.4	443.5	427.2	428.7	409.4	399.0	379.8	350.1
15°	503.6	498.4	491.8	476.9	453.9	446.5	443.5	431.7	413.1	393.9	365.7
17.5°	507.3	503.6	494.7	475.4	462.8	453.9	453.2	439.1	430.9	414.6	383.5
20°	499.9	493.2	486.6	474.0	462.1	459.1	456.9	456.9	446.5	425.0	394.6
22.5°	487.3	479.9	476.2	468.8	459.1	458.4	459.9	458.4	450.2	436.1	406.5
25°	477.7	474.0	468.0	465.8	459.9	471.0	468.8	466.5	464.3	448.0	425.0
27.5°	480.6	479.9	475.4	466.5	462.1	474.0	480.6	481.4	480.6	464.3	442.1
30°	482.1	478.4	474.0	471.7	473.2	485.1	485.1	501.4	494.7	478.4	459.1
32.5°	499.2	496.9	482.1	476.9	477.7	491.8	492.5	508.8	506.6	495.5	474.0
35°	535.5	520.7	499.2	484.3	484.3	502.9	496.9	520.7	526.6	508.8	484.3
37.5°	589.7	578.5	540.0	506.6	494.0	507.3	513.3	526.6	544.4	528.8	505.1
40°	697.2	695.0	640.1	568.2	518.5	530.3	532.6	553.3	565.2	543.7	537.0
42.5°	854.5	843.3	792.2	678.7	563.0	557.8	565.9	579.3	607.5	589.7	573.3
45°	1008.0	1002.8	951.6	824.8	643.8	612.7	608.2	631.9	673.5	654.2	641.6
47.5°	1119.2	1108.9	1079.9	973.1	762.5	677.2	680.2	703.9	756.6	741.7	745.4
50°	1204.5	1199.4	1168.9	1110.3	912.3	778.8	772.9	796.6	867.8	877.4	887.8
52.5°	1298.0	1307.6	1266.9	1217.2	1089.6	915.3	901.9	910.1	1002.1	1024.3	1053.2
55°	1387.8	1403.3	1362.5	1355.9	1275.0	1066.6	1064.4	1045.1	1163.8	1166.7	1182.3
57.5°	1446.3	1441.2	1438.2	1474.5	1460.4	1240.1	1229.0	1209.7	1317.3	1298.0	1344.7
60°	1450.8	1465.6	1515.3	1605.1	1630.3	1444.1	1427.8	1375.1	1450.1	1404.1	1493.1
62.5°	1484.2	1496.0	1588.0	1711.9	1744.5	1623.6	1634.7	1501.2	1563.5	1527.2	1657.7
65°	1399.6	1436.7	1621.4	1795.0	1894.3	1805.3	1794.2	1663.7	1680.0	1645.9	1820.2
67.5°	1323.2	1337.3	1530.2	1820.2	2013.0	1987.8	1983.3	1807.6	1800.1	1737.1	1866.2
70°	1075.5	1092.5	1283.2	1691.1	2053.1	2200.7	2190.3	2009.3	1881.7	1687.4	1630.3
72.5°	616.4	650.5	889.3	1302.5	1844.6	2260.0	2269.7	2041.9	1785.3	1418.9	1088.8
75°	201.7	211.4	369.4	738.0	1379.6	1971.5	1954.4	1754.9	1440.4	936.8	491.8
77.5°	68.2	69.7	109.0	267.0	764.7	1332.1	1341.8	1254.2	884.9	389.4	135.7
80°	34.9	37.1	53.4	100.1	314.5	725.4	741.0	715.0	370.9	115.0	32.6
82.5°	16.3	17.1	31.2	55.6	143.9	284.8	284.8	313.0	131.3	64.5	13.4
85°	5.9	5.9	16.3	31.9	60.8	94.9	95.7	96.4	69.0	48.2	5.9
87.5°	2.2	2.2	8.2	13.4	22.3	28.9	28.9	23.0	34.9	31.9	2.2
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°	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8
2.5°	312.3	307.8	304.1	298.9	292.2	288.5	289.3	284.8	284.8	282.6	281.9
5°	312.3	307.8	298.2	289.3	283.3	275.9	272.2	269.2	269.2	267.8	268.5
7.5°	314.5	307.8	294.5	282.6	273.0	265.5	259.6	258.9	257.4	253.7	256.6
10°	327.8	318.2	295.9	279.6	268.5	260.3	250.0	247.0	242.5	235.9	236.6
12.5°	339.0	326.4	306.3	284.1	270.0	256.6	232.9	206.9	195.8	183.9	184.7
15°	355.3	337.5	310.0	290.0	270.0	227.0	183.9	150.6	132.8	123.9	123.9
17.5°	364.2	349.3	320.4	293.7	248.5	184.7	130.5	101.6	98.6	100.1	100.1
20°	382.7	362.7	332.3	296.7	212.9	131.3	95.7	92.7	94.2	97.2	96.4
22.5°	394.6	374.6	341.2	283.3	164.7	94.2	89.7	88.3	89.7	93.5	93.5
25°	404.2	391.6	355.3	250.7	116.4	85.3	83.8	85.3	86.8	88.3	90.5
27.5°	428.0	406.5	364.9	208.4	83.8	79.4	80.8	81.6	81.6	83.8	84.6
30°	443.5	426.5	372.3	161.0	74.2	73.4	74.9	75.7	76.4	78.6	79.4
32.5°	458.4	452.4	362.7	109.0	69.7	68.2	67.5	68.2	71.2	73.4	72.7
35°	479.9	476.2	348.6	75.7	65.3	62.3	60.8	61.6	63.8	66.0	65.3
37.5°	505.9	509.6	314.5	66.0	60.8	57.1	54.1	54.1	54.9	57.1	57.9
40°	536.3	545.9	274.4	61.6	57.9	53.4	50.4	46.7	46.0	45.2	46.0
42.5°	591.9	603.0	229.2	58.6	53.4	48.2	43.8	39.3	35.6	33.4	33.4
45°	669.8	660.9	169.9	55.6	51.2	43.8	37.1	31.9	26.7	24.5	24.5
47.5°	777.3	746.9	116.4	52.7	47.5	38.6	31.2	24.5	20.0	17.8	17.8
50°	926.4	826.3	75.7	49.7	45.2	33.4	25.2	17.8	14.8	14.1	14.8
52.5°	1067.3	907.1	60.1	46.0	40.8	28.9	19.3	14.8	13.4	12.6	12.6
55°	1197.1	947.9	53.4	42.3	37.1	23.7	16.3	12.6	11.9	11.1	11.1
57.5°	1306.9	962.0	46.0	37.1	29.7	18.5	13.4	11.1	9.6	8.9	8.9
60°	1401.8	965.7	35.6	29.7	21.5	14.1	11.1	9.6	8.2	6.7	6.7
62.5°	1477.5	939.8	25.2	20.8	14.8	11.1	9.6	6.7	4.5	3.0	2.2
65°	1537.6	887.8	17.1	14.1	9.6	8.2	5.9	3.0	0.7	0.0	0.0
67.5°	1467.1	769.9	13.4	10.4	6.7	5.2	3.0	0.7	0.0	0.0	0.0
70°	1196.4	597.1	9.6	6.7	4.5	1.5	0.7	0.0	0.0	0.0	0.0
72.5°	814.4	385.0	7.4	4.5	2.2	0.7	0.0	0.0	0.0	0.0	0.0
75°	365.7	138.0	5.2	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	89.0	32.6	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.7	8.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.7	0.0	0.0	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)