

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: P673307

Luminaire Tested: **CCP-SA-1B-830-U-T3-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673307  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-830-U-T3-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T3  
distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

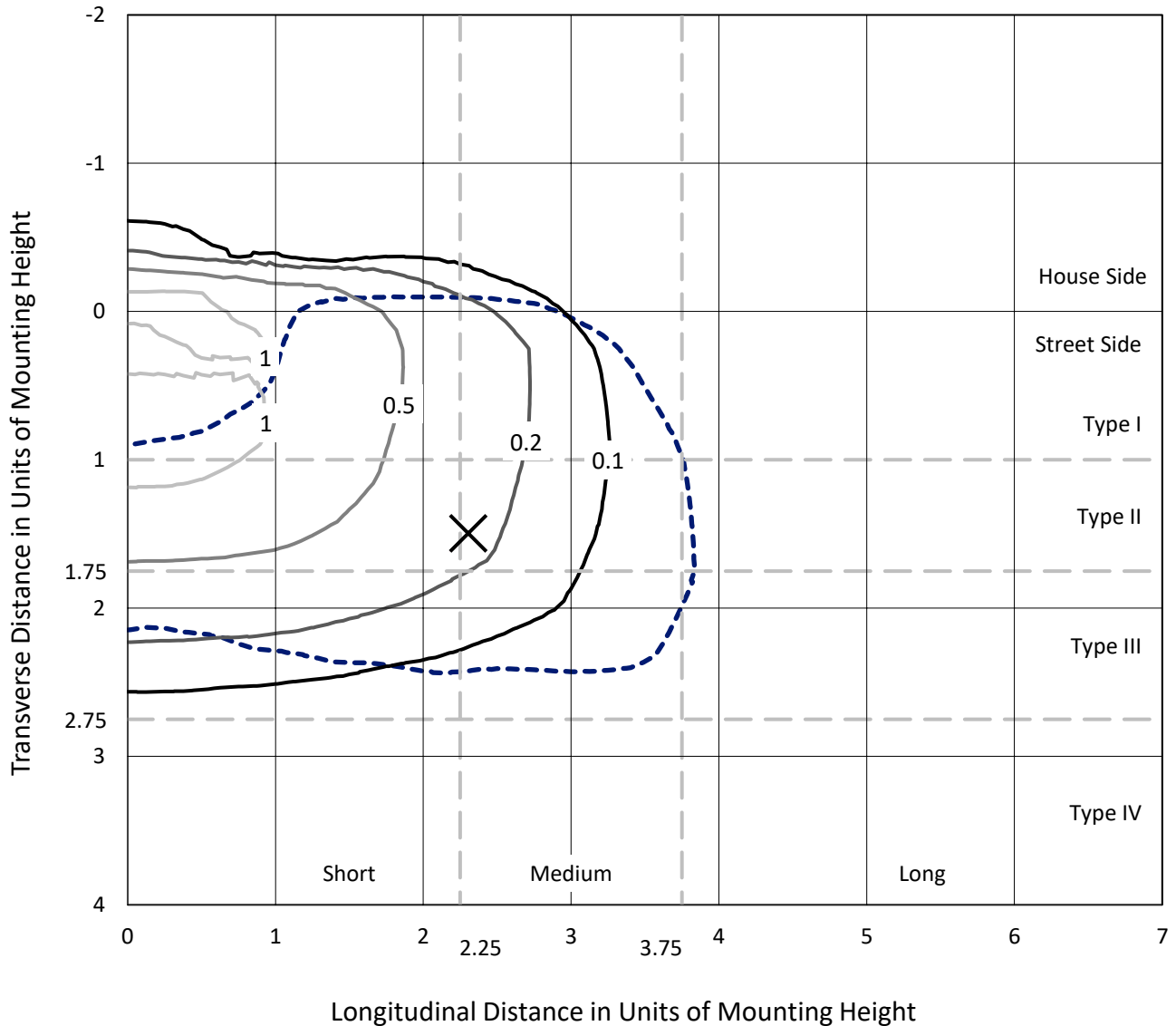
Lumens per Lamp: N/A  
Luminaire Lumens: 1977 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 24  
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

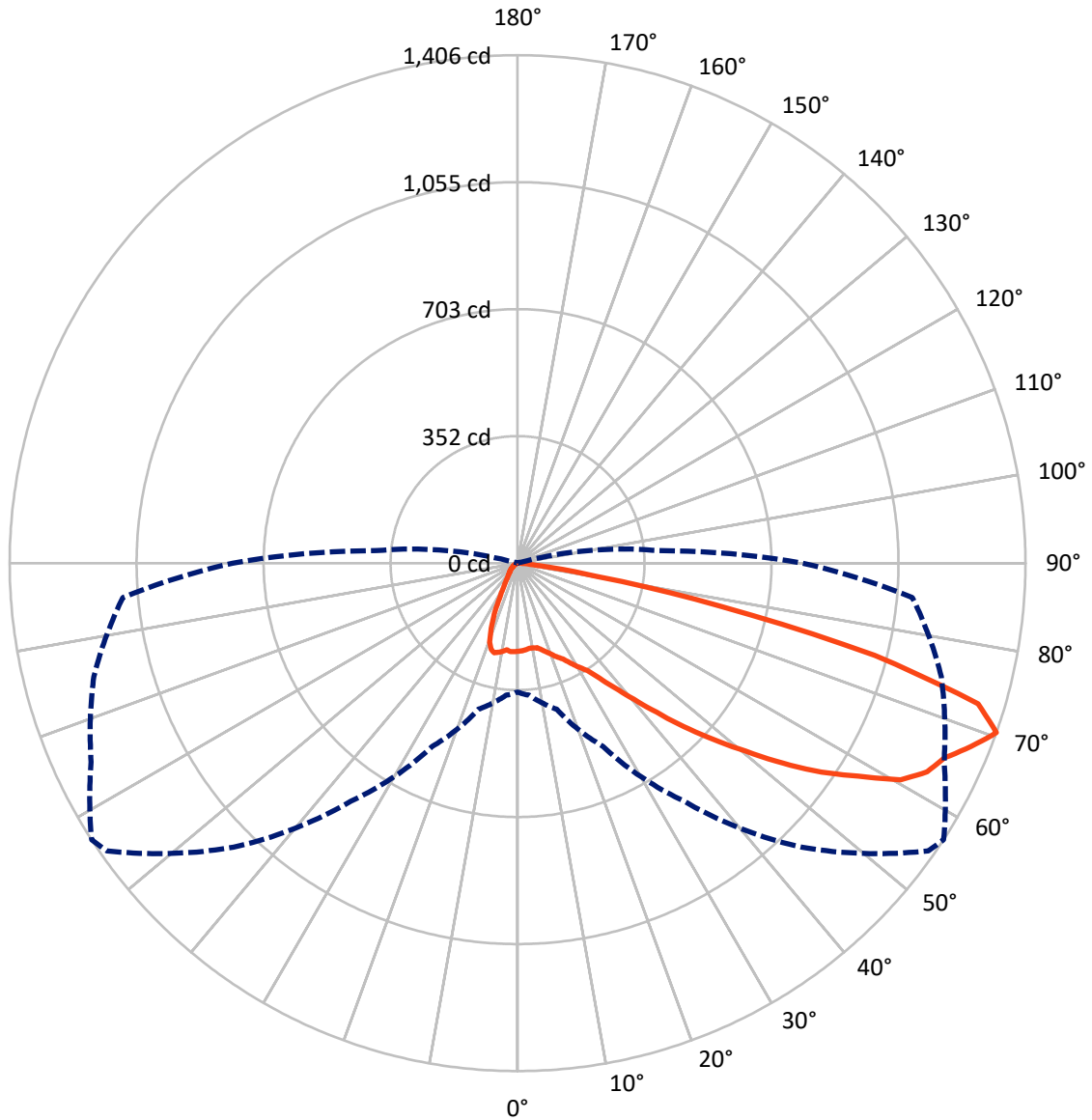
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 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 70-Deg Vertical

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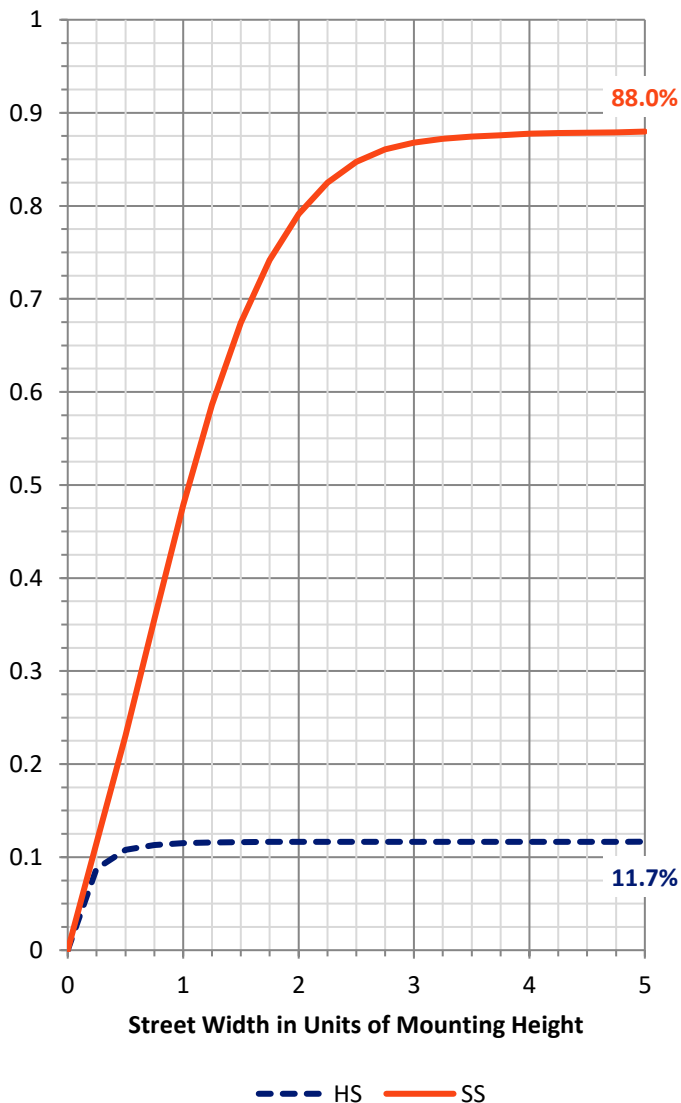
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	233.0	0.0	233.0
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	1743.9	0.0	1743.9
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	1977.0	0.0	1977.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.8	1.2
10°-20°	63.7	3.2
20°-30°	107.4	5.4
30°-40°	183.7	9.3
40°-50°	308.5	15.6
50°-60°	473.6	24.0
60°-70°	546.7	27.7
70°-80°	258.3	13.1
80°-90°	12.3	0.6
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°	1977.0	100.0
0°-180°	1977.0	100.0



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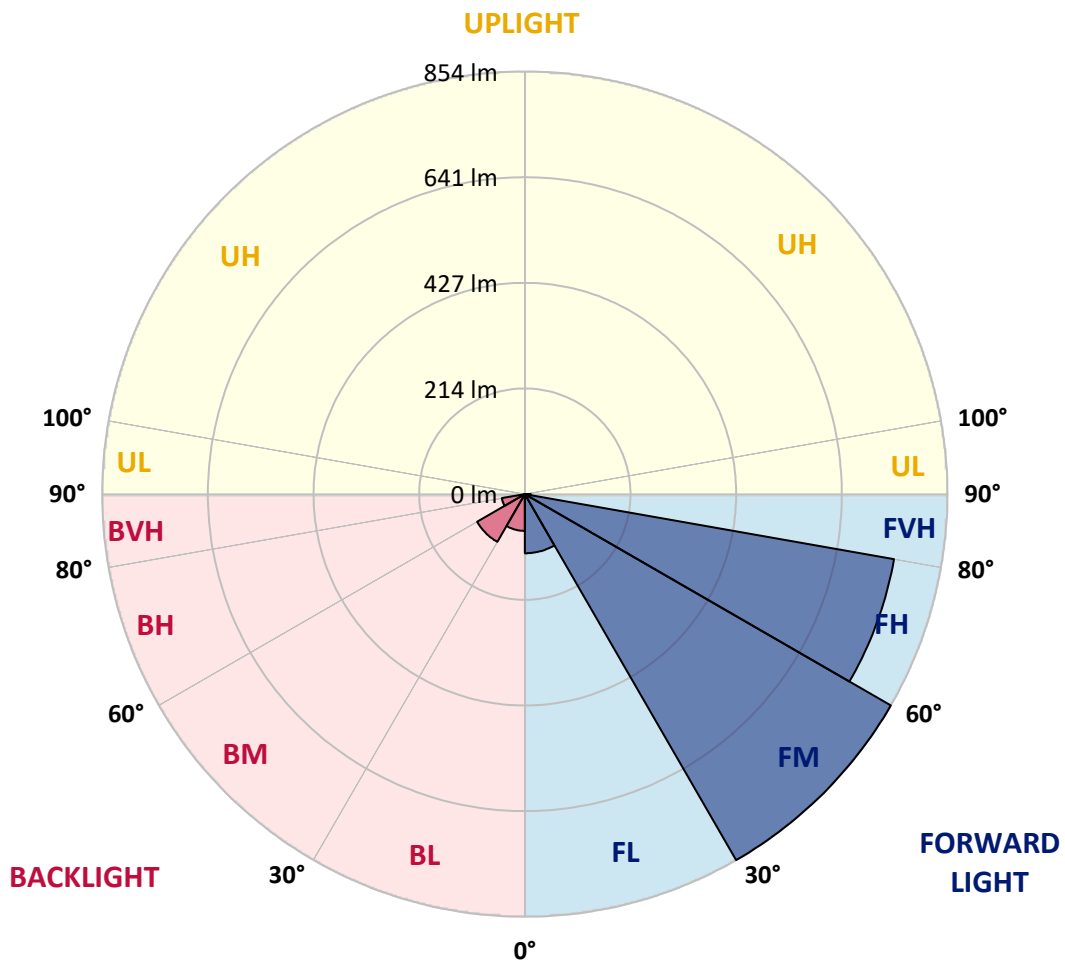
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.6	6.0			
FM (30°-60°)	854.4	43.2			
FH (60°-80°)	757.9	38.3			G1/1800
FVH (80°-90°)	12.0	0.6			G1/100
BL (0°-30°)	74.3	3.8	B0/110		
BM (30°-60°)	111.4	5.6	B0/220		
BH (60°-80°)	47.1	2.4	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9
2.5°	240.4	238.9	240.4	242.4	240.4	241.9	241.4	242.9	240.9	240.9	242.4
5°	224.7	227.3	228.3	230.8	233.3	237.9	240.9	240.9	243.9	245.4	247.5
7.5°	219.2	215.1	219.2	221.2	223.7	231.3	235.9	237.9	241.9	247.5	250.5
10°	211.1	214.1	214.1	220.7	224.2	228.8	236.9	238.4	247.5	253.0	256.1
12.5°	210.6	210.6	213.1	217.7	224.7	233.3	243.4	240.4	250.0	260.1	265.1
15°	212.1	215.7	215.7	221.7	227.3	239.4	248.0	248.5	262.1	272.2	276.8
17.5°	218.7	217.2	219.2	222.7	231.3	242.9	257.1	258.6	274.2	287.9	294.4
20°	232.3	234.8	231.8	229.8	233.3	248.5	266.7	269.7	287.4	300.5	307.1
22.5°	283.3	281.3	269.2	255.0	249.0	256.1	275.8	282.8	303.5	319.2	324.7
25°	340.9	337.4	323.2	302.0	274.2	271.2	293.9	293.9	323.7	340.9	339.4
27.5°	395.4	394.4	377.8	355.5	316.2	294.4	308.6	314.1	346.5	360.6	354.0
30°	451.0	452.0	436.9	410.1	368.7	331.8	329.3	333.8	363.6	385.8	372.2
32.5°	515.6	506.6	495.9	459.1	421.2	379.8	356.1	354.0	382.8	403.0	384.8
35°	573.2	567.7	556.0	522.7	479.3	429.8	396.5	391.4	407.1	433.8	414.1
37.5°	623.7	618.2	603.0	580.8	547.0	491.9	444.9	437.4	443.9	472.2	448.5
40°	667.2	668.7	664.6	642.9	611.6	561.6	507.6	495.4	489.9	515.1	488.4
42.5°	698.5	713.1	714.1	687.4	662.1	634.8	574.2	564.6	551.5	572.7	554.0
45°	764.1	756.0	761.1	751.5	723.7	719.7	651.0	645.4	627.3	634.3	614.6
47.5°	815.6	814.1	823.7	808.1	800.5	801.0	738.4	728.8	703.0	716.1	693.9
50°	845.4	837.4	872.2	884.3	882.8	888.9	826.7	818.7	793.9	813.1	765.6
52.5°	852.5	867.1	900.0	943.9	962.6	975.2	923.2	920.2	893.4	905.5	839.9
55°	870.2	884.3	903.5	975.7	1044.9	1048.0	1018.2	1021.2	997.4	994.4	910.6
57.5°	869.7	866.6	919.7	1003.5	1099.5	1142.9	1126.7	1112.1	1086.3	1056.5	956.0
60°	837.9	836.3	891.4	1007.0	1129.3	1228.8	1235.3	1218.2	1153.5	1109.6	1009.6
62.5°	774.7	780.8	836.3	976.7	1157.5	1259.6	1283.8	1272.2	1191.9	1144.9	1072.7
65°	702.5	689.9	754.5	901.0	1093.9	1250.5	1303.0	1299.0	1237.3	1183.3	1130.8
67.5°	563.6	569.2	618.7	775.2	985.3	1217.1	1347.9	1354.0	1273.7	1217.1	1148.5
70°	357.1	367.2	418.7	560.1	804.5	1112.1	1388.3	1406.0	1302.5	1214.1	1096.9
72.5°	104.0	108.1	178.3	279.3	512.6	891.9	1323.7	1332.8	1246.4	1102.0	848.5
75°	34.3	36.4	52.5	90.9	201.0	461.1	977.8	1020.7	991.9	799.0	485.3
77.5°	22.7	23.7	28.8	43.4	76.3	144.4	524.2	570.2	559.1	374.2	156.6
80°	16.7	17.2	21.2	29.3	46.5	52.0	193.4	223.7	216.2	85.9	31.3
82.5°	10.6	10.6	15.7	20.7	29.3	25.8	56.1	62.1	60.6	32.8	12.1
85°	7.1	7.6	11.6	16.2	16.2	12.1	16.2	18.7	20.2	17.7	5.6
87.5°	2.0	2.5	6.6	11.1	6.6	6.1	5.6	6.1	7.1	9.6	3.0
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°	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9
2.5°	243.9	246.0	245.4	246.5	244.9	243.4	244.9	244.9	244.9	243.4	242.4
5°	246.0	244.9	246.0	243.9	246.0	243.9	242.9	239.9	239.4	239.4	241.4
7.5°	249.0	250.0	245.4	245.4	240.9	241.9	239.4	239.9	238.9	237.4	236.4
10°	253.5	257.6	253.0	251.5	246.5	242.4	236.4	233.3	233.3	231.3	233.3
12.5°	266.2	264.6	262.1	257.1	251.0	242.9	228.3	213.6	201.5	192.4	197.0
15°	276.3	275.8	272.2	262.6	254.5	229.8	192.9	155.0	134.8	125.8	124.2
17.5°	291.9	290.4	284.3	271.7	244.9	190.4	132.3	100.5	80.8	76.3	74.7
20°	306.6	306.1	292.9	276.8	220.7	138.9	86.4	66.2	60.6	61.1	60.1
22.5°	322.2	319.7	304.0	270.7	175.8	92.4	61.6	59.1	57.1	56.6	57.6
25°	339.9	330.8	315.1	257.1	129.3	63.6	58.1	56.1	54.0	53.5	53.5
27.5°	347.0	340.9	320.2	224.2	81.8	55.6	54.5	52.0	49.5	48.0	47.5
30°	363.1	353.0	325.2	176.3	58.1	51.0	49.5	46.5	42.9	40.4	40.4
32.5°	379.3	367.2	325.7	123.2	48.5	46.0	43.4	39.4	34.8	32.3	32.8
35°	399.5	382.8	320.2	79.8	43.4	40.4	35.4	30.8	26.8	24.7	24.7
37.5°	433.8	418.2	297.5	52.5	39.4	34.3	29.3	24.2	20.7	19.2	19.2
40°	477.3	457.1	266.2	41.4	34.8	29.3	23.2	18.7	16.7	15.2	15.2
42.5°	529.3	504.0	219.7	36.9	30.8	24.2	18.2	14.6	12.6	12.6	12.1
45°	581.3	539.9	172.2	33.8	27.3	20.2	14.1	11.6	10.6	10.1	10.1
47.5°	655.5	583.3	123.2	30.8	23.7	15.7	11.6	9.6	8.6	8.1	8.6
50°	726.7	624.2	87.4	27.8	19.7	12.6	9.6	8.6	7.6	7.1	7.1
52.5°	789.4	652.5	61.1	24.2	16.7	10.6	8.6	7.6	7.1	6.6	6.6
55°	823.7	642.9	41.9	20.7	13.6	9.1	7.6	6.6	6.1	5.6	5.6
57.5°	859.1	616.1	31.8	17.2	11.1	8.6	7.1	6.1	5.6	5.1	5.1
60°	888.9	596.4	24.7	13.6	9.1	7.1	6.1	5.1	4.5	4.0	3.5
62.5°	890.4	557.1	18.2	10.1	7.1	6.1	5.1	4.0	2.5	2.0	1.5
65°	896.4	515.6	13.1	7.6	5.1	4.5	3.5	2.0	1.0	0.0	0.0
67.5°	875.2	466.7	10.6	5.6	3.5	2.5	1.5	0.5	0.0	0.0	0.0
70°	788.9	393.9	8.1	4.0	2.5	1.5	0.5	0.0	0.0	0.0	0.0
72.5°	564.6	256.1	5.6	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
75°	301.0	109.1	4.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	94.4	27.8	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.7	7.6	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.5	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)