

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: P674592

Luminaire Tested: **CCP-SA-1B-827-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674592  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-827-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2R distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

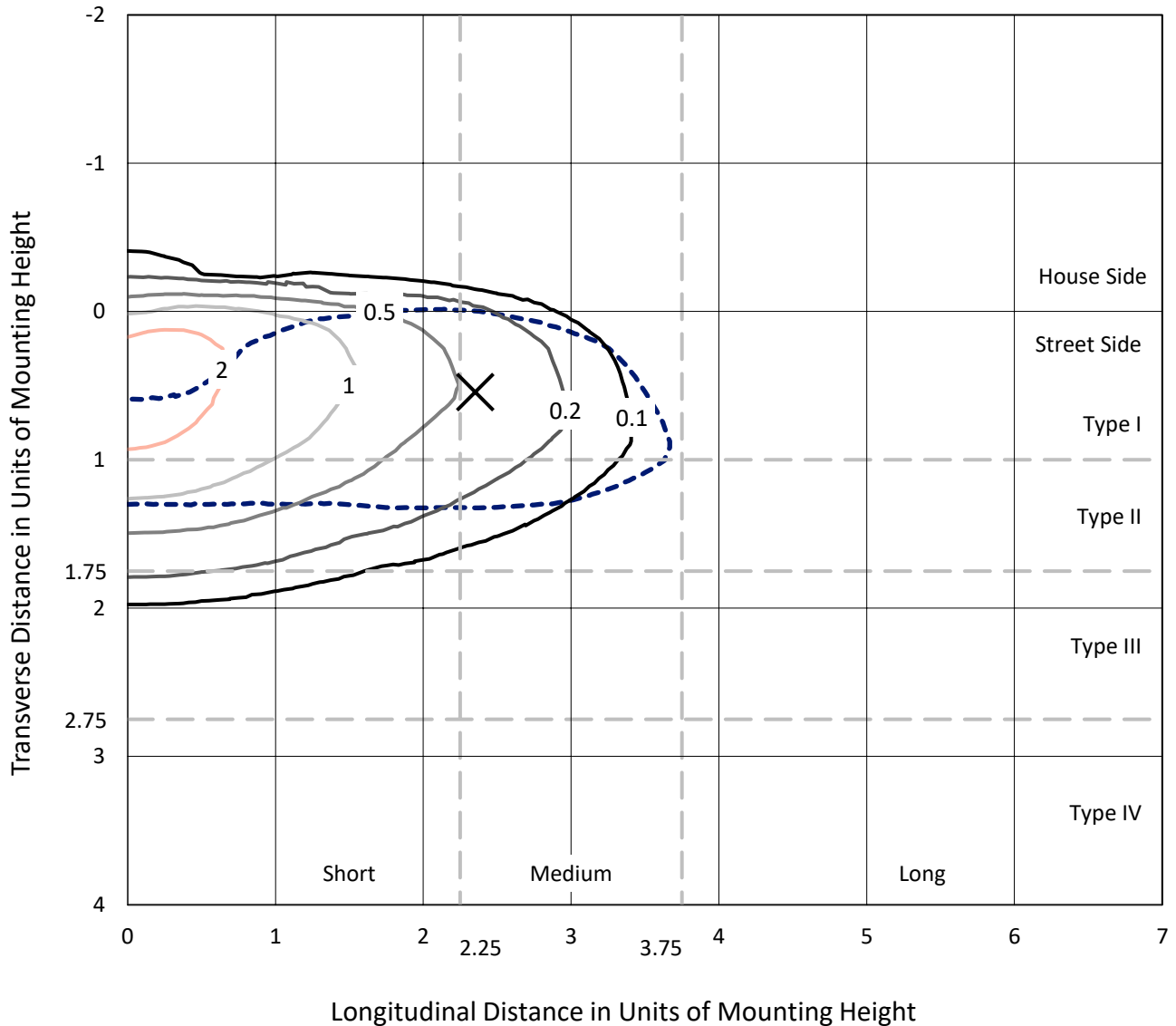
Lumens per Lamp: N/A  
Luminaire Lumens: 2055.6 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G0

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

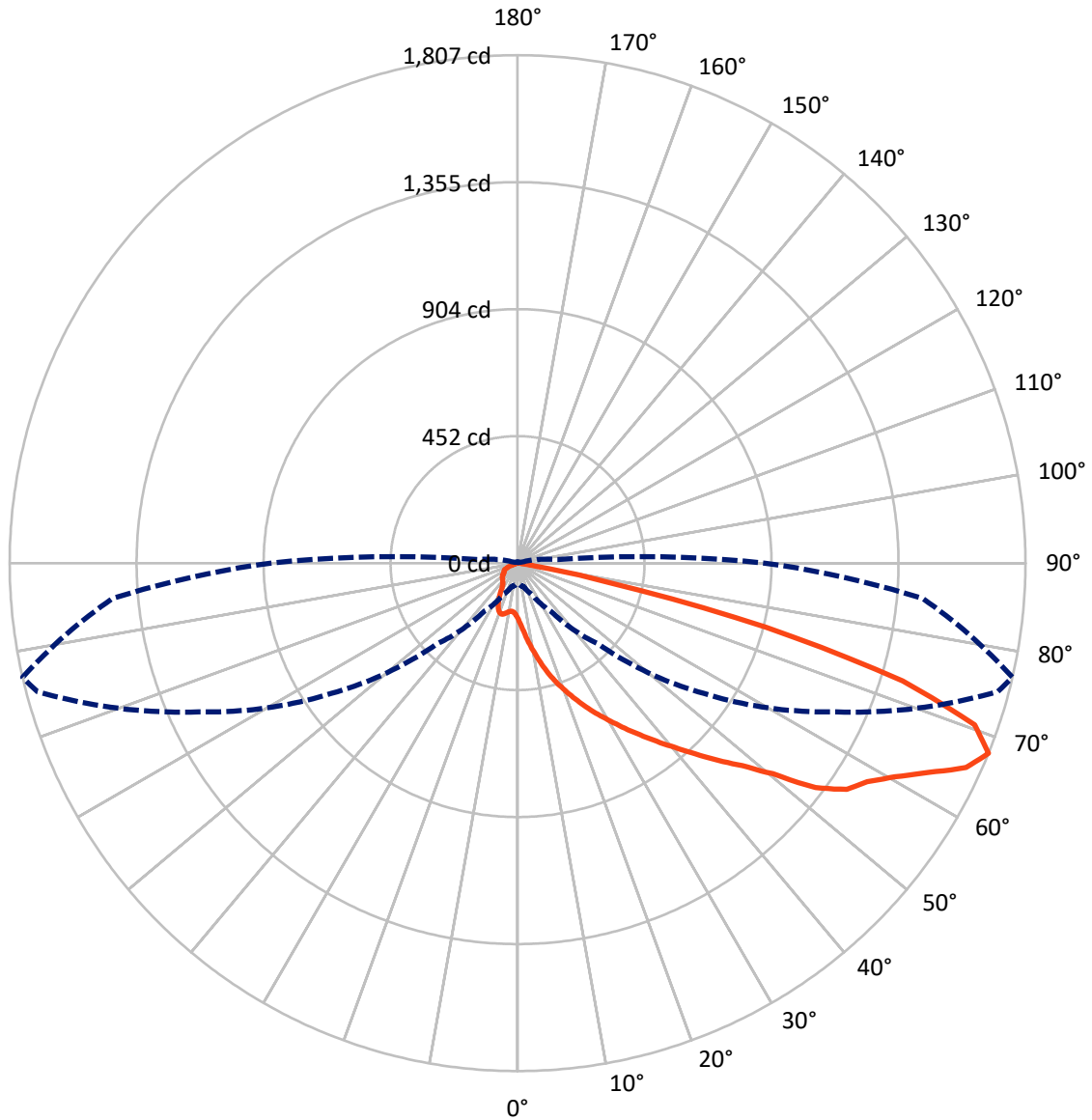
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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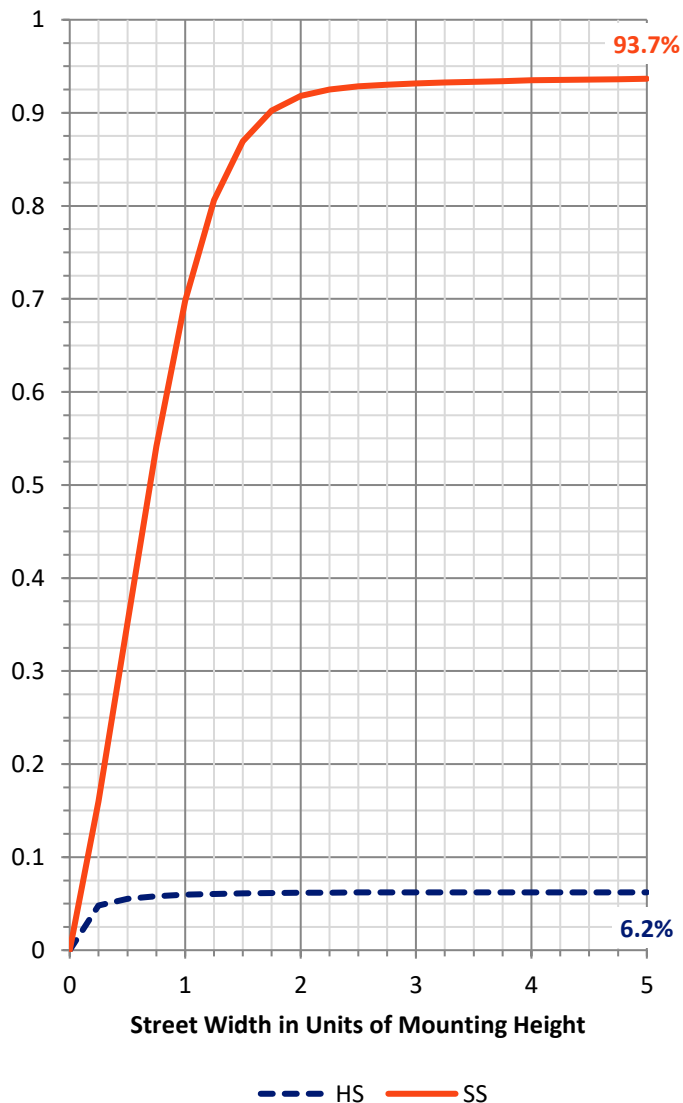
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	128.5	0.0	128.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	1927.2	0.0	1927.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	2055.6	0.0	2055.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.1	1.1
10°-20°	85.6	4.2
20°-30°	167.2	8.1
30°-40°	292.3	14.2
40°-50°	426.3	20.7
50°-60°	498.4	24.2
60°-70°	404.1	19.7
70°-80°	151.8	7.4
80°-90°	6.9	0.3
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°	2055.6	100.0
0°-180°	2055.6	100.0



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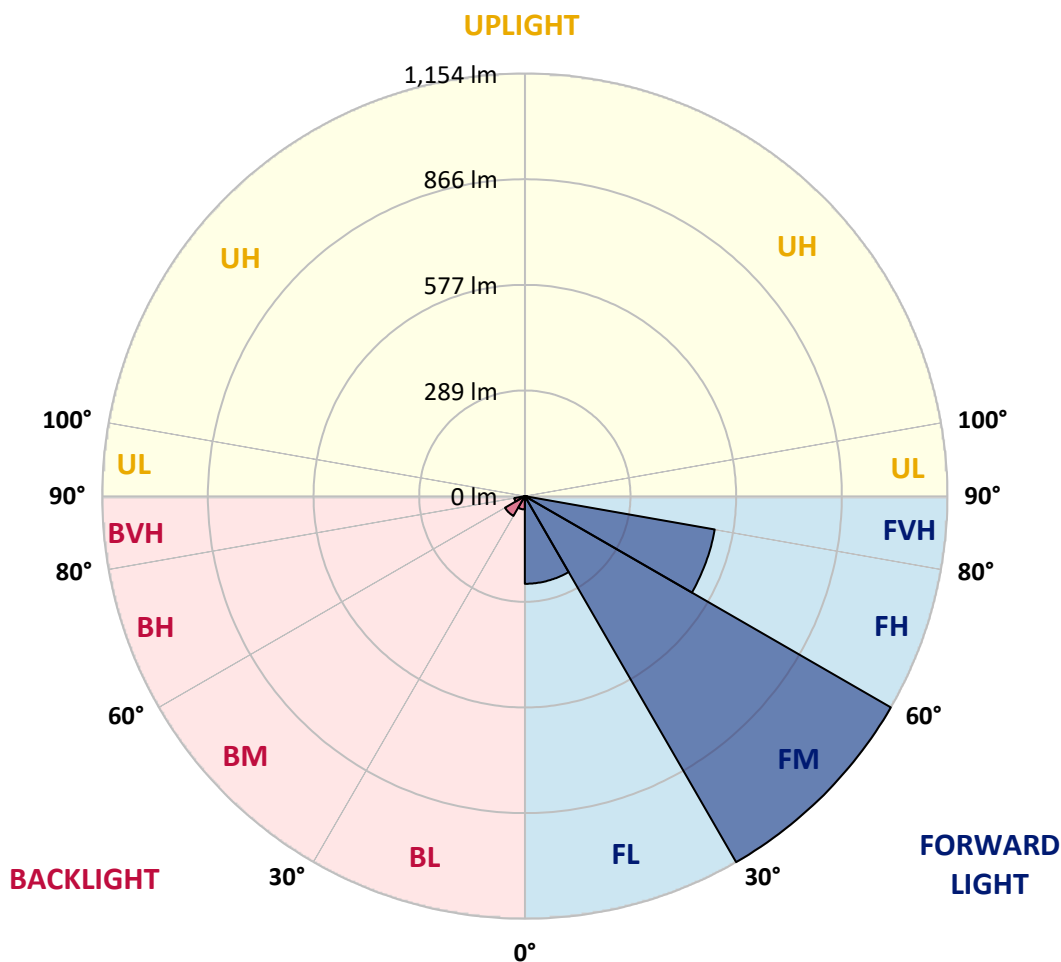
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.5	11.6			
FM (30°-60°)	1154.5	56.2			
FH (60°-80°)	526.7	25.6			G0/660
FVH (80°-90°)	6.5	0.3			G0/10
BL (0°-30°)	36.4	1.8	B0/110		
BM (30°-60°)	62.5	3.0	B0/220		
BH (60°-80°)	29.1	1.4	B0/110		G0/110
BVH (80°-90°)	0.4	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-G0**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9
2.5°	295.6	284.9	286.9	282.4	276.7	263.3	249.2	235.1	222.5	219.7	207.1
5°	378.6	375.2	371.7	368.7	356.7	340.0	314.5	282.3	253.1	248.1	221.9
7.5°	443.0	437.9	441.1	432.0	419.4	403.2	371.0	336.4	291.5	284.1	243.5
10°	490.5	487.7	489.2	484.9	478.8	462.6	430.7	387.5	335.5	321.4	267.6
12.5°	526.1	526.6	533.1	533.5	528.5	515.3	481.6	436.5	375.4	362.8	294.3
15°	552.1	552.6	560.6	569.1	574.9	568.0	537.4	486.9	422.4	405.1	322.3
17.5°	556.3	556.7	570.8	588.1	605.9	611.8	588.3	537.0	465.2	445.6	354.4
20°	559.1	562.3	574.9	594.8	623.0	641.3	628.5	585.1	506.8	484.0	386.0
22.5°	592.9	592.9	600.3	614.4	636.9	665.6	663.0	629.3	547.2	524.6	417.3
25°	664.5	664.5	657.3	653.6	665.6	688.3	694.8	676.4	593.5	566.7	450.4
27.5°	759.4	759.4	748.0	720.8	710.4	719.8	726.7	717.4	636.1	609.8	485.3
30°	857.7	861.0	841.4	806.7	770.3	763.1	756.4	754.3	681.6	651.9	520.7
32.5°	956.4	956.1	931.6	888.3	840.8	815.2	793.5	791.1	729.8	700.7	554.3
35°	1035.3	1035.5	1009.7	965.3	910.4	877.7	842.9	831.5	782.7	750.3	594.4
37.5°	1103.6	1099.7	1071.9	1029.7	978.5	944.7	901.3	871.8	837.5	804.4	634.5
40°	1142.7	1137.5	1110.5	1070.4	1031.6	1005.8	967.6	920.4	897.6	862.0	680.1
42.5°	1148.5	1144.0	1126.0	1101.9	1070.2	1047.5	1037.3	975.4	960.7	928.4	734.7
45°	1132.4	1125.1	1119.2	1106.6	1097.6	1086.7	1100.6	1033.8	1033.1	1001.0	788.7
47.5°	1092.3	1082.4	1083.9	1097.8	1107.9	1117.7	1161.1	1110.5	1106.0	1075.9	859.6
50°	1023.8	1019.0	1035.3	1062.8	1102.5	1141.8	1221.4	1188.8	1206.4	1178.2	957.4
52.5°	884.6	890.6	939.4	1005.4	1074.1	1153.1	1278.0	1305.7	1350.8	1327.6	1055.7
55°	717.6	715.4	780.5	897.8	1007.5	1145.9	1302.7	1374.5	1445.4	1421.1	1110.5
57.5°	578.1	581.9	625.9	741.9	894.5	1090.0	1308.5	1410.5	1483.5	1467.3	1161.1
60°	433.9	437.6	477.7	578.6	744.1	973.5	1261.0	1423.1	1554.9	1542.6	1242.0
62.5°	276.1	281.0	321.2	419.4	568.8	792.4	1154.2	1410.0	1629.5	1639.7	1352.4
65°	135.8	140.1	169.8	245.0	380.2	592.5	1005.4	1359.7	1724.5	1753.6	1441.0
67.5°	75.2	77.2	87.4	124.7	212.1	406.4	808.0	1252.2	1768.1	1807.1	1446.9
70°	58.5	59.0	62.9	72.7	103.4	238.5	574.7	1073.3	1677.7	1724.9	1326.5
72.5°	49.2	49.9	51.8	55.1	64.6	124.1	361.1	829.5	1411.6	1433.0	1026.2
75°	36.0	37.1	42.3	45.3	51.0	75.3	159.2	498.4	932.9	911.9	574.2
77.5°	30.2	31.2	32.5	36.7	42.1	51.4	55.9	209.0	379.7	330.1	150.7
80°	20.6	21.7	25.2	27.5	35.6	34.0	23.2	56.0	76.3	62.2	28.9
82.5°	14.7	15.6	17.4	22.5	25.8	18.0	12.6	17.1	18.4	17.4	9.5
85°	4.6	5.9	12.6	18.6	13.9	6.1	8.0	6.5	5.8	5.6	3.7
87.5°	0.9	0.9	6.3	7.4	5.6	3.2	2.8	2.0	2.6	2.6	2.0
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°	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9
2.5°	201.2	192.8	180.7	169.4	157.9	149.8	144.0	138.3	136.0	135.1	132.7
5°	210.1	194.1	170.2	150.9	136.8	127.9	122.5	117.8	114.9	113.9	112.6
7.5°	222.9	199.9	165.5	143.3	129.2	119.5	110.8	100.8	92.8	89.6	88.3
10°	236.8	208.6	166.3	141.8	123.0	101.9	82.4	66.2	59.2	56.6	54.7
12.5°	257.2	218.2	169.4	140.1	104.7	72.7	52.7	46.0	44.4	44.0	43.6
15°	277.6	231.8	174.6	129.0	78.1	49.5	43.8	41.4	40.5	39.5	39.5
17.5°	298.2	244.8	176.7	107.3	54.0	42.9	39.9	37.9	36.4	35.6	35.1
20°	321.4	258.5	170.7	80.7	43.2	39.2	35.8	33.4	32.1	31.4	30.8
22.5°	346.5	272.0	157.7	56.2	39.3	35.3	32.1	29.7	28.4	27.7	27.5
25°	370.0	283.7	137.0	42.3	35.4	31.5	28.6	26.5	25.6	24.9	24.7
27.5°	394.3	293.8	109.9	37.3	32.3	28.6	25.6	23.9	23.0	22.5	22.3
30°	418.1	300.6	81.8	34.1	29.5	25.8	23.2	21.9	21.0	20.4	20.2
32.5°	442.6	304.5	55.3	31.4	26.7	23.4	21.2	19.9	19.3	18.7	18.7
35°	466.2	304.0	39.9	28.8	24.5	21.2	19.1	18.2	18.0	17.4	17.4
37.5°	491.9	300.1	34.0	26.4	22.1	19.1	17.4	16.9	16.7	16.3	16.1
40°	521.3	291.3	31.0	24.5	20.0	17.4	16.0	15.6	15.4	15.0	15.0
42.5°	553.4	280.0	29.3	22.5	18.4	15.8	14.7	14.1	13.9	13.5	13.5
45°	590.7	269.3	28.2	20.4	16.9	14.5	13.4	12.8	12.6	12.2	12.2
47.5°	641.5	263.1	26.4	18.6	15.2	13.2	12.1	11.7	11.3	10.9	10.9
50°	711.5	255.9	23.9	16.7	13.9	11.9	11.1	10.6	10.4	10.0	10.0
52.5°	769.0	240.5	21.5	14.8	12.4	10.9	10.2	9.8	9.5	9.3	9.3
55°	789.2	222.5	19.1	13.4	11.3	10.2	9.5	9.1	8.9	8.7	8.7
57.5°	821.5	216.7	16.9	11.9	10.2	9.5	8.7	8.5	8.4	8.2	8.0
60°	876.6	220.1	14.8	10.6	9.3	8.5	8.0	7.8	7.4	7.1	7.1
62.5°	930.1	216.0	12.6	9.3	8.0	7.6	7.1	6.7	5.9	5.4	5.0
65°	943.1	188.7	10.9	7.8	6.7	6.3	5.8	5.0	3.9	3.2	3.2
67.5°	880.2	143.4	9.5	6.7	5.6	5.2	4.1	3.3	2.4	1.9	1.9
70°	726.3	90.9	7.8	5.2	4.6	3.5	2.6	2.4	1.7	1.5	1.3
72.5°	524.1	49.7	6.5	4.3	3.3	2.2	1.9	1.5	1.1	0.7	0.7
75°	265.4	23.4	4.8	3.3	2.2	1.5	1.1	0.7	0.7	0.6	0.6
77.5°	75.2	10.8	3.2	2.2	1.5	0.9	0.7	0.6	0.6	0.4	0.4
80°	14.8	5.4	2.0	1.5	1.1	0.7	0.6	0.4	0.4	0.2	0.2
82.5°	5.4	2.8	1.5	1.1	0.9	0.7	0.4	0.2	0.2	0.0	0.0
85°	2.8	1.5	1.1	0.9	0.7	0.6	0.4	0.2	0.0	0.0	0.0
87.5°	1.5	1.1	0.9	0.9	0.7	0.6	0.4	0.2	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)