

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: P676452

Luminaire Tested: **CCW-SA-1B-827-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676452  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-827-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T3 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: 1828.9 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

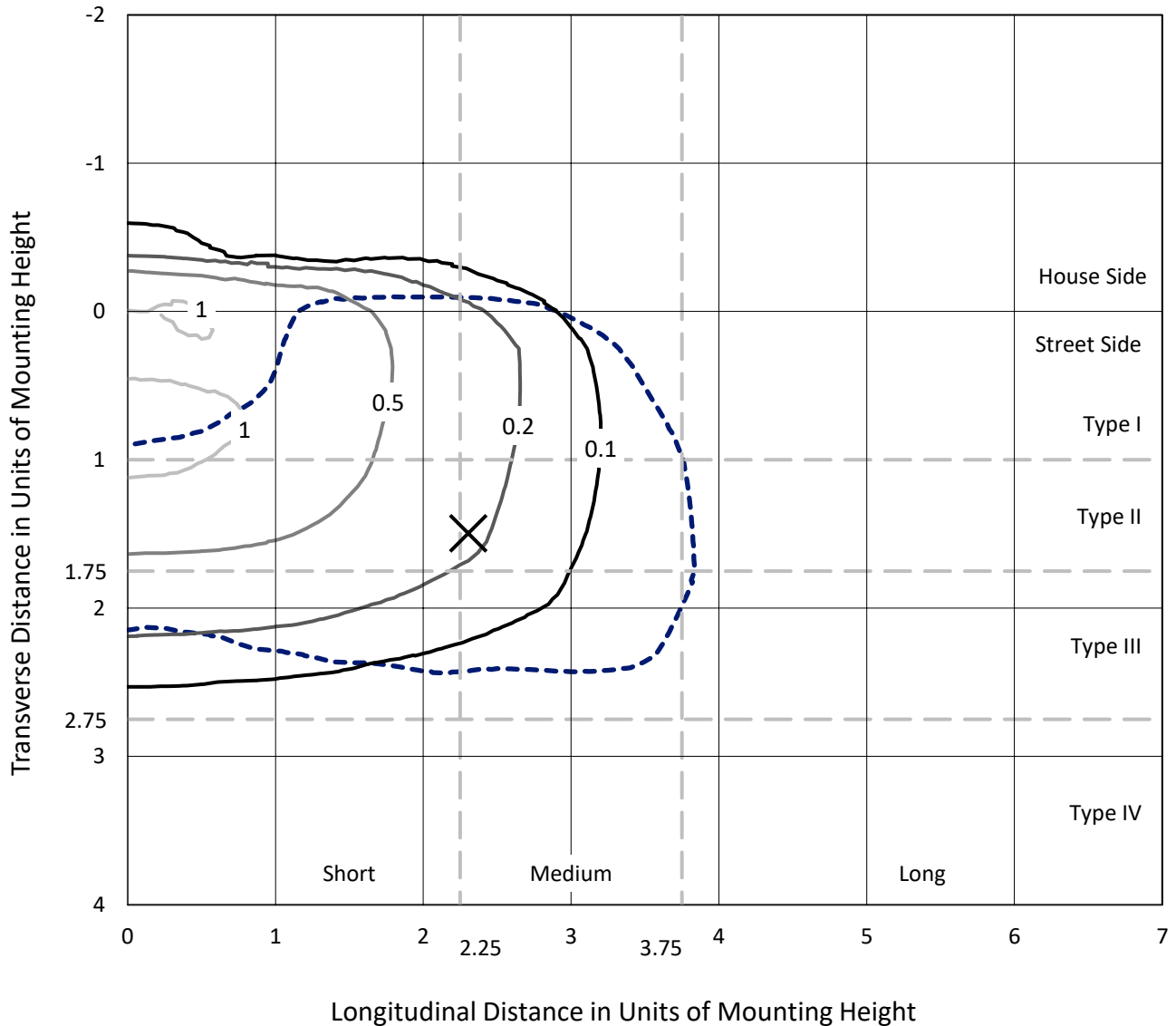
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

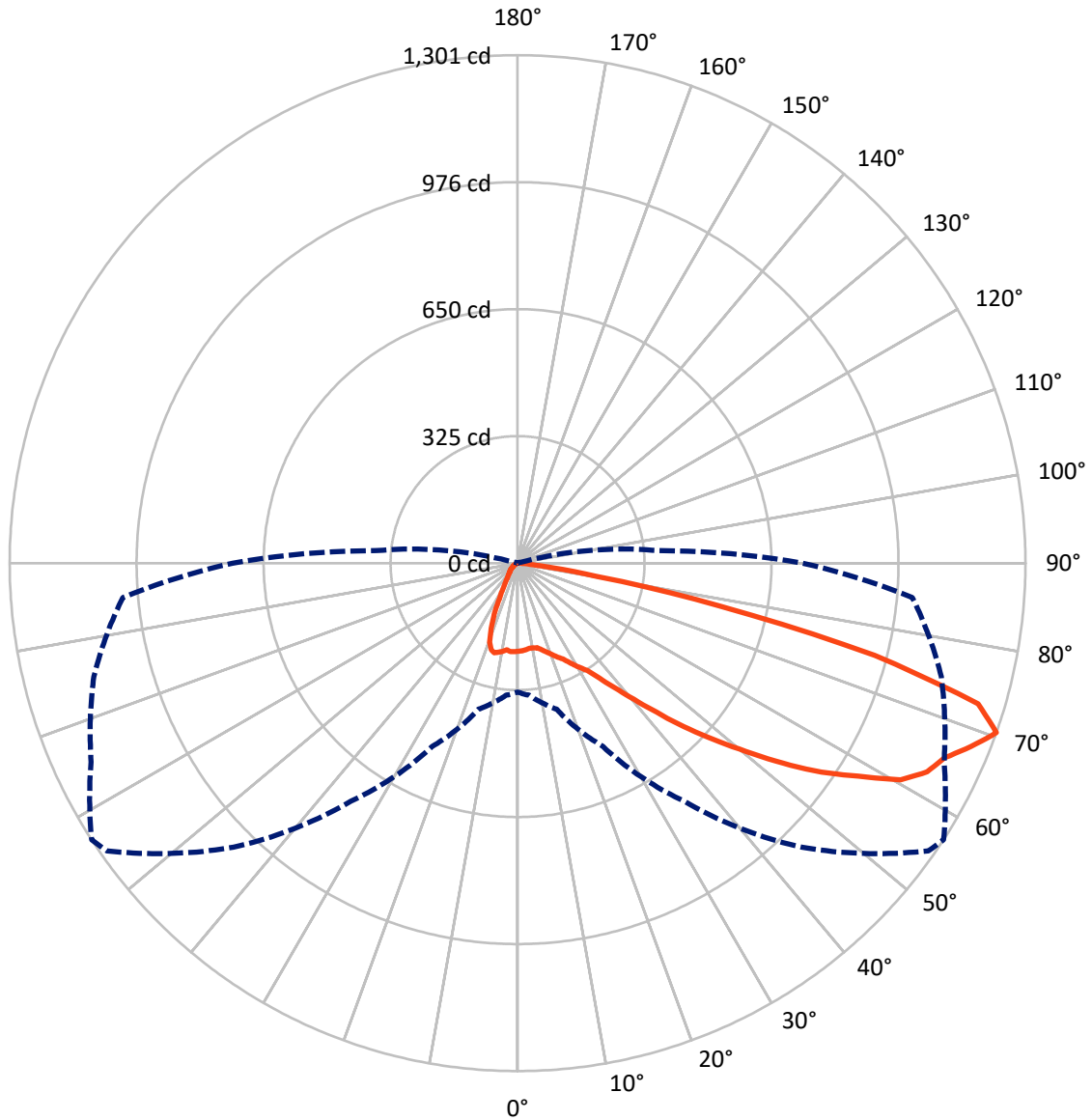
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 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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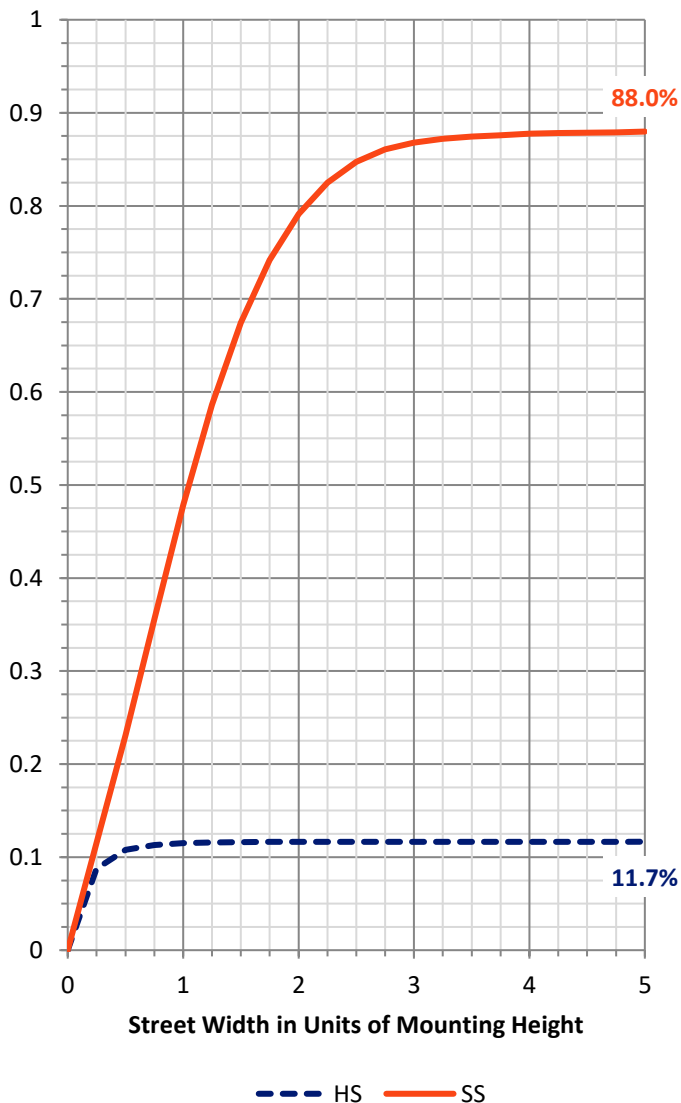
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	215.6	0.0	215.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	1613.4	0.0	1613.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	1828.9	0.0	1828.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.1	1.2
10°-20°	59.0	3.2
20°-30°	99.3	5.4
30°-40°	170.0	9.3
40°-50°	285.4	15.6
50°-60°	438.1	24.0
60°-70°	505.8	27.7
70°-80°	238.9	13.1
80°-90°	11.3	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°	1828.9	100.0
0°-180°	1828.9	100.0



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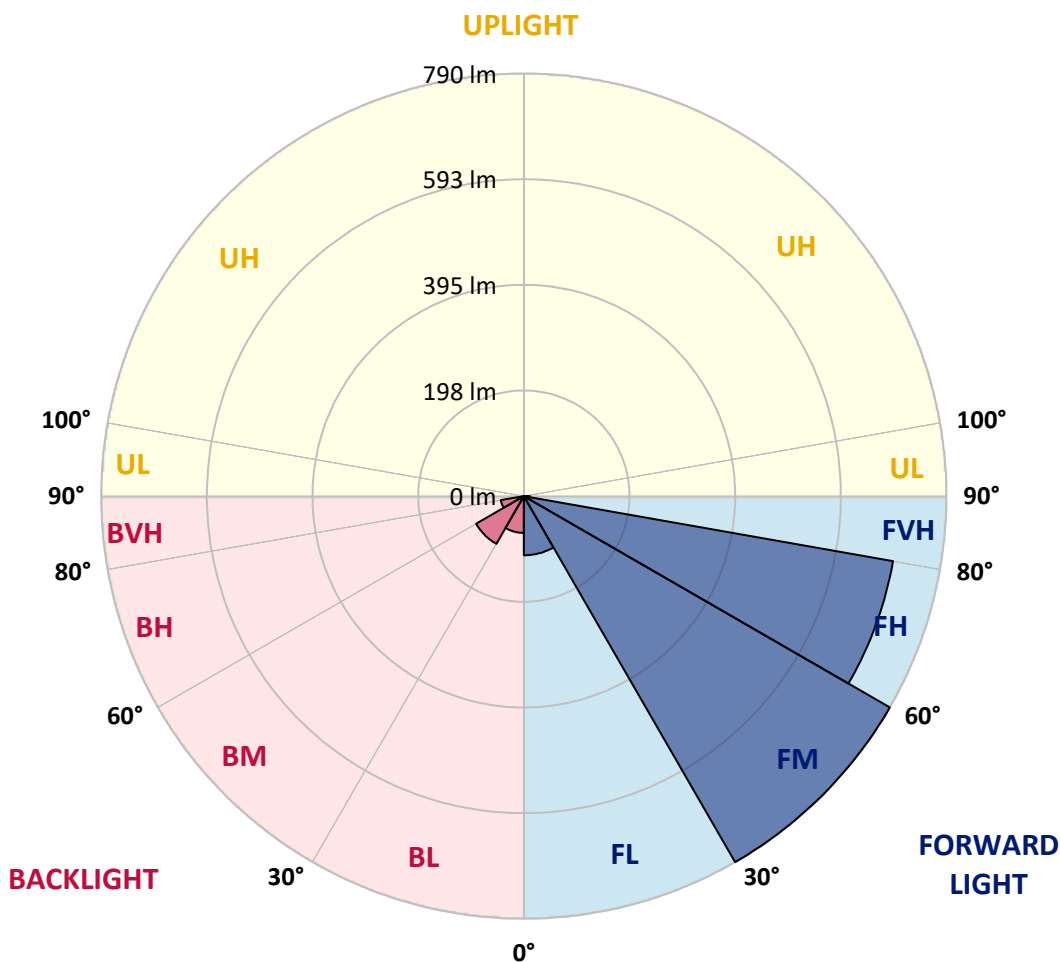
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.6	6.0			
FM (30°-60°)	790.4	43.2			
FH (60°-80°)	701.1	38.3			G1/1800
FVH (80°-90°)	11.1	0.6			G1/100
BL (0°-30°)	68.7	3.8	B0/110		
BM (30°-60°)	103.0	5.6	B0/220		
BH (60°-80°)	43.6	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°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	222.4	221.0	222.4	224.3	222.4	223.8	223.3	224.7	222.9	222.9	224.3
5°	207.9	210.2	211.2	213.5	215.9	220.1	222.9	222.9	225.7	227.1	228.9
7.5°	202.8	199.0	202.8	204.6	207.0	214.0	218.2	220.1	223.8	228.9	231.7
10°	195.3	198.1	198.1	204.2	207.4	211.7	219.1	220.5	228.9	234.1	236.9
12.5°	194.8	194.8	197.2	201.4	207.9	215.9	225.2	222.4	231.3	240.6	245.3
15°	196.2	199.5	199.5	205.1	210.2	221.5	229.4	229.9	242.5	251.8	256.0
17.5°	202.3	200.9	202.8	206.0	214.0	224.7	237.8	239.2	253.7	266.3	272.4
20°	214.9	217.3	214.5	212.6	215.9	229.9	246.7	249.5	265.8	278.0	284.1
22.5°	262.1	260.2	249.0	235.9	230.3	236.9	255.1	261.6	280.8	295.3	300.4
25°	315.4	312.1	299.0	279.4	253.7	250.9	271.9	271.9	299.5	315.4	314.0
27.5°	365.8	364.9	349.5	328.9	292.5	272.4	285.5	290.6	320.5	333.6	327.5
30°	417.2	418.2	404.1	379.4	341.1	307.0	304.6	308.8	336.4	357.0	344.3
32.5°	477.0	468.6	458.8	424.7	389.7	351.3	329.4	327.5	354.2	372.8	356.0
35°	530.3	525.2	514.4	483.6	443.4	397.6	366.8	362.1	376.6	401.3	383.1
37.5°	577.0	571.9	557.9	537.3	506.0	455.1	411.6	404.6	410.7	436.9	414.9
40°	617.2	618.6	614.9	594.8	565.8	519.5	469.6	458.3	453.2	476.6	451.8
42.5°	646.2	659.7	660.6	635.9	612.5	587.3	531.2	522.4	510.2	529.8	512.5
45°	706.9	699.4	704.1	695.2	669.5	665.8	602.2	597.1	580.3	586.8	568.6
47.5°	754.6	753.2	762.0	747.6	740.5	741.0	683.1	674.2	650.4	662.5	642.0
50°	782.1	774.7	806.9	818.1	816.7	822.3	764.8	757.4	734.5	752.2	708.3
52.5°	788.7	802.2	832.6	873.2	890.5	902.2	854.1	851.3	826.5	837.7	777.0
55°	805.0	818.1	835.9	902.7	966.7	969.5	941.9	944.7	922.8	920.0	842.4
57.5°	804.6	801.7	850.8	928.4	1017.1	1057.3	1042.4	1028.8	1005.0	977.4	884.4
60°	775.1	773.7	824.6	931.6	1044.7	1136.7	1142.8	1126.9	1067.1	1026.5	934.0
62.5°	716.7	722.3	773.7	903.6	1070.9	1165.2	1187.7	1176.9	1102.6	1059.2	992.4
65°	649.9	638.2	698.0	833.5	1012.0	1156.8	1205.4	1201.7	1144.7	1094.7	1046.1
67.5°	521.4	526.6	572.3	717.2	911.5	1126.0	1247.0	1252.6	1178.3	1126.0	1062.5
70°	330.3	339.7	387.3	518.1	744.3	1028.8	1284.4	1300.7	1205.0	1123.2	1014.8
72.5°	96.2	100.0	164.9	258.4	474.2	825.1	1224.6	1233.0	1153.1	1019.5	784.9
75°	31.8	33.6	48.6	84.1	186.0	426.6	904.5	944.3	917.6	739.1	449.0
77.5°	21.0	22.0	26.6	40.2	70.6	133.6	485.0	527.5	517.2	346.2	144.8
80°	15.4	15.9	19.6	27.1	43.0	48.1	178.9	207.0	200.0	79.4	29.0
82.5°	9.8	9.8	14.5	19.2	27.1	23.8	51.9	57.5	56.1	30.4	11.2
85°	6.5	7.0	10.7	15.0	15.0	11.2	15.0	17.3	18.7	16.4	5.1
87.5°	1.9	2.3	6.1	10.3	6.1	5.6	5.1	5.6	6.5	8.9	2.8
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°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	225.7	227.5	227.1	228.0	226.6	225.2	226.6	226.6	226.6	225.2	224.3
5°	227.5	226.6	227.5	225.7	227.5	225.7	224.7	221.9	221.5	221.5	223.3
7.5°	230.3	231.3	227.1	227.1	222.9	223.8	221.5	221.9	221.0	219.6	218.7
10°	234.5	238.3	234.1	232.7	228.0	224.3	218.7	215.9	215.9	214.0	215.9
12.5°	246.2	244.8	242.5	237.8	232.2	224.7	211.2	197.6	186.4	178.0	182.2
15°	255.6	255.1	251.8	243.0	235.5	212.6	178.5	143.4	124.7	116.3	114.9
17.5°	270.1	268.7	263.0	251.4	226.6	176.1	122.4	93.0	74.8	70.6	69.1
20°	283.6	283.1	271.0	256.0	204.2	128.5	79.9	61.2	56.1	56.5	55.6
22.5°	298.1	295.8	281.3	250.4	162.6	85.5	57.0	54.7	52.8	52.3	53.3
25°	314.4	306.0	291.5	237.8	119.6	58.9	53.7	51.9	50.0	49.5	49.5
27.5°	321.0	315.4	296.2	207.4	75.7	51.4	50.5	48.1	45.8	44.4	43.9
30°	335.9	326.6	300.9	163.1	53.7	47.2	45.8	43.0	39.7	37.4	37.4
32.5°	350.9	339.7	301.4	114.0	44.9	42.5	40.2	36.4	32.2	29.9	30.4
35°	369.6	354.2	296.2	73.8	40.2	37.4	32.7	28.5	24.8	22.9	22.9
37.5°	401.3	386.9	275.2	48.6	36.4	31.8	27.1	22.4	19.2	17.8	17.8
40°	441.5	422.8	246.2	38.3	32.2	27.1	21.5	17.3	15.4	14.0	14.0
42.5°	489.6	466.3	203.2	34.1	28.5	22.4	16.8	13.5	11.7	11.7	11.2
45°	537.8	499.5	159.3	31.3	25.2	18.7	13.1	10.7	9.8	9.3	9.3
47.5°	606.5	539.6	114.0	28.5	22.0	14.5	10.7	8.9	7.9	7.5	7.9
50°	672.3	577.5	80.8	25.7	18.2	11.7	8.9	7.9	7.0	6.5	6.5
52.5°	730.3	603.6	56.5	22.4	15.4	9.8	7.9	7.0	6.5	6.1	6.1
55°	762.0	594.8	38.8	19.2	12.6	8.4	7.0	6.1	5.6	5.1	5.1
57.5°	794.7	570.0	29.4	15.9	10.3	7.9	6.5	5.6	5.1	4.7	4.7
60°	822.3	551.8	22.9	12.6	8.4	6.5	5.6	4.7	4.2	3.7	3.3
62.5°	823.7	515.3	16.8	9.3	6.5	5.6	4.7	3.7	2.3	1.9	1.4
65°	829.3	477.0	12.1	7.0	4.7	4.2	3.3	1.9	0.9	0.0	0.0
67.5°	809.7	431.7	9.8	5.1	3.3	2.3	1.4	0.5	0.0	0.0	0.0
70°	729.8	364.4	7.5	3.7	2.3	1.4	0.5	0.0	0.0	0.0	0.0
72.5°	522.4	236.9	5.1	2.8	0.9	0.5	0.0	0.0	0.0	0.0	0.0
75°	278.5	100.9	3.7	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	87.4	25.7	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.2	7.0	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)