

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: P674447

Luminaire Tested: **CCP-SA-1A-827-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674447
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-827-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

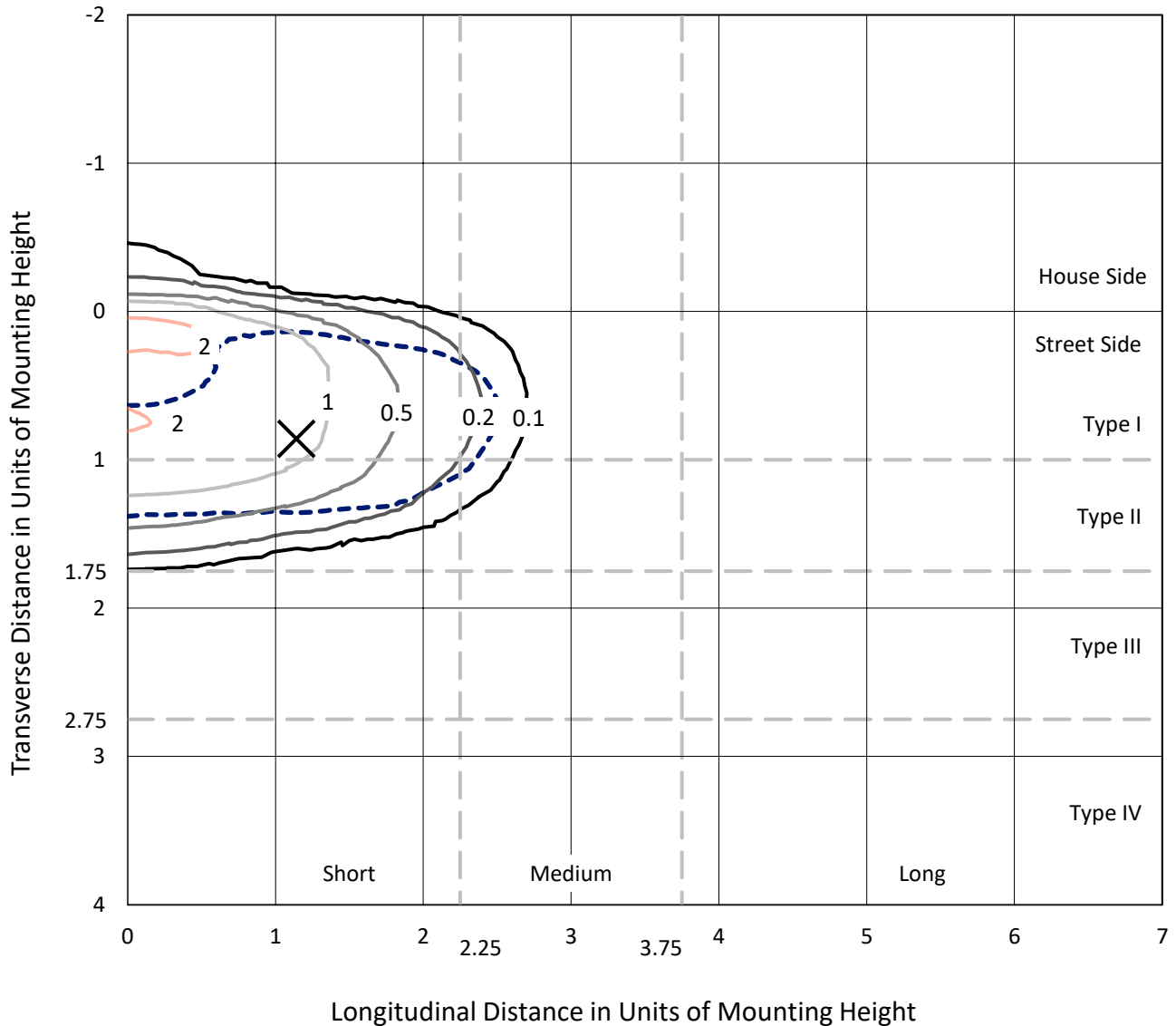
Lumens per Lamp: N/A
Luminaire Lumens: 1667.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

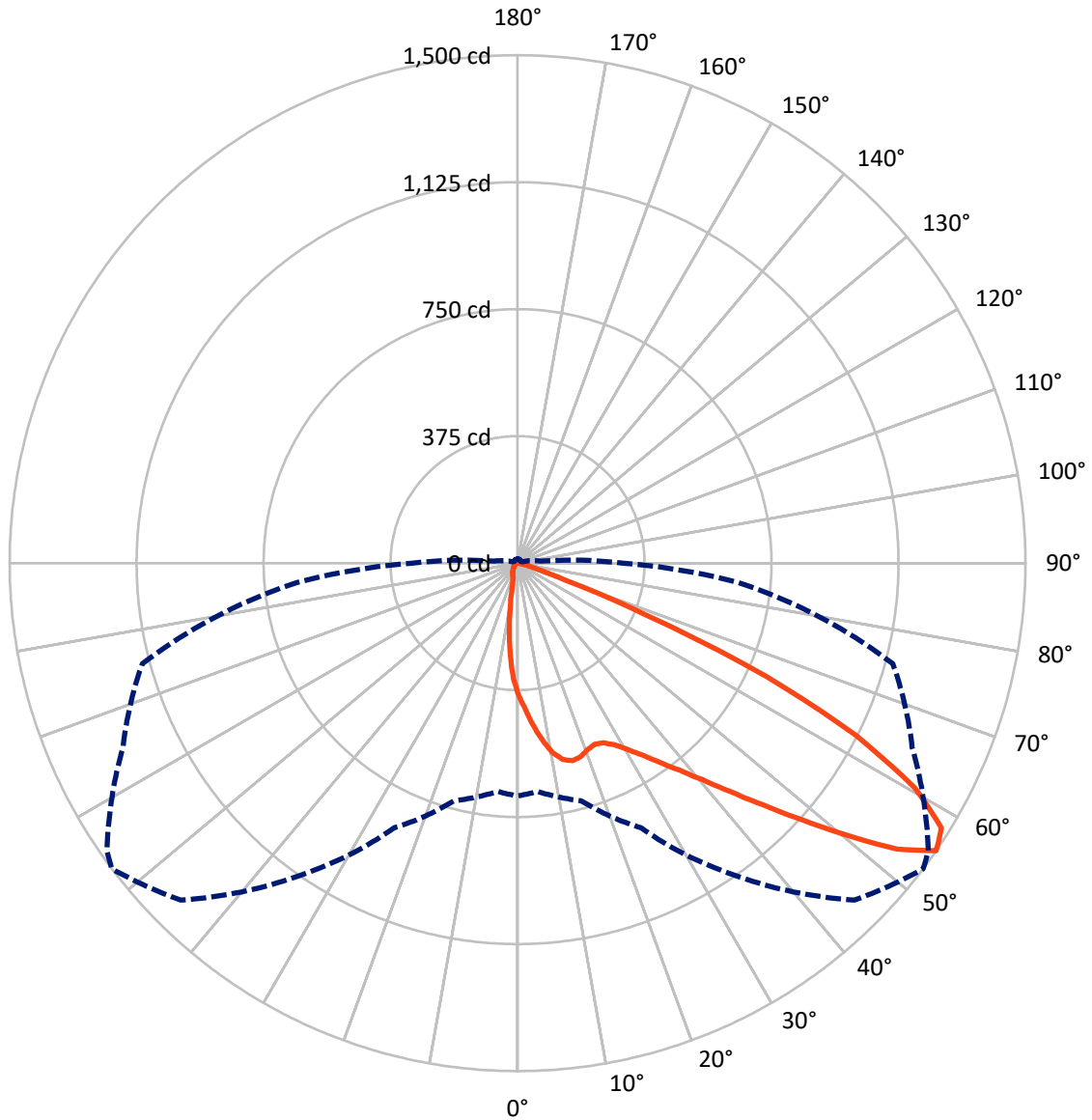
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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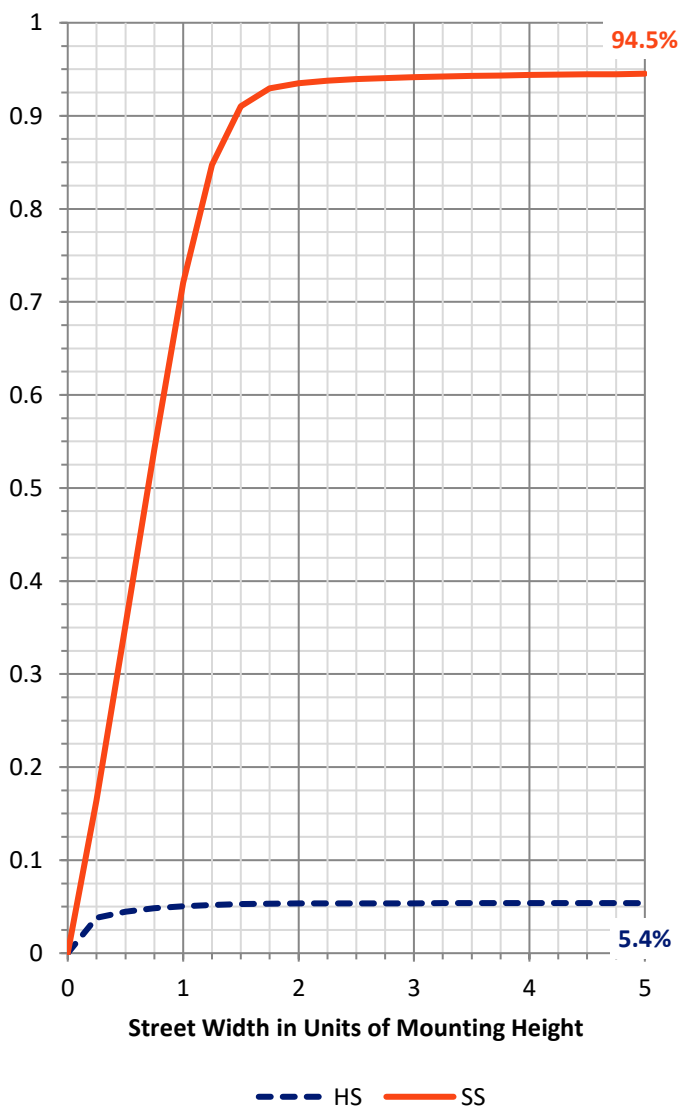
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	90.1	0.0	90.1
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	1577.6	0.0	1577.6
	% Fixture	94.6	0.0	94.6
Total	Lumens	1667.7	0.0	1667.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	2.1
10°-20°	91.2	5.5
20°-30°	152.6	9.2
30°-40°	249.7	15.0
40°-50°	401.3	24.1
50°-60°	453.1	27.2
60°-70°	241.7	14.5
70°-80°	39.7	2.4
80°-90°	3.6	0.2
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°	1667.7	100.0
0°-180°	1667.7	100.0



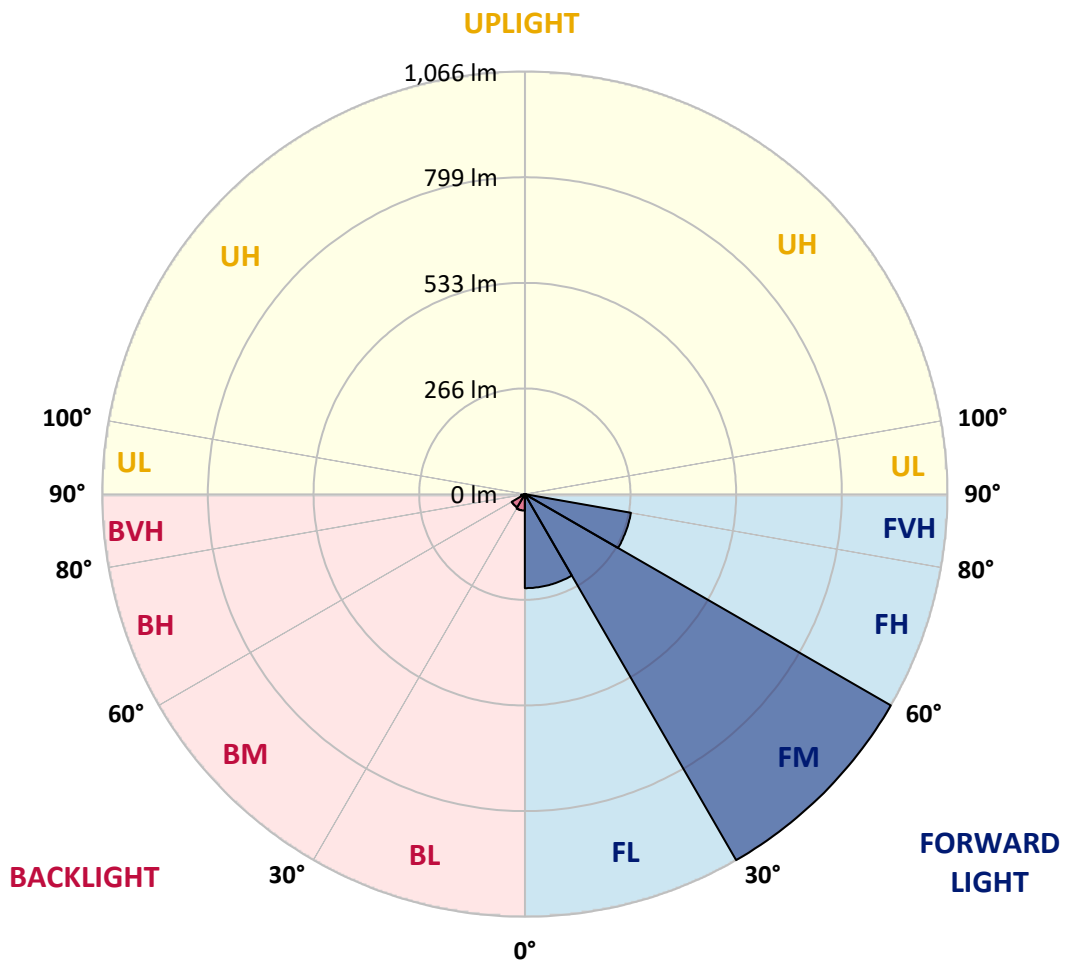
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.1	14.2			
FM (30°-60°)	1065.7	63.9			
FH (60°-80°)	271.5	16.3			G0/660
FVH (80°-90°)	3.3	0.2			G0/10
BL (0°-30°)	41.6	2.5	B0/110		
BM (30°-60°)	38.4	2.3	B0/220		
BH (60°-80°)	9.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3
2.5°	468.0	465.2	466.9	462.6	454.9	445.2	430.8	431.5	420.1	410.2	396.4
5°	545.3	542.4	541.5	530.7	519.9	502.5	481.0	477.5	456.6	431.3	402.6
7.5°	586.1	583.6	585.5	581.6	570.9	555.1	527.9	525.3	493.0	454.7	412.3
10°	567.4	566.5	574.5	583.9	592.5	590.6	568.8	564.8	528.5	480.4	422.4
12.5°	517.1	519.9	530.1	547.4	574.0	598.9	595.4	596.2	564.8	508.3	433.5
15°	487.6	491.0	496.8	505.7	538.5	582.9	605.5	612.8	599.5	539.5	446.7
17.5°	485.1	487.9	488.8	492.1	511.3	557.0	601.4	615.3	630.5	568.8	461.4
20°	504.3	505.4	504.7	502.2	509.1	543.0	588.6	608.4	656.1	600.1	474.4
22.5°	540.3	538.6	536.4	527.2	526.8	546.9	581.6	602.3	671.3	626.0	483.1
25°	585.1	581.4	578.3	565.3	559.2	567.5	587.8	604.5	685.0	651.1	489.2
27.5°	633.9	635.0	627.4	609.9	600.3	598.5	607.3	619.7	698.3	673.6	492.6
30°	686.0	686.6	676.7	658.6	649.8	638.5	638.0	645.4	712.6	699.5	495.8
32.5°	745.5	747.1	730.9	712.0	696.7	682.1	674.9	681.2	738.3	733.2	502.4
35°	831.4	824.4	802.5	774.0	752.2	733.1	722.1	726.2	772.5	773.7	515.5
37.5°	920.0	919.2	895.0	853.9	818.3	794.5	775.7	782.5	820.6	827.9	536.6
40°	1002.5	1004.4	983.4	947.6	901.7	860.8	840.8	845.3	884.5	893.7	562.1
42.5°	1056.4	1055.4	1057.0	1046.8	1000.8	952.6	922.5	924.9	958.7	963.5	594.1
45°	1081.3	1077.3	1091.1	1123.5	1105.2	1054.5	1020.2	1017.1	1035.7	1034.4	623.2
47.5°	1059.8	1052.5	1084.1	1162.2	1197.6	1182.3	1133.2	1127.6	1111.8	1101.3	653.4
50°	953.0	949.8	1017.3	1143.8	1255.6	1300.3	1264.2	1243.6	1179.8	1150.7	669.4
52.5°	851.4	842.5	888.1	1049.9	1229.7	1395.3	1402.7	1366.1	1236.2	1164.9	664.0
55°	687.8	676.8	726.5	862.5	1127.3	1407.4	1500.1	1480.9	1285.6	1147.3	653.0
57.5°	417.8	406.9	480.0	617.8	901.6	1306.6	1476.1	1495.5	1323.5	1128.0	645.8
60°	175.6	168.8	197.4	294.9	575.7	1073.8	1349.0	1397.5	1330.7	1101.6	648.8
62.5°	91.3	88.3	89.9	118.1	232.8	707.1	1122.8	1207.2	1258.5	1089.9	651.7
65°	68.5	66.2	61.1	64.9	90.4	305.7	806.9	920.0	1102.0	1060.2	632.0
67.5°	56.3	54.1	50.4	49.2	53.3	106.1	411.9	558.9	863.6	933.8	561.2
70°	44.9	44.1	43.0	40.8	40.0	51.4	147.7	227.8	571.0	658.6	406.8
72.5°	37.4	37.6	36.2	34.3	31.7	33.2	58.9	77.9	276.3	315.8	170.4
75°	31.3	31.3	31.7	29.1	26.4	22.8	32.7	38.0	88.7	72.9	36.4
77.5°	24.5	24.8	26.7	24.5	21.2	14.3	17.8	20.3	26.3	21.0	13.3
80°	19.6	19.3	18.6	22.1	19.0	10.1	8.5	9.4	12.3	10.1	6.6
82.5°	13.7	13.6	13.0	14.9	14.8	7.5	5.6	5.7	7.5	6.4	4.1
85°	3.4	3.9	8.3	7.0	6.1	4.4	3.4	3.7	4.8	4.2	2.2
87.5°	1.5	1.5	3.8	4.5	2.9	1.9	1.5	1.6	2.5	2.5	1.3
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°	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3
2.5°	391.6	382.1	370.1	357.4	344.4	328.8	318.8	310.6	304.2	299.3	297.5
5°	393.1	374.8	347.6	313.9	279.5	247.4	222.5	204.1	188.9	180.6	177.0
7.5°	392.9	368.7	319.6	263.0	207.2	160.9	128.0	107.7	94.1	88.5	85.2
10°	392.8	360.6	287.6	206.6	138.5	93.2	68.7	57.3	52.3	50.4	50.1
12.5°	397.0	351.4	251.8	152.1	86.9	58.0	47.8	45.2	44.0	43.4	43.3
15°	399.3	342.9	214.1	107.4	58.6	45.9	42.7	41.5	41.1	40.8	40.6
17.5°	401.8	329.8	178.3	77.7	46.9	41.6	39.7	39.0	38.7	38.7	38.7
20°	402.3	315.6	142.8	57.3	41.6	38.9	37.0	36.2	35.8	35.5	35.5
22.5°	399.1	298.8	112.2	46.5	38.6	36.2	34.2	33.0	32.3	32.1	32.1
25°	391.0	275.0	86.1	40.8	36.1	33.6	31.1	29.8	29.2	29.2	29.2
27.5°	379.5	246.9	66.5	36.2	32.9	30.4	28.2	27.0	26.9	26.7	26.9
30°	366.3	219.9	50.8	32.1	29.1	27.0	25.3	24.7	25.0	25.0	25.1
32.5°	353.2	192.9	39.7	28.9	25.7	24.0	23.1	23.1	23.5	23.5	23.5
35°	341.9	166.4	33.3	26.3	23.4	21.9	21.5	21.9	22.2	22.4	22.4
37.5°	335.6	143.6	29.4	24.0	21.5	20.3	20.2	20.6	21.2	21.6	21.8
40°	333.3	126.1	27.0	22.2	19.7	19.0	18.8	19.4	20.5	21.2	21.3
42.5°	333.4	110.6	25.0	20.5	18.6	17.5	17.5	18.4	19.4	20.2	20.2
45°	334.5	97.3	22.9	18.7	17.5	15.8	15.9	17.1	17.8	18.6	18.6
47.5°	335.3	86.6	20.7	16.8	15.2	14.3	14.6	15.5	16.5	17.7	17.7
50°	330.2	79.1	18.6	14.8	13.3	13.0	13.6	14.3	15.8	16.9	17.1
52.5°	318.0	72.2	16.7	13.2	12.0	12.1	12.9	13.3	14.5	14.6	14.8
55°	312.5	68.7	15.2	12.0	11.0	11.4	11.8	12.0	11.7	11.0	11.0
57.5°	311.4	66.3	13.7	10.8	10.1	10.7	10.5	9.6	8.8	7.9	7.7
60°	312.5	63.1	12.6	9.4	9.2	9.4	8.9	7.3	6.1	5.6	5.3
62.5°	305.8	58.4	11.5	8.0	8.0	7.9	6.7	5.0	3.9	3.5	3.4
65°	283.6	49.2	10.5	6.7	6.6	6.3	4.5	3.4	2.6	2.2	2.0
67.5°	239.9	38.1	9.5	5.6	5.3	4.4	2.9	2.2	1.5	1.3	1.2
70°	163.7	23.7	8.0	4.4	3.9	2.8	1.8	1.3	0.9	0.7	0.6
72.5°	59.3	13.7	6.7	3.4	2.6	1.8	1.0	0.6	0.4	0.4	0.3
75°	14.0	9.6	5.1	2.5	1.8	1.0	0.6	0.4	0.3	0.3	0.1
77.5°	6.4	7.5	3.4	1.5	1.2	0.7	0.4	0.3	0.1	0.1	0.0
80°	3.7	5.3	1.6	1.0	0.9	0.6	0.3	0.1	0.1	0.0	0.0
82.5°	1.9	2.9	1.2	0.9	0.7	0.4	0.3	0.0	0.0	0.0	0.0
85°	1.3	1.5	0.9	0.7	0.6	0.4	0.3	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	0.9	0.7	0.6	0.4	0.1	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)