

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: P676674

Luminaire Tested: **CCW-SA-1B-727-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676674
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-727-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2083.8 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

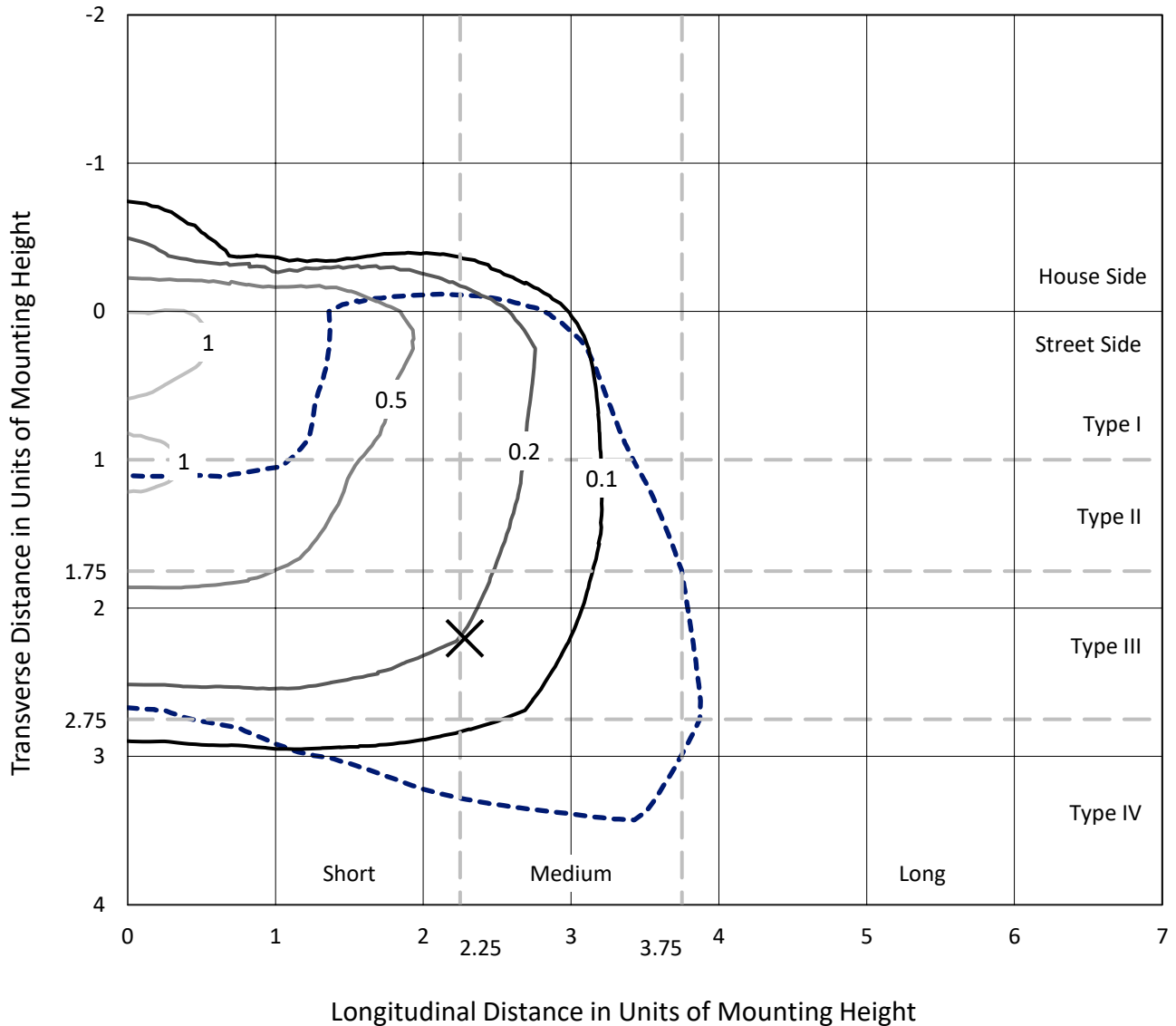
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

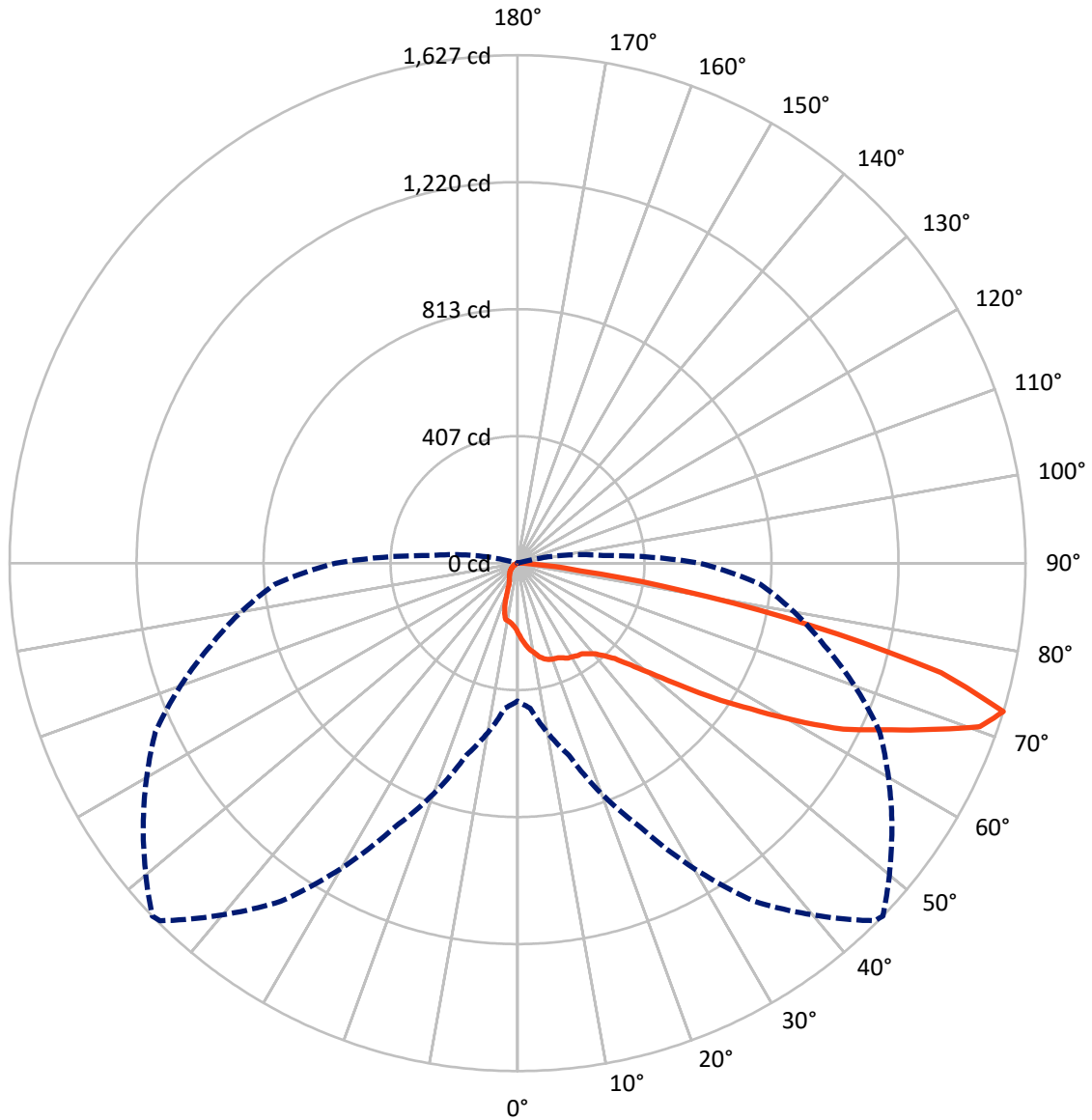
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type 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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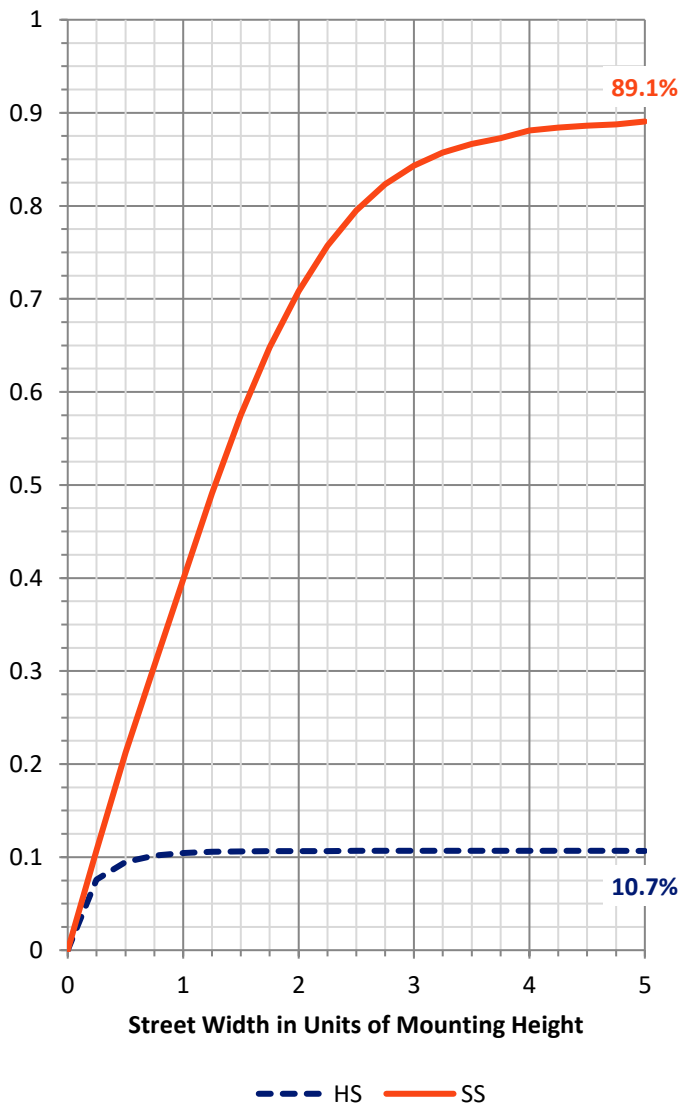
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	224.3	0.0	224.3
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1859.5	0.0	1859.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	2083.8	0.0	2083.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	1.1
10°-20°	67.3	3.2
20°-30°	105.4	5.1
30°-40°	147.5	7.1
40°-50°	243.3	11.7
50°-60°	437.3	21.0
60°-70°	633.8	30.4
70°-80°	395.6	19.0
80°-90°	31.4	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°	2083.8	100.0
0°-180°	2083.8	100.0

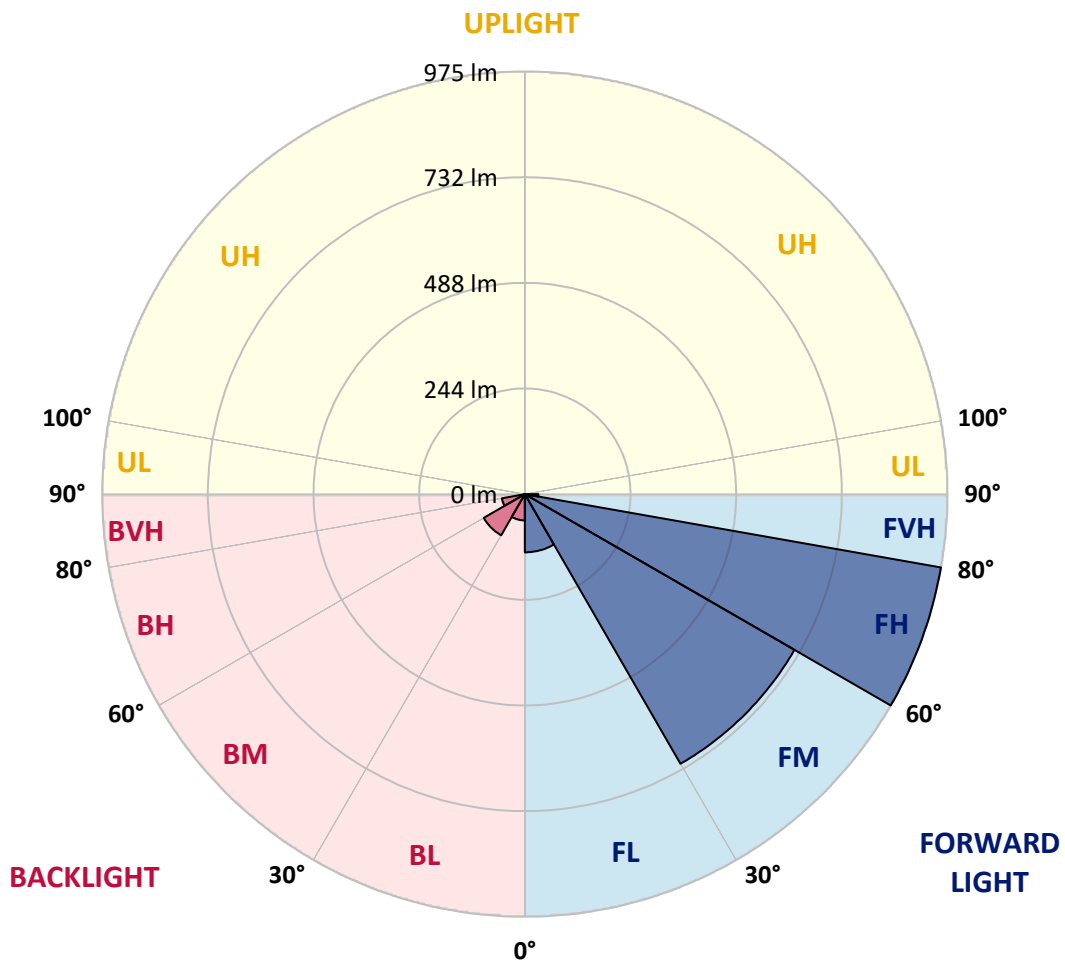


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	134.3	6.4			
FM (30°-60°)	718.5	34.5			
FH (60°-80°)	975.4	46.8			G1/1800
FVH (80°-90°)	31.2	1.5			G1/100
BL (0°-30°)	60.6	2.9	B0/110		
BM (30°-60°)	109.6	5.3	B0/220		
BH (60°-80°)	53.9	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°	222.7	222.7	222.7	222.7	222.7	222.7	222.7	222.7	222.7	222.7	222.7
2.5°	249.3	248.2	249.8	249.3	242.9	244.0	243.4	239.2	231.7	227.5	224.8
5°	278.0	280.6	278.5	273.7	270.0	262.6	261.5	254.6	242.9	235.5	227.5
7.5°	307.8	307.8	303.5	296.1	288.1	280.1	279.1	267.4	257.3	244.5	233.3
10°	330.1	327.4	324.2	316.3	307.2	296.6	291.3	282.8	271.6	256.2	241.8
12.5°	349.7	345.5	340.2	328.5	317.9	306.2	307.2	293.4	286.0	272.1	250.9
15°	360.9	357.2	352.4	341.8	325.3	320.0	317.9	309.3	296.1	282.2	262.0
17.5°	363.6	360.9	354.5	340.7	331.7	325.3	324.8	314.7	308.8	297.1	274.8
20°	358.2	353.5	348.7	339.6	331.1	329.0	327.4	327.4	320.0	304.6	282.8
22.5°	349.2	343.9	341.2	335.9	329.0	328.5	329.5	328.5	322.6	312.5	291.3
25°	342.3	339.6	335.4	333.8	329.5	337.5	335.9	334.3	332.7	321.0	304.6
27.5°	344.4	343.9	340.7	334.3	331.1	339.6	344.4	345.0	344.4	332.7	316.8
30°	345.5	342.8	339.6	338.0	339.1	347.6	347.6	359.3	354.5	342.8	329.0
32.5°	357.7	356.1	345.5	341.8	342.3	352.4	352.9	364.6	363.0	355.1	339.6
35°	383.8	373.1	357.7	347.1	347.1	360.4	356.1	373.1	377.4	364.6	347.1
37.5°	422.6	414.6	387.0	363.0	354.0	363.6	367.8	377.4	390.1	379.0	362.0
40°	499.6	498.0	458.7	407.1	371.5	380.0	381.6	396.5	405.0	389.6	384.8
42.5°	612.3	604.3	567.7	486.3	403.4	399.7	405.6	415.1	435.3	422.6	410.9
45°	722.3	718.6	681.9	591.1	461.4	439.0	435.9	452.9	482.6	468.8	459.8
47.5°	802.1	794.6	773.9	697.4	546.4	485.3	487.4	504.4	542.2	531.5	534.2
50°	863.2	859.5	837.7	795.7	653.8	558.1	553.8	570.9	621.9	628.8	636.2
52.5°	930.2	937.1	907.8	872.2	780.8	655.9	646.3	652.2	718.1	734.0	754.8
55°	994.5	1005.6	976.4	971.6	913.7	764.3	762.7	748.9	834.0	836.1	847.3
57.5°	1036.5	1032.8	1030.6	1056.7	1046.6	888.7	880.7	866.9	944.0	930.2	963.7
60°	1039.7	1050.3	1085.9	1150.2	1168.3	1034.9	1023.2	985.4	1039.1	1006.2	1070.0
62.5°	1063.6	1072.1	1138.0	1226.8	1250.1	1163.5	1171.5	1075.8	1120.5	1094.4	1188.0
65°	1003.0	1029.6	1161.9	1286.3	1357.5	1293.7	1285.8	1192.2	1203.9	1179.5	1304.4
67.5°	948.2	958.3	1096.5	1304.4	1442.6	1424.5	1421.3	1295.3	1290.0	1244.8	1337.3
70°	770.7	782.9	919.5	1211.9	1471.3	1577.0	1569.6	1439.9	1348.5	1209.2	1168.3
72.5°	441.7	466.1	637.3	933.4	1321.9	1619.6	1626.5	1463.3	1279.4	1016.8	780.3
75°	144.6	151.5	264.7	528.9	988.6	1412.8	1400.6	1257.6	1032.2	671.3	352.4
77.5°	48.9	50.0	78.1	191.3	548.0	954.6	961.5	898.8	634.1	279.1	97.3
80°	25.0	26.6	38.3	71.8	225.4	519.8	531.0	512.4	265.8	82.4	23.4
82.5°	11.7	12.2	22.3	39.9	103.1	204.1	204.1	224.3	94.1	46.2	9.6
85°	4.3	4.3	11.7	22.9	43.6	68.0	68.6	69.1	49.4	34.5	4.3
87.5°	1.6	1.6	5.8	9.6	15.9	20.7	20.7	16.5	25.0	22.9	1.6
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°	222.7	222.7	222.7	222.7	222.7	222.7	222.7	222.7	222.7	222.7	222.7
2.5°	223.8	220.6	217.9	214.2	209.4	206.8	207.3	204.1	204.1	202.5	202.0
5°	223.8	220.6	213.7	207.3	203.0	197.7	195.1	192.9	192.9	191.9	192.4
7.5°	225.4	220.6	211.0	202.5	195.6	190.3	186.0	185.5	184.4	181.8	183.9
10°	234.9	228.0	212.1	200.4	192.4	186.6	179.1	177.0	173.8	169.0	169.6
12.5°	242.9	233.9	219.5	203.6	193.5	183.9	166.9	148.3	140.3	131.8	132.3
15°	254.6	241.8	222.2	207.8	193.5	162.6	131.8	107.9	95.1	88.8	88.8
17.5°	261.0	250.3	229.6	210.5	178.1	132.3	93.5	72.8	70.7	71.8	71.8
20°	274.3	259.9	238.1	212.6	152.5	94.1	68.6	66.4	67.5	69.6	69.1
22.5°	282.8	268.4	244.5	203.0	118.0	67.5	64.3	63.3	64.3	67.0	67.0
25°	289.7	280.6	254.6	179.7	83.4	61.1	60.1	61.1	62.2	63.3	64.8
27.5°	306.7	291.3	261.5	149.4	60.1	56.9	57.9	58.5	58.5	60.1	60.6
30°	317.9	305.6	266.8	115.3	53.2	52.6	53.7	54.2	54.7	56.3	56.9
32.5°	328.5	324.2	259.9	78.1	50.0	48.9	48.4	48.9	51.0	52.6	52.1
35°	343.9	341.2	249.8	54.2	46.8	44.6	43.6	44.1	45.7	47.3	46.8
37.5°	362.5	365.2	225.4	47.3	43.6	40.9	38.8	38.8	39.3	40.9	41.5
40°	384.3	391.2	196.7	44.1	41.5	38.3	36.1	33.5	33.0	32.4	33.0
42.5°	424.2	432.1	164.2	42.0	38.3	34.5	31.4	28.2	25.5	23.9	23.9
45°	480.0	473.6	121.7	39.9	36.7	31.4	26.6	22.9	19.1	17.5	17.5
47.5°	557.0	535.2	83.4	37.7	34.0	27.6	22.3	17.5	14.4	12.8	12.8
50°	663.9	592.1	54.2	35.6	32.4	23.9	18.1	12.8	10.6	10.1	10.6
52.5°	764.9	650.1	43.1	33.0	29.2	20.7	13.8	10.6	9.6	9.0	9.0
55°	857.9	679.3	38.3	30.3	26.6	17.0	11.7	9.0	8.5	8.0	8.0
57.5°	936.5	689.4	33.0	26.6	21.3	13.3	9.6	8.0	6.9	6.4	6.4
60°	1004.6	692.0	25.5	21.3	15.4	10.1	8.0	6.9	5.8	4.8	4.8
62.5°	1058.8	673.4	18.1	14.9	10.6	8.0	6.9	4.8	3.2	2.1	1.6
65°	1101.9	636.2	12.2	10.1	6.9	5.8	4.3	2.1	0.5	0.0	0.0
67.5°	1051.4	551.7	9.6	7.4	4.8	3.7	2.1	0.5	0.0	0.0	0.0
70°	857.3	427.9	6.9	4.8	3.2	1.1	0.5	0.0	0.0	0.0	0.0
72.5°	583.6	275.9	5.3	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0
75°	262.0	98.9	3.7	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	63.8	23.4	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.0	5.8	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.4	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.5	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)