

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: P675775

Luminaire Tested: **CCW-SA-1A-850-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675775
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

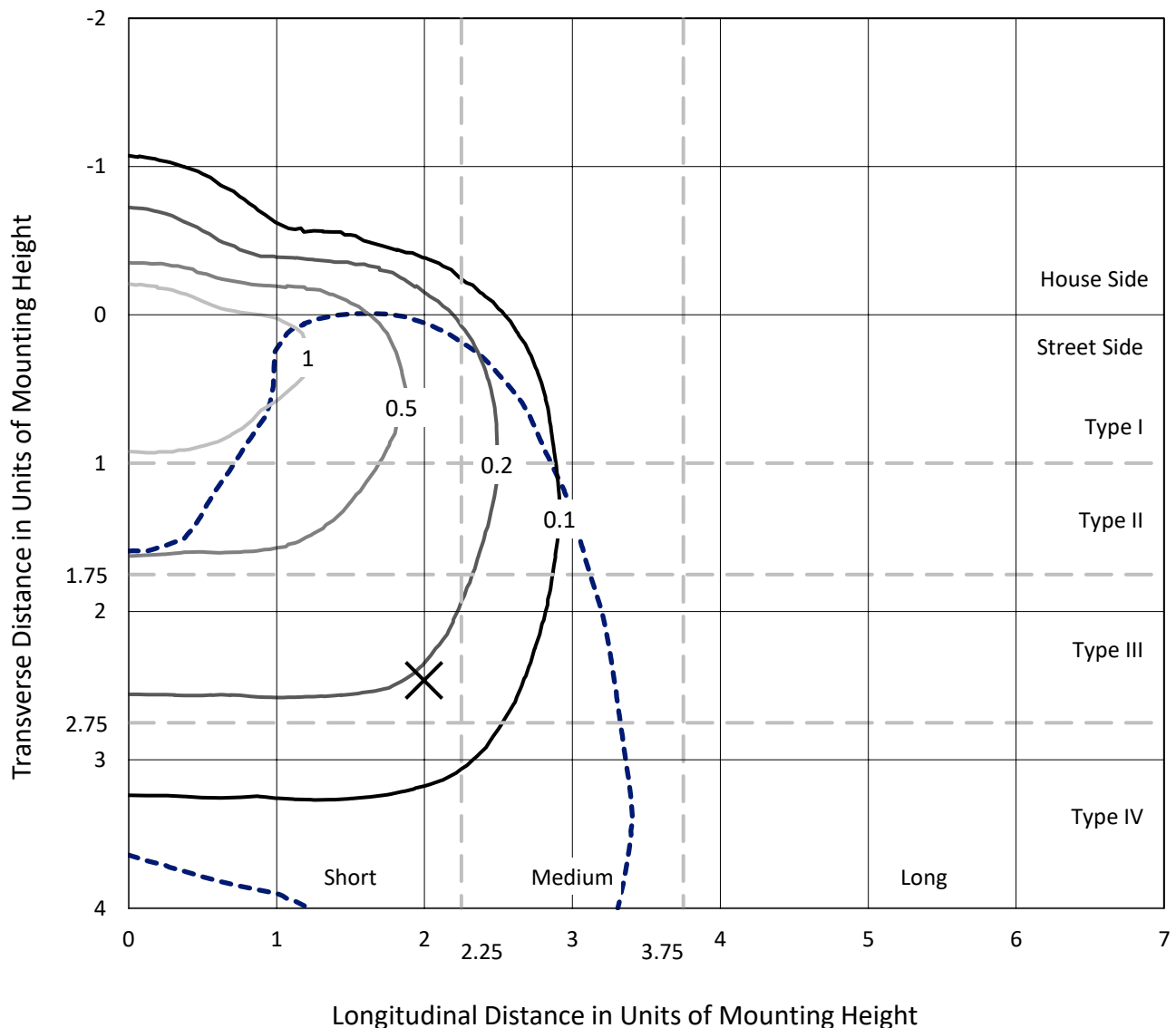
Lumens per Lamp: N/A
Luminaire Lumens: 2339.3 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

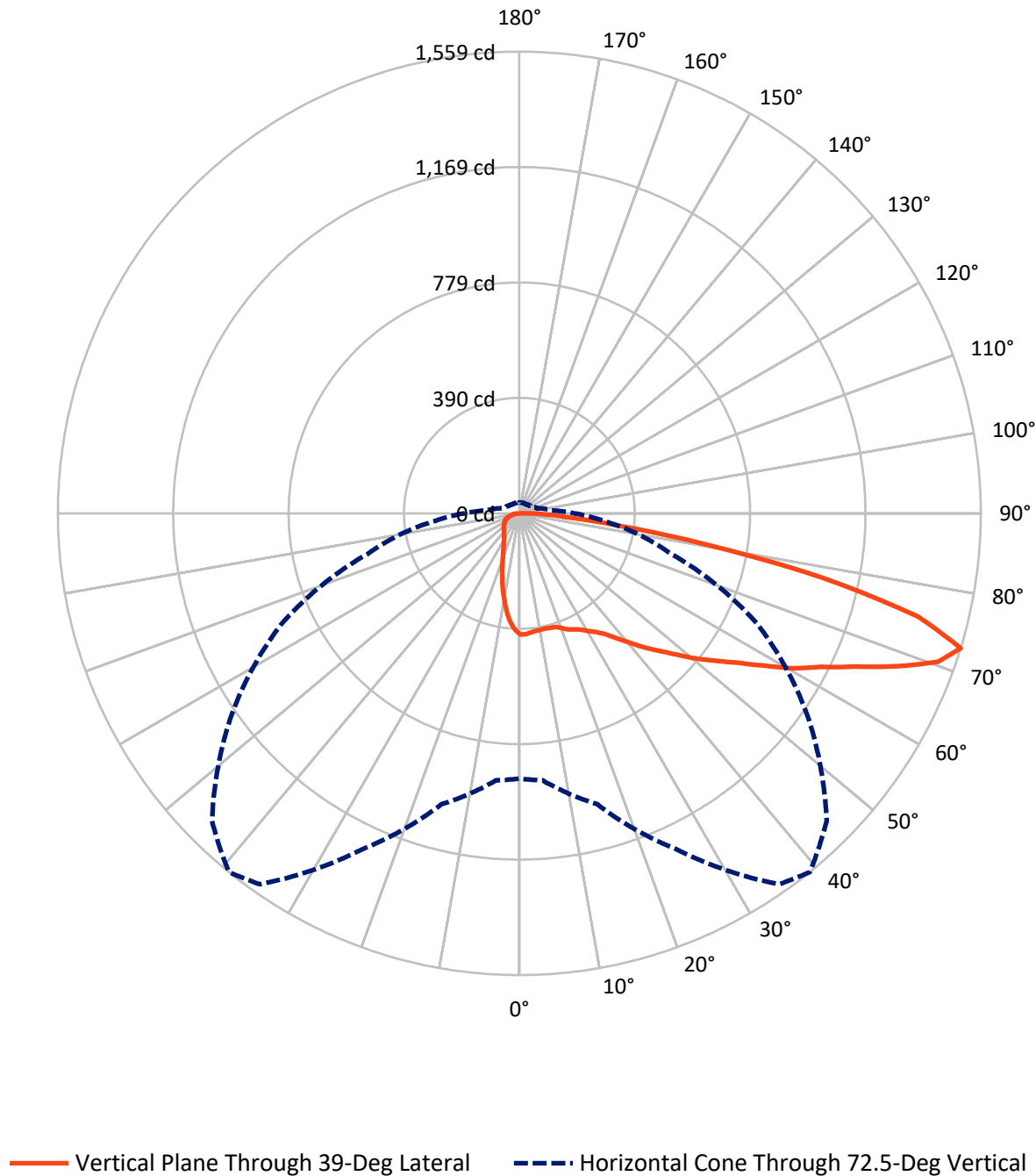
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.7	0.0	347.7
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	1991.7	0.0	1991.7
	% Fixture	85.1	0.0	85.1
Total	Lumens	2339.3	0.0	2339.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	1.5
10°-20°	92.4	3.9
20°-30°	140.7	6.0
30°-40°	205.8	8.8
40°-50°	315.1	13.5
50°-60°	462.1	19.8
60°-70°	589.4	25.2
70°-80°	425.8	18.2
80°-90°	71.8	3.1
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°	2339.3	100.0
0°-180°	2339.3	100.0



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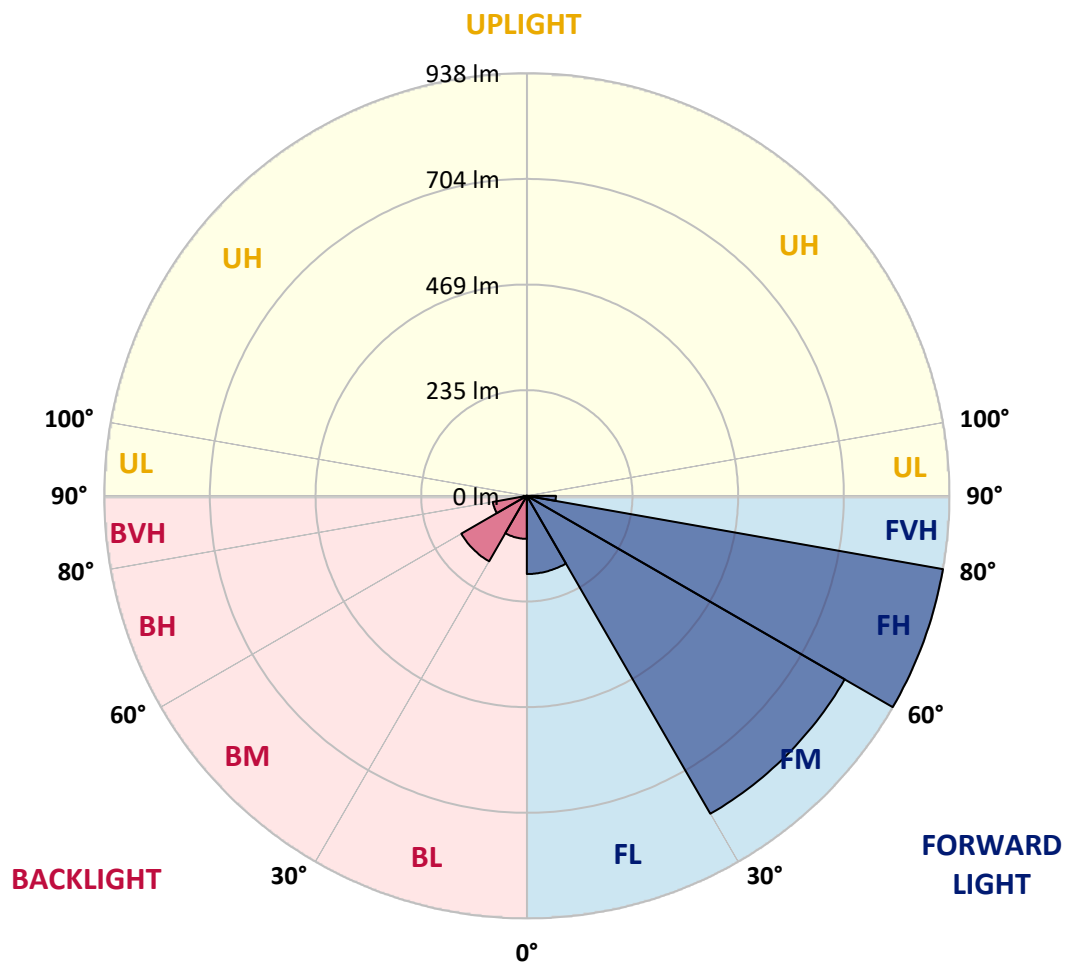
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	173.6	7.4			
FM	(30°-60°)	815.1	34.8			
FH	(60°-80°)	938.4	40.1			G1/1800
FVH	(80°-90°)	64.6	2.8			G1/100
BL	(0°-30°)	95.6	4.1	B0/110		
BM	(30°-60°)	168.0	7.2	B0/220		
BH	(60°-80°)	76.8	3.3	B0/110		G0/110
BVH	(80°-90°)	7.3	0.3			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5
2.5°	415.6	416.5	414.8	413.0	412.1	408.6	412.1	410.4	408.6	408.6	408.6
5°	410.4	411.2	411.2	409.5	410.4	404.2	403.3	404.2	401.6	399.8	398.9
7.5°	402.5	404.2	407.7	406.9	403.3	400.7	401.6	400.7	396.3	393.7	386.6
10°	396.3	398.1	399.8	401.6	400.7	399.8	398.9	395.4	394.5	388.4	381.4
12.5°	390.2	390.2	391.0	398.1	398.9	398.9	393.7	393.7	391.0	390.2	379.6
15°	384.0	386.6	393.7	395.4	398.9	400.7	398.1	398.1	393.7	387.5	379.6
17.5°	385.8	390.2	397.2	401.6	403.3	403.3	406.9	404.2	398.1	394.5	386.6
20°	394.5	395.4	404.2	412.1	413.9	413.9	410.4	407.7	403.3	397.2	386.6
22.5°	399.8	406.0	416.5	420.9	426.2	426.2	421.8	415.6	409.5	403.3	391.9
25°	422.7	423.5	427.9	435.0	437.6	434.1	429.7	422.7	414.8	408.6	398.1
27.5°	438.5	442.9	448.2	451.7	447.3	444.6	441.1	433.2	427.1	421.8	406.9
30°	467.5	462.2	465.7	467.5	459.6	461.3	451.7	444.6	437.6	437.6	420.9
32.5°	485.1	489.5	485.9	485.1	478.9	478.0	471.9	464.0	459.6	464.8	442.0
35°	515.8	513.2	513.2	512.3	505.3	500.9	500.9	486.8	491.2	502.6	474.5
37.5°	531.6	530.8	536.0	540.4	533.4	536.0	533.4	527.2	529.0	549.2	514.9
40°	547.4	553.6	564.1	565.9	570.3	573.8	572.1	571.2	578.2	610.7	569.4
42.5°	562.4	567.7	583.5	597.5	608.1	619.5	620.4	620.4	643.2	689.8	635.3
45°	581.7	586.1	608.1	636.2	653.8	661.7	668.7	676.6	707.4	762.7	705.6
47.5°	608.1	611.6	638.0	673.1	707.4	711.8	725.8	734.6	781.2	837.4	777.7
50°	645.9	643.2	664.3	715.3	748.7	769.8	790.0	805.8	851.5	913.0	833.9
52.5°	676.6	676.6	692.4	760.1	805.8	826.0	847.1	869.1	921.8	988.6	879.6
55°	729.3	724.1	733.7	804.0	869.9	889.3	929.7	948.1	999.1	1044.8	918.3
57.5°	765.4	768.0	779.4	862.0	945.5	969.2	1009.7	1022.8	1067.7	1103.7	946.4
60°	812.8	804.0	828.6	926.2	1029.0	1062.4	1095.8	1103.7	1137.1	1141.5	959.6
62.5°	858.5	856.8	877.9	990.3	1118.6	1142.3	1176.6	1185.4	1199.5	1171.3	941.1
65°	886.6	898.1	937.6	1060.6	1220.6	1246.9	1281.2	1263.6	1247.8	1145.0	850.6
67.5°	925.3	930.6	991.2	1137.1	1338.3	1377.8	1407.7	1338.3	1220.6	1036.9	716.2
70°	934.1	948.1	1027.2	1217.0	1459.6	1500.0	1501.7	1312.8	1121.3	843.6	519.3
72.5°	895.4	905.1	1016.7	1250.4	1529.0	1558.9	1468.4	1187.2	888.4	531.6	283.0
75°	753.1	780.3	884.9	1147.6	1401.6	1390.1	1244.3	906.0	533.4	235.5	119.5
77.5°	524.6	525.5	634.4	834.8	1049.2	1046.6	887.5	525.5	228.5	94.9	70.3
80°	232.9	249.6	315.5	449.9	637.1	637.1	517.6	261.0	114.2	61.5	48.3
82.5°	137.1	142.4	168.7	210.0	310.2	326.9	247.8	174.0	78.2	38.7	29.9
85°	101.1	109.8	125.7	126.5	146.7	149.4	137.1	151.1	53.6	21.1	24.6
87.5°	75.6	80.8	100.2	83.5	78.2	73.8	84.4	154.7	20.2	10.5	7.9
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°	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5
2.5°	405.1	405.1	403.3	399.8	399.8	392.8	394.5	396.3	391.9	391.9	392.8
5°	398.9	395.4	391.0	385.8	382.2	372.6	370.8	364.7	363.8	362.0	359.4
7.5°	386.6	381.4	373.5	365.6	354.1	345.3	334.8	326.0	322.5	319.9	319.0
10°	375.2	374.3	361.2	345.3	327.8	311.1	295.3	283.8	276.8	272.4	271.5
12.5°	375.2	368.2	349.7	327.8	302.3	277.7	257.5	241.7	232.0	225.0	222.3
15°	373.5	366.4	341.8	308.4	279.4	246.0	217.9	201.2	187.2	180.1	181.0
17.5°	375.2	364.7	330.4	294.4	254.0	217.9	184.5	164.3	150.3	145.0	144.1
20°	376.1	362.9	321.6	275.0	227.6	187.2	155.5	136.2	125.7	122.1	122.1
22.5°	374.3	357.6	308.4	252.2	204.7	161.7	135.3	118.6	111.6	107.2	109.0
25°	382.2	356.8	296.1	232.9	178.4	140.6	120.4	108.1	103.7	101.1	101.9
27.5°	384.0	356.8	286.5	210.9	155.5	124.8	109.0	101.1	97.5	95.8	94.9
30°	391.0	358.5	275.0	188.9	137.1	112.5	100.2	95.8	93.1	92.3	92.3
32.5°	410.4	363.8	262.7	170.5	121.3	101.9	94.0	90.5	88.8	87.9	88.8
35°	433.2	377.9	249.6	151.1	109.8	94.9	88.8	86.1	85.2	85.2	85.2
37.5°	468.4	398.9	238.1	135.3	100.2	87.9	83.5	82.6	81.7	82.6	82.6
40°	508.8	421.8	227.6	123.0	93.1	83.5	79.1	79.1	78.2	79.1	80.0
42.5°	555.4	449.9	217.0	110.7	87.0	80.0	76.4	75.6	74.7	76.4	77.3
45°	619.5	488.6	210.0	103.7	82.6	76.4	72.9	72.9	72.1	72.1	73.8
47.5°	673.1	525.5	210.0	96.7	80.0	73.8	70.3	70.3	68.5	69.4	69.4
50°	717.9	557.1	214.4	94.9	76.4	71.2	68.5	66.8	65.9	65.9	65.9
52.5°	747.8	576.4	217.9	93.1	74.7	67.7	65.9	65.0	63.3	62.4	63.3
55°	777.7	589.6	218.8	93.1	72.1	64.1	62.4	62.4	60.6	59.8	59.8
57.5°	789.1	584.4	206.5	91.4	70.3	61.5	59.8	58.9	58.0	57.1	57.1
60°	783.8	565.0	179.3	87.0	68.5	59.8	56.2	56.2	56.2	54.5	55.4
62.5°	747.8	499.1	144.1	80.0	65.9	56.2	52.7	54.5	54.5	53.6	53.6
65°	652.9	412.1	116.9	73.8	62.4	53.6	50.1	52.7	53.6	52.7	51.8
67.5°	522.0	317.2	96.7	66.8	58.0	49.2	46.6	49.2	50.1	49.2	49.2
70°	358.5	204.7	78.2	59.8	51.8	44.8	42.2	43.9	43.9	44.8	44.8
72.5°	185.4	110.7	64.1	51.0	44.8	40.4	37.8	37.8	36.9	36.9	36.9
75°	92.3	75.6	53.6	43.1	37.8	34.3	32.5	30.8	30.8	30.8	30.8
77.5°	64.1	58.0	43.9	34.3	30.8	28.1	28.1	25.5	25.5	25.5	25.5
80°	48.3	45.7	33.4	26.4	23.7	22.0	22.0	21.1	21.1	20.2	20.2
82.5°	34.3	36.9	25.5	19.3	17.6	16.7	16.7	15.8	15.8	14.1	14.1
85°	27.2	30.8	19.3	14.1	13.2	11.4	11.4	10.5	10.5	9.7	8.8
87.5°	7.9	16.7	7.9	5.3	5.3	5.3	5.3	4.4	4.4	3.5	3.5
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)