

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: P675698

Luminaire Tested: **CCW-SA-1A-740-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675698
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-740-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

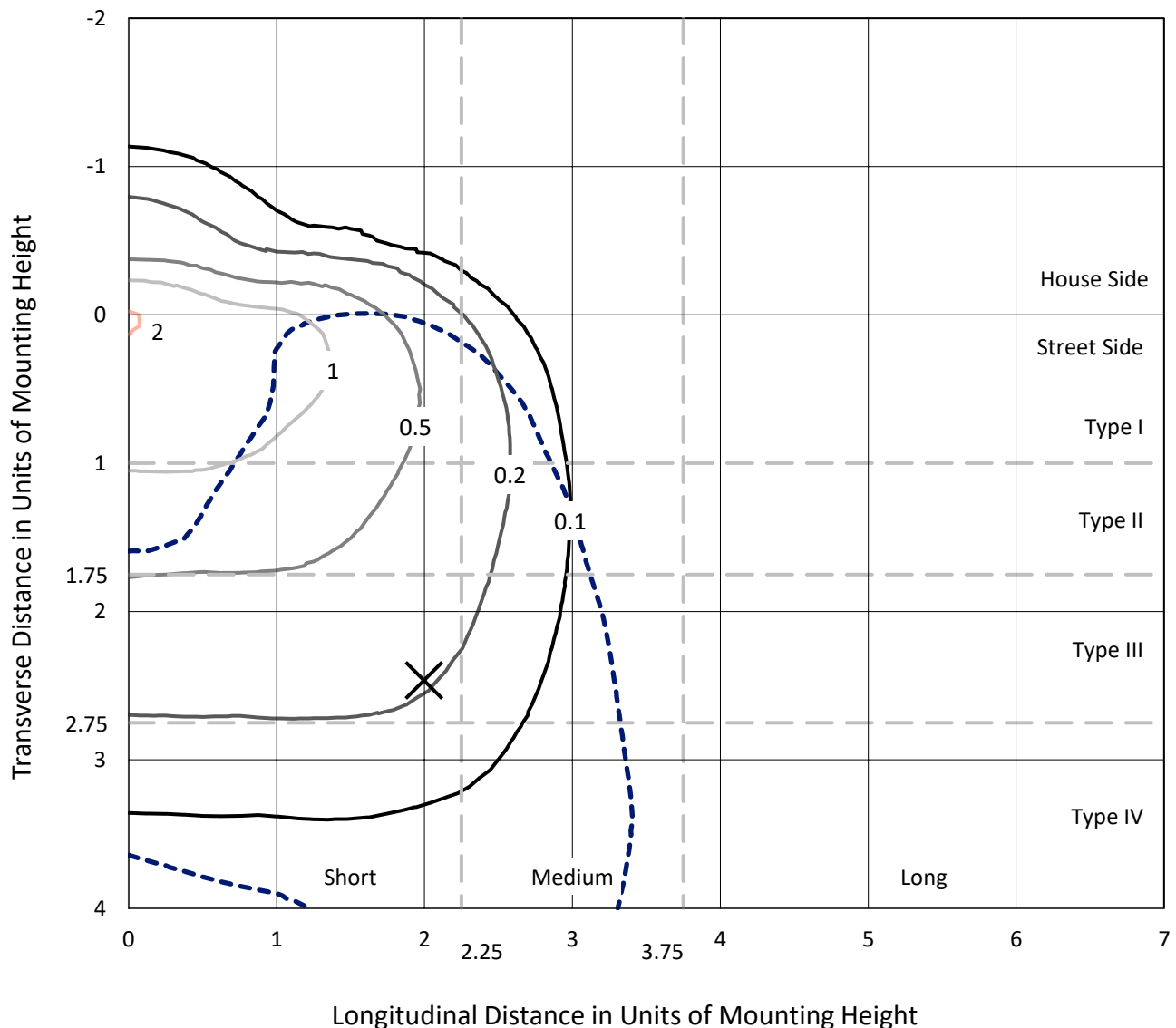
Lumens per Lamp: N/A
Luminaire Lumens: 2680.9 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

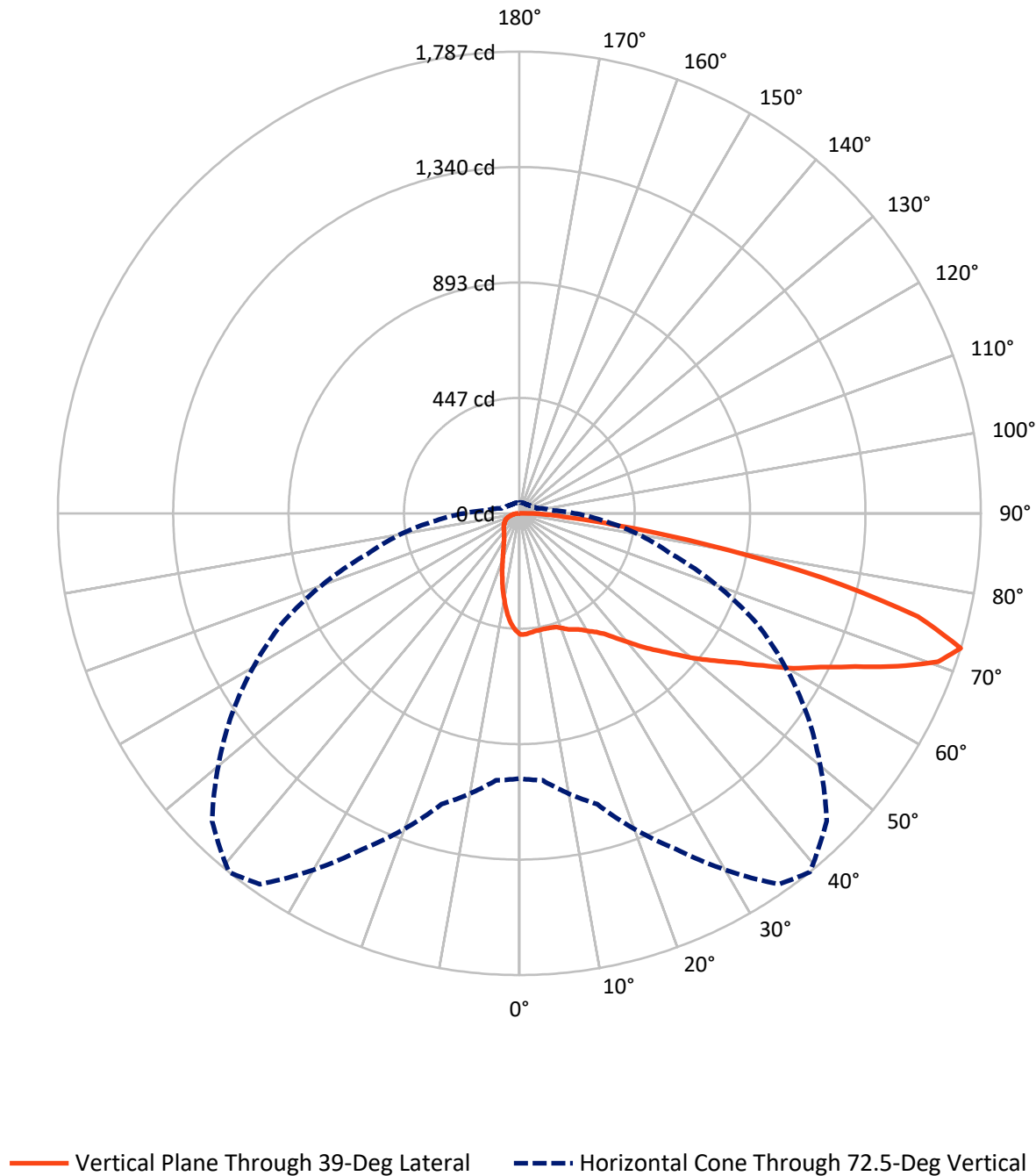
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 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	398.4	0.0	398.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2282.5	0.0	2282.5
	% Fixture	85.1	0.0	85.1
Total	Lumens	2680.9	0.0	2680.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	1.5
10°-20°	105.8	3.9
20°-30°	161.2	6.0
30°-40°	235.9	8.8
40°-50°	361.1	13.5
50°-60°	529.6	19.8
60°-70°	675.4	25.2
70°-80°	488.0	18.2
80°-90°	82.3	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°	2680.9	100.0
0°-180°	2680.9	100.0



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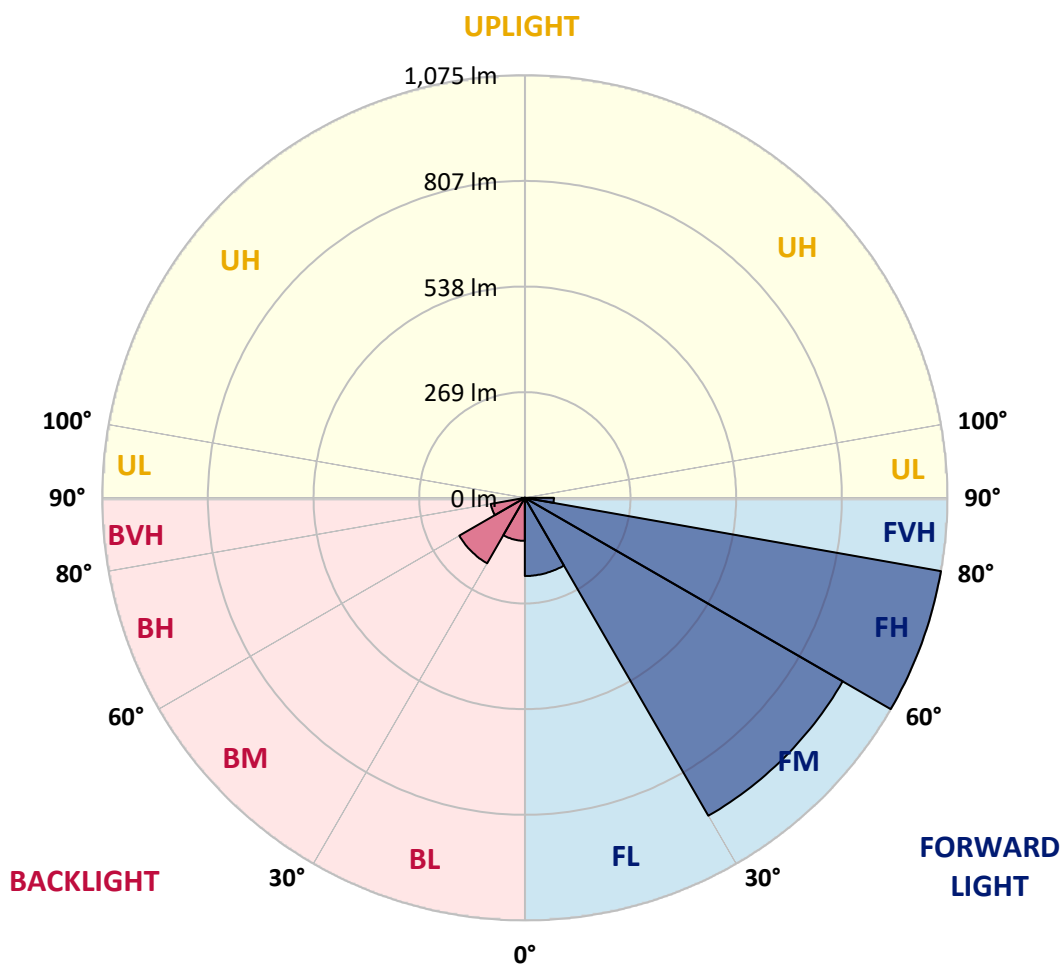
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	199.0	7.4			
FM	(30°-60°)	934.1	34.8			
FH	(60°-80°)	1075.4	40.1			G1/1800
FVH	(80°-90°)	74.0	2.8			G1/100
BL	(0°-30°)	109.6	4.1	B0/110		
BM	(30°-60°)	192.5	7.2	B0/220		
BH	(60°-80°)	88.0	3.3	B0/110		G0/110
BVH	(80°-90°)	8.3	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°	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3
2.5°	476.3	477.3	475.3	473.3	472.3	468.3	472.3	470.3	468.3	468.3	468.3
5°	470.3	471.3	471.3	469.3	470.3	463.2	462.2	463.2	460.2	458.2	457.2
7.5°	461.2	463.2	467.3	466.3	462.2	459.2	460.2	459.2	454.2	451.1	443.1
10°	454.2	456.2	458.2	460.2	459.2	458.2	457.2	453.2	452.2	445.1	437.0
12.5°	447.1	447.1	448.1	456.2	457.2	457.2	451.1	451.1	448.1	447.1	435.0
15°	440.1	443.1	451.1	453.2	457.2	459.2	456.2	456.2	451.1	444.1	435.0
17.5°	442.1	447.1	455.2	460.2	462.2	462.2	466.3	463.2	456.2	452.2	443.1
20°	452.2	453.2	463.2	472.3	474.3	474.3	470.3	467.3	462.2	455.2	443.1
22.5°	458.2	465.2	477.3	482.4	488.4	488.4	483.4	476.3	469.3	462.2	449.1
25°	484.4	485.4	490.4	498.5	501.5	497.5	492.4	484.4	475.3	468.3	456.2
27.5°	502.5	507.5	513.6	517.6	512.6	509.6	505.5	496.5	489.4	483.4	466.3
30°	535.7	529.7	533.7	535.7	526.7	528.7	517.6	509.6	501.5	501.5	482.4
32.5°	555.9	560.9	556.9	555.9	548.8	547.8	540.8	531.7	526.7	532.7	506.5
35°	591.1	588.1	588.1	587.1	579.0	574.0	574.0	557.9	562.9	576.0	543.8
37.5°	609.2	608.2	614.3	619.3	611.3	614.3	611.3	604.2	606.2	629.4	590.1
40°	627.4	634.4	646.5	648.5	653.6	657.6	655.6	654.6	662.6	699.9	652.6
42.5°	644.5	650.5	668.7	684.8	696.9	710.0	711.0	711.0	737.1	790.5	728.1
45°	666.6	671.7	696.9	729.1	749.2	758.3	766.3	775.4	810.7	874.1	808.6
47.5°	696.9	700.9	731.1	771.4	810.7	815.7	831.8	841.9	895.2	959.7	891.2
50°	740.2	737.1	761.3	819.7	858.0	882.2	905.3	923.4	975.8	1046.3	955.7
52.5°	775.4	775.4	793.5	871.1	923.4	946.6	970.8	995.9	1056.4	1132.9	1008.0
55°	835.8	829.8	840.9	921.4	997.0	1019.1	1065.4	1086.6	1145.0	1197.4	1052.3
57.5°	877.1	880.1	893.2	987.9	1083.6	1110.7	1157.1	1172.2	1223.5	1264.8	1084.6
60°	931.5	921.4	949.6	1061.4	1179.2	1217.5	1255.8	1264.8	1303.1	1308.1	1099.7
62.5°	983.9	981.8	1006.0	1134.9	1281.9	1309.1	1348.4	1358.5	1374.6	1342.4	1078.5
65°	1016.1	1029.2	1074.5	1215.5	1398.8	1429.0	1468.2	1448.1	1430.0	1312.2	974.8
67.5°	1060.4	1066.4	1135.9	1303.1	1533.7	1579.0	1613.3	1533.7	1398.8	1188.3	820.7
70°	1070.5	1086.6	1177.2	1394.7	1672.7	1719.0	1721.0	1504.5	1285.0	966.7	595.2
72.5°	1026.2	1037.2	1165.1	1433.0	1752.2	1786.5	1682.7	1360.5	1018.1	609.2	324.3
75°	863.0	894.2	1014.1	1315.2	1606.2	1593.1	1425.9	1038.2	611.3	269.9	137.0
77.5°	601.2	602.2	727.1	956.7	1202.4	1199.4	1017.1	602.2	261.8	108.8	80.6
80°	266.9	286.0	361.5	515.6	730.1	730.1	593.1	299.1	130.9	70.5	55.4
82.5°	157.1	163.1	193.3	240.7	355.5	374.6	284.0	199.4	89.6	44.3	34.2
85°	115.8	125.9	144.0	145.0	168.2	171.2	157.1	173.2	61.4	24.2	28.2
87.5°	86.6	92.6	114.8	95.7	89.6	84.6	96.7	177.2	23.2	12.1	9.1
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°	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3
2.5°	464.2	464.2	462.2	458.2	458.2	450.1	452.2	454.2	449.1	449.1	450.1
5°	457.2	453.2	448.1	442.1	438.1	427.0	425.0	417.9	416.9	414.9	411.9
7.5°	443.1	437.0	428.0	418.9	405.8	395.8	383.7	373.6	369.6	366.6	365.5
10°	430.0	429.0	413.9	395.8	375.6	356.5	338.4	325.3	317.2	312.2	311.2
12.5°	430.0	421.9	400.8	375.6	346.4	318.2	295.1	276.9	265.9	257.8	254.8
15°	428.0	419.9	391.7	353.5	320.2	282.0	249.7	230.6	214.5	206.4	207.4
17.5°	430.0	417.9	378.6	337.4	291.0	249.7	211.5	188.3	172.2	166.2	165.2
20°	431.0	415.9	368.6	315.2	260.8	214.5	178.2	156.1	144.0	140.0	140.0
22.5°	429.0	409.9	353.5	289.0	234.6	185.3	155.1	135.9	127.9	122.9	124.9
25°	438.1	408.9	339.4	266.9	204.4	161.1	138.0	123.9	118.8	115.8	116.8
27.5°	440.1	408.9	328.3	241.7	178.2	143.0	124.9	115.8	111.8	109.8	108.8
30°	448.1	410.9	315.2	216.5	157.1	128.9	114.8	109.8	106.7	105.7	105.7
32.5°	470.3	416.9	301.1	195.4	139.0	116.8	107.8	103.7	101.7	100.7	101.7
35°	496.5	433.0	286.0	173.2	125.9	108.8	101.7	98.7	97.7	97.7	97.7
37.5°	536.7	457.2	272.9	155.1	114.8	100.7	95.7	94.7	93.7	94.7	94.7
40°	583.1	483.4	260.8	141.0	106.7	95.7	90.6	90.6	89.6	90.6	91.6
42.5°	636.4	515.6	248.7	126.9	99.7	91.6	87.6	86.6	85.6	87.6	88.6
45°	710.0	559.9	240.7	118.8	94.7	87.6	83.6	83.6	82.6	82.6	84.6
47.5°	771.4	602.2	240.7	110.8	91.6	84.6	80.6	80.6	78.5	79.6	79.6
50°	822.7	638.5	245.7	108.8	87.6	81.6	78.5	76.5	75.5	75.5	75.5
52.5°	857.0	660.6	249.7	106.7	85.6	77.5	75.5	74.5	72.5	71.5	72.5
55°	891.2	675.7	250.7	106.7	82.6	73.5	71.5	71.5	69.5	68.5	68.5
57.5°	904.3	669.7	236.7	104.7	80.6	70.5	68.5	67.5	66.5	65.5	65.5
60°	898.3	647.5	205.4	99.7	78.5	68.5	64.4	64.4	64.4	62.4	63.4
62.5°	857.0	572.0	165.2	91.6	75.5	64.4	60.4	62.4	62.4	61.4	61.4
65°	748.2	472.3	133.9	84.6	71.5	61.4	57.4	60.4	61.4	60.4	59.4
67.5°	598.2	363.5	110.8	76.5	66.5	56.4	53.4	56.4	57.4	56.4	56.4
70°	410.9	234.6	89.6	68.5	59.4	51.4	48.3	50.4	50.4	51.4	51.4
72.5°	212.5	126.9	73.5	58.4	51.4	46.3	43.3	43.3	42.3	42.3	42.3
75°	105.7	86.6	61.4	49.3	43.3	39.3	37.3	35.2	35.2	35.2	35.2
77.5°	73.5	66.5	50.4	39.3	35.2	32.2	32.2	29.2	29.2	29.2	29.2
80°	55.4	52.4	38.3	30.2	27.2	25.2	25.2	24.2	24.2	23.2	23.2
82.5°	39.3	42.3	29.2	22.2	20.1	19.1	19.1	18.1	18.1	16.1	16.1
85°	31.2	35.2	22.2	16.1	15.1	13.1	13.1	12.1	12.1	11.1	10.1
87.5°	9.1	19.1	9.1	6.0	6.0	6.0	6.0	5.0	5.0	4.0	4.0
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)