

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: P401076

Luminaire Tested: **ENT-SA1B-727-U-SL4**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1B-727-U-SL4
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.4
Input Voltage (V): NR
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

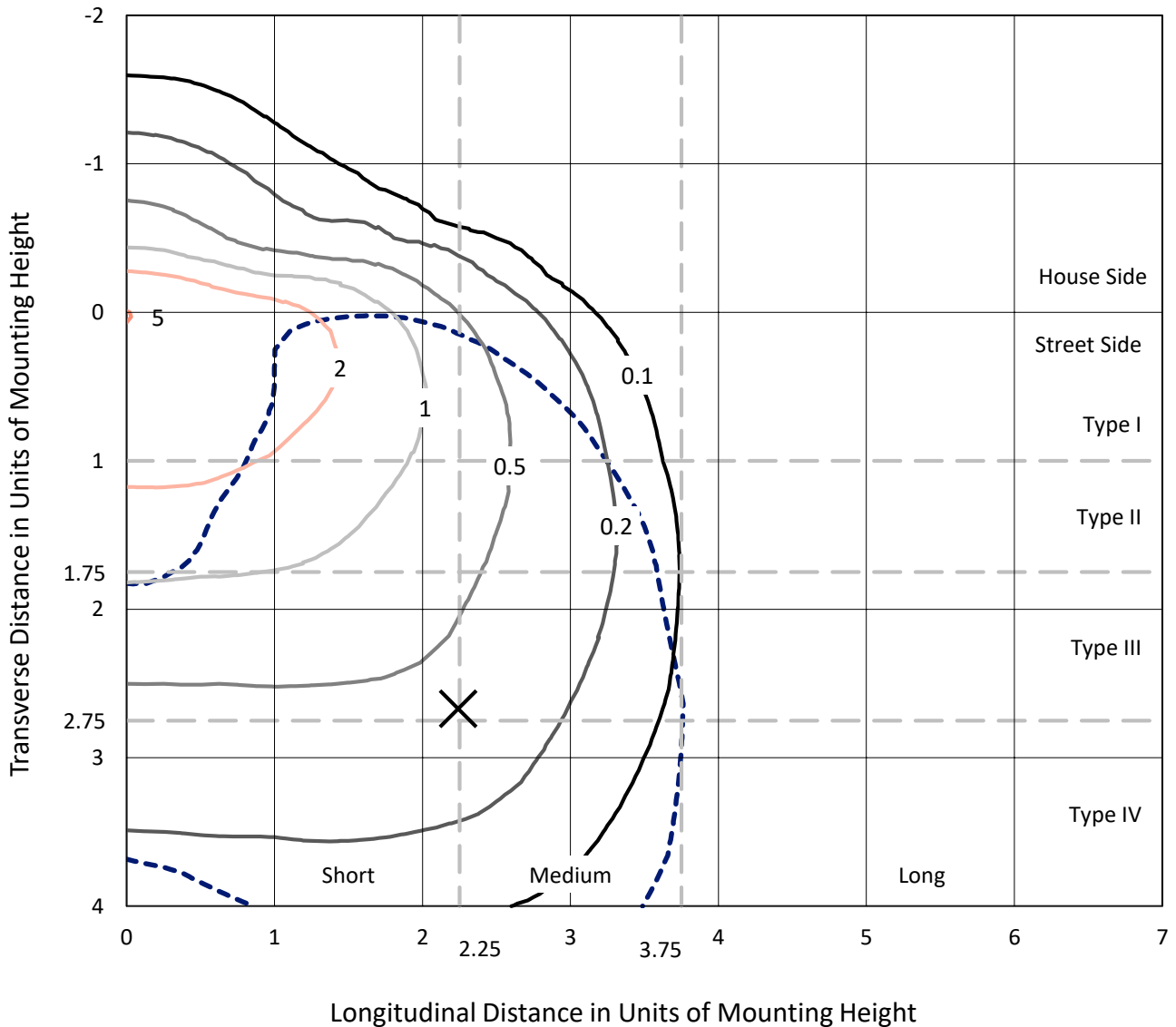


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

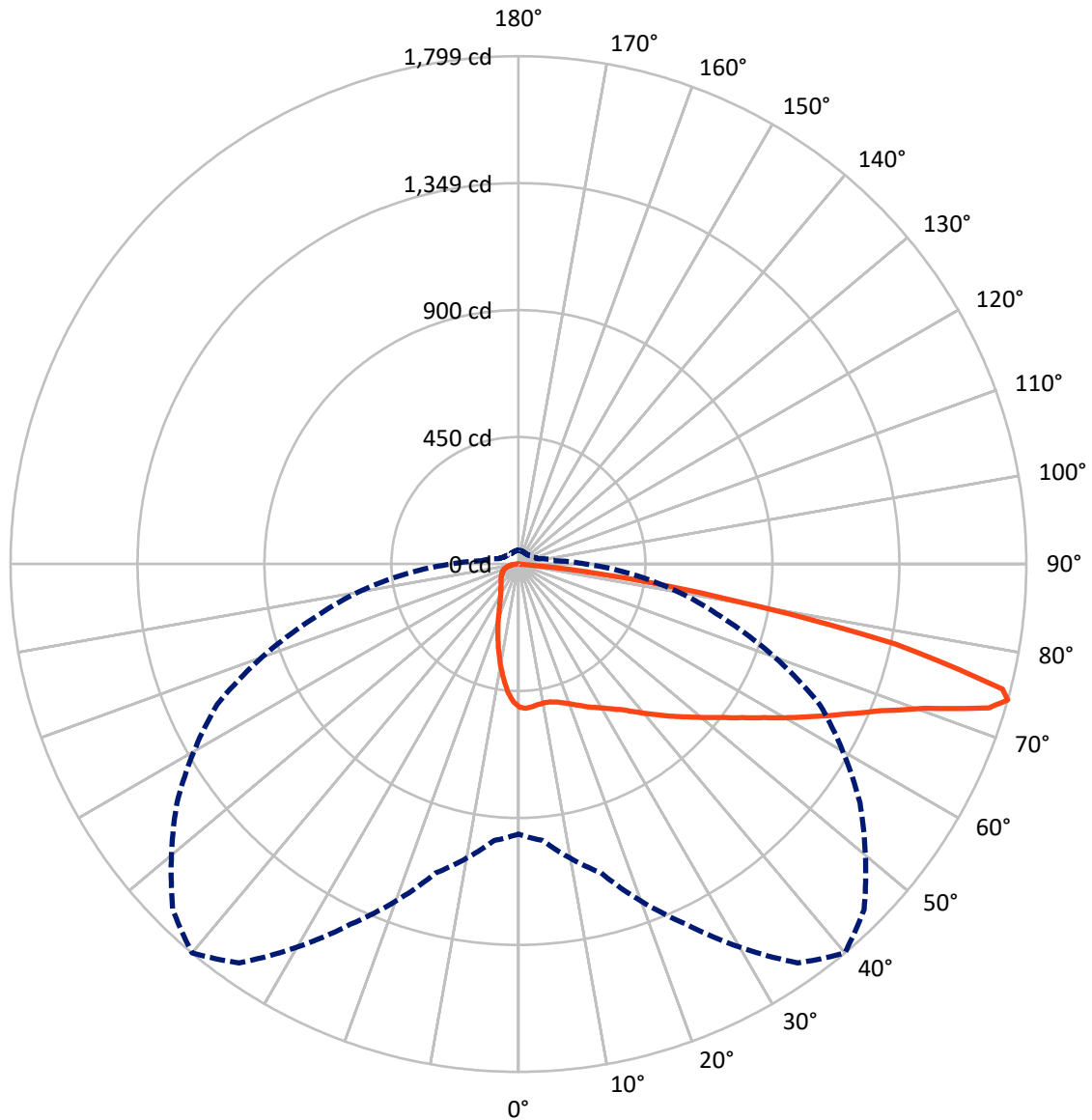


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	423.8	0.0	423.8
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	2294.2	0.0	2294.2
	% Fixture	84.4	0.0	84.4
Total	Lumens	2718.0	0.0	2718.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.6
10°-20°	115.3	4.2
20°-30°	176.9	6.5
30°-40°	255.5	9.4
40°-50°	367.6	13.5
50°-60°	507.5	18.7
60°-70°	639.9	23.5
70°-80°	554.9	20.4
80°-90°	55.6	2.0
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°	2718.0	100.0
0°-180°	2718.0	100.0



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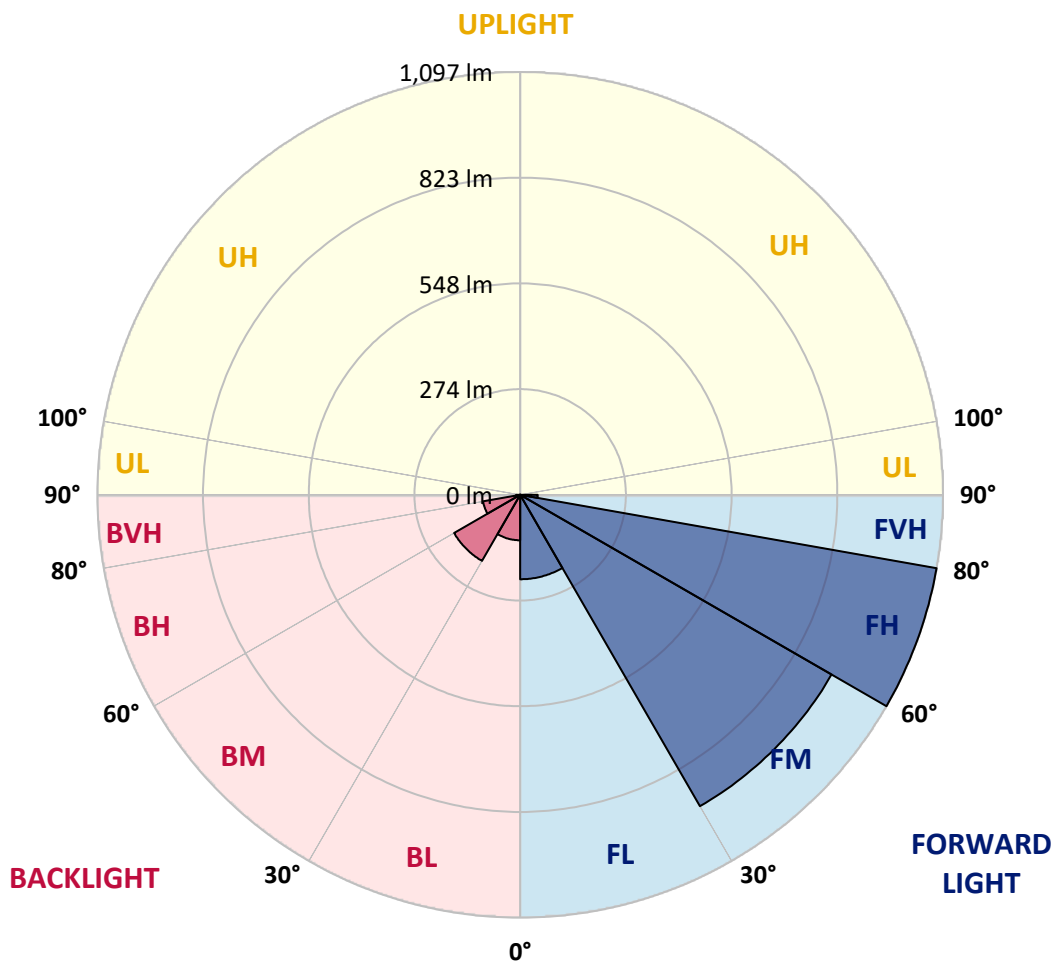
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.1	8.1			
FM	(30°-60°)	932.7	34.3			
FH	(60°-80°)	1097.0	40.4			G1/1800
FVH	(80°-90°)	45.4	1.7			G1/100
BL	(0°-30°)	117.9	4.3	B1/500		
BM	(30°-60°)	197.9	7.3	B0/220		
BH	(60°-80°)	97.8	3.6	B0/110		G0/110
BVH	(80°-90°)	10.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3
2.5°	513.9	513.5	514.7	513.9	512.6	511.8	511.4	509.0	508.2	505.7	502.5
5°	511.8	511.8	511.8	511.0	508.6	507.8	506.9	503.3	500.8	496.8	490.6
7.5°	504.9	506.1	505.7	505.3	503.3	502.5	501.2	496.8	493.5	487.4	479.6
10°	498.4	498.4	498.8	500.4	499.6	500.0	499.6	494.7	490.2	482.5	472.7
12.5°	489.0	490.6	493.1	497.6	499.6	501.2	501.2	497.6	492.7	483.3	471.9
15°	483.3	485.3	491.5	499.6	504.5	507.3	508.2	503.7	497.6	488.2	475.6
17.5°	480.9	483.3	494.7	506.1	514.7	517.1	517.5	512.6	506.1	494.7	480.0
20°	483.3	486.2	501.2	516.7	526.9	528.9	529.8	522.8	514.7	503.7	484.5
22.5°	492.7	496.8	513.5	530.2	540.8	543.6	542.8	533.0	524.9	513.1	490.2
25°	513.1	515.5	530.6	548.5	556.7	559.9	557.9	546.9	536.3	524.5	498.4
27.5°	536.7	540.0	555.8	569.3	574.6	575.4	573.4	562.0	550.1	540.4	511.0
30°	565.2	568.1	581.1	591.3	591.7	592.1	590.9	577.8	568.1	560.3	529.4
32.5°	595.4	595.8	609.2	614.1	610.9	612.1	610.9	596.6	589.7	587.2	553.4
35°	623.1	623.5	637.3	639.0	633.7	634.1	636.5	619.8	619.8	625.5	589.3
37.5°	649.6	650.8	663.0	661.4	659.4	663.0	666.3	652.0	660.2	676.5	632.9
40°	669.5	672.4	688.7	687.9	692.4	696.0	698.9	691.5	704.6	736.4	686.7
42.5°	682.6	688.3	711.5	717.2	725.0	731.5	736.4	736.0	758.8	802.8	743.7
45°	696.0	701.7	732.7	746.6	759.6	769.8	779.2	784.0	820.3	872.9	810.1
47.5°	712.3	717.2	751.9	779.2	795.9	809.7	826.4	837.0	883.1	944.2	871.7
50°	737.2	740.4	771.4	813.8	835.0	854.1	874.9	896.5	950.7	1017.1	925.5
52.5°	769.4	771.4	794.2	848.8	882.7	903.0	934.0	962.5	1019.6	1083.2	969.5
55°	806.1	804.4	821.9	890.8	930.3	960.9	999.2	1028.1	1092.1	1140.6	1004.5
57.5°	842.7	841.5	855.4	931.2	990.7	1026.5	1066.0	1096.6	1158.6	1194.4	1029.8
60°	877.8	873.3	892.9	978.4	1063.6	1104.8	1140.2	1168.3	1221.3	1233.1	1043.2
62.5°	908.7	908.7	937.3	1036.7	1150.8	1187.9	1216.0	1234.8	1281.2	1261.7	1037.9
65°	937.3	940.9	981.7	1101.9	1241.3	1279.2	1303.6	1311.0	1340.7	1262.9	993.1
67.5°	969.5	975.2	1032.6	1178.1	1345.6	1385.9	1407.1	1404.7	1383.1	1244.1	896.9
70°	1000.8	1010.2	1095.8	1276.3	1474.4	1529.0	1552.2	1504.1	1405.1	1140.2	744.9
72.5°	1023.7	1039.6	1147.5	1374.5	1659.0	1742.9	1733.5	1531.4	1302.0	939.7	563.6
74°	956.8	983.3	1133.3	1408.4	1725.4	1799.2	1731.9	1477.2	1177.7	756.7	399.4
75°	879.0	904.7	1061.2	1394.9	1738.0	1771.0	1648.0	1381.9	1056.3	586.4	260.8
77.5°	650.8	670.8	815.0	1099.9	1374.5	1364.8	1227.0	936.5	520.4	176.9	110.0
80°	287.3	302.4	402.2	553.4	744.5	741.7	690.7	430.3	167.9	92.5	67.2
82.5°	86.8	86.4	115.7	161.4	282.8	288.1	244.9	148.3	80.3	38.3	32.6
85°	0.4	0.4	0.4	0.4	1.2	10.6	9.0	28.5	14.7	6.9	11.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3
2.5°	500.4	500.0	498.8	495.9	493.9	487.8	489.8	485.8	485.3	484.5	484.1
5°	487.8	486.2	481.3	475.6	469.0	458.9	455.6	449.5	445.8	444.6	445.4
7.5°	474.7	471.1	461.7	449.5	436.4	421.4	410.4	401.8	395.7	393.7	390.8
10°	466.6	460.5	444.6	424.2	403.0	381.8	363.5	350.9	341.5	334.2	334.2
12.5°	463.7	455.6	432.4	402.6	372.1	341.9	315.4	298.7	282.8	275.1	273.8
15°	465.4	454.0	422.2	383.1	342.3	303.2	270.6	246.5	231.5	222.1	225.4
17.5°	467.0	452.7	411.6	362.3	313.4	268.1	230.2	202.9	184.6	179.7	177.7
20°	469.0	450.3	398.1	339.9	283.6	234.3	194.4	166.7	152.8	146.7	146.7
22.5°	471.9	447.0	384.3	315.0	253.1	201.3	164.2	143.4	132.4	128.8	128.8
25°	476.0	445.0	370.0	290.1	224.1	175.2	144.3	128.0	122.3	119.8	119.4
27.5°	483.7	445.4	356.2	264.9	195.6	153.2	130.0	119.4	114.9	113.7	113.3
30°	495.5	449.5	341.5	238.0	170.3	136.5	120.2	112.9	110.0	109.2	109.2
32.5°	511.8	456.8	329.3	213.9	151.6	123.1	112.1	107.2	105.5	104.7	105.1
35°	537.1	469.5	314.6	191.9	134.1	113.7	105.5	101.9	100.7	100.7	101.1
37.5°	570.1	489.0	300.3	171.6	122.3	105.5	99.4	97.4	96.2	97.0	97.4
40°	611.7	512.2	286.9	153.2	112.5	99.0	94.1	92.5	92.1	92.9	93.7
42.5°	656.5	540.4	274.7	138.1	104.7	93.7	89.7	88.8	88.4	88.8	90.1
45°	708.7	572.6	264.5	126.7	99.0	89.2	85.6	84.8	84.4	85.2	86.0
47.5°	756.7	601.5	256.3	119.0	94.1	86.0	82.3	81.1	81.1	81.1	81.9
50°	795.9	624.3	251.4	113.7	90.1	82.3	79.1	77.8	77.4	77.0	77.4
52.5°	829.7	641.4	249.8	110.4	86.8	79.1	75.8	75.0	74.2	73.4	73.8
55°	852.1	650.0	246.5	107.6	83.9	75.4	72.5	71.7	70.9	69.7	69.7
57.5°	865.1	649.2	239.2	106.0	82.3	72.1	69.3	69.3	68.5	66.4	66.8
60°	866.4	634.9	221.3	103.9	81.1	68.9	65.6	66.4	66.4	64.8	64.8
62.5°	845.6	597.4	186.6	98.6	79.5	66.4	62.8	64.8	65.6	64.0	64.0
65°	781.6	509.0	150.0	90.9	75.4	63.6	59.5	63.6	66.0	64.8	64.4
67.5°	658.9	403.0	123.9	82.3	70.9	59.9	56.2	61.5	64.8	64.8	64.4
70°	528.9	306.0	101.9	72.9	64.0	55.4	52.6	57.1	59.9	60.7	60.7
72.5°	364.3	187.0	82.7	62.8	56.2	50.1	47.7	50.5	52.2	53.8	53.4
74°	235.1	131.2	72.5	57.1	51.3	46.0	44.8	46.0	46.9	48.5	48.9
75°	157.3	107.2	67.6	53.0	48.5	43.2	42.4	43.6	44.4	45.6	45.6
77.5°	90.5	76.6	54.6	44.0	40.3	37.1	36.7	37.1	38.3	39.5	39.1
80°	62.8	58.3	43.2	34.2	31.8	30.2	30.6	31.0	33.0	33.4	33.0
82.5°	37.9	42.0	30.6	25.7	24.0	23.6	24.9	25.7	27.3	27.7	27.3
85°	15.1	20.0	15.1	14.3	15.9	17.5	19.6	20.8	21.6	21.6	21.6
87.5°	0.0	2.9	3.7	5.7	9.0	10.6	13.9	15.1	15.9	15.5	15.1
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)