

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: P400912

Luminaire Tested: **ENV-SA1A-730-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1A-730-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2442 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 20.1
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

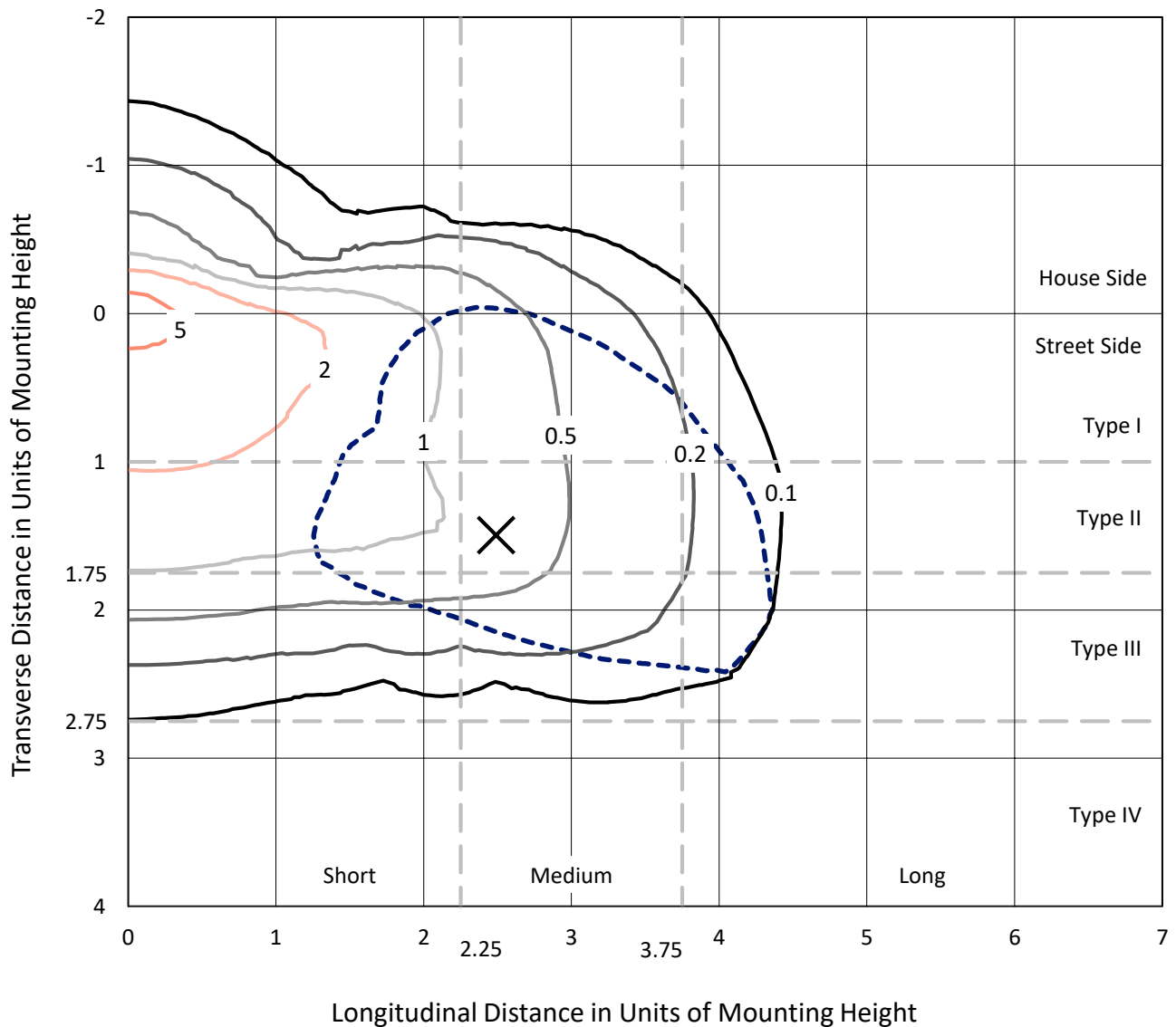


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

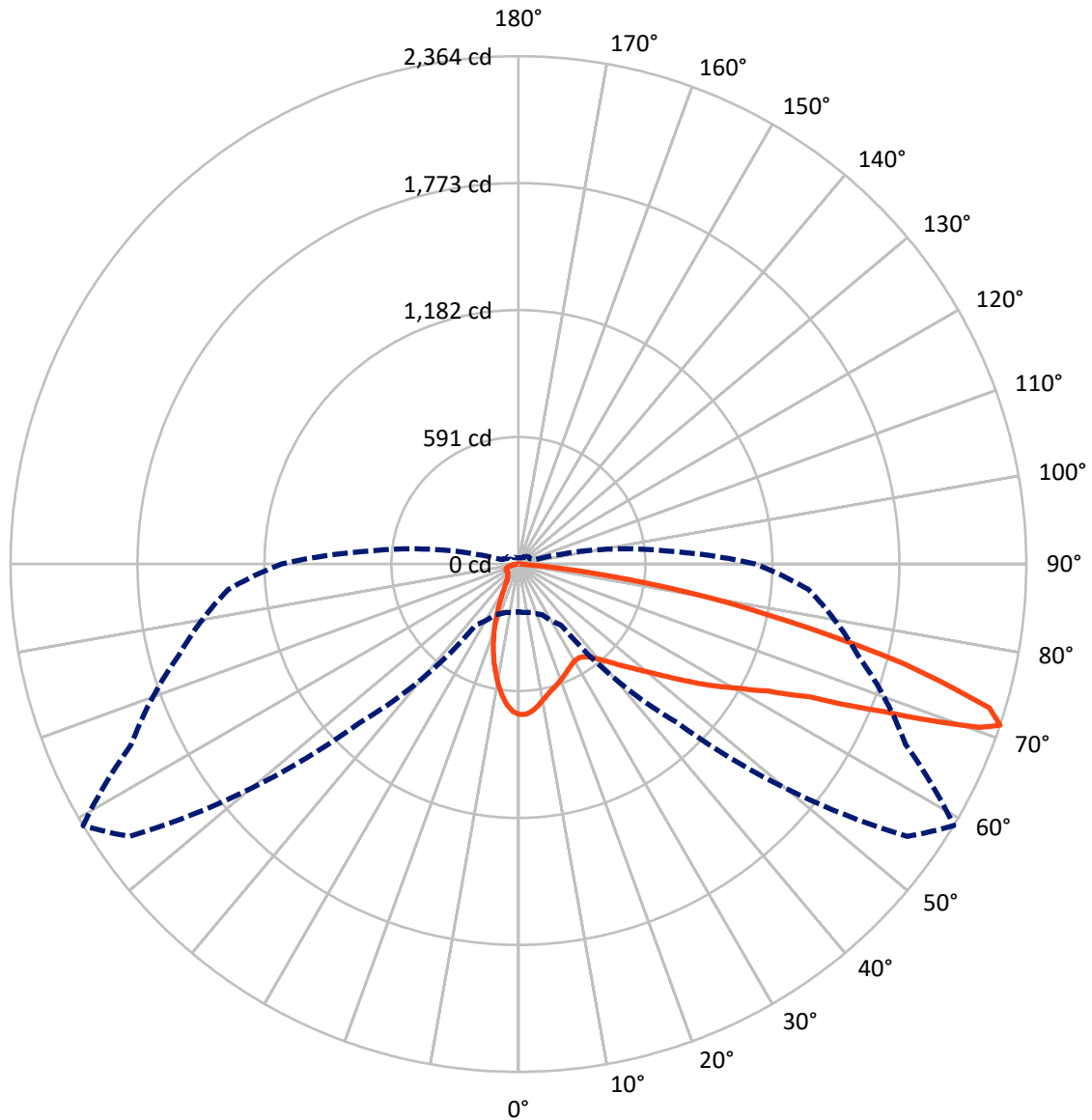


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	414.5	0.0	414.5
	% Fixture	17.0	0.0	17.0
Street Side	Lumens	2027.5	0.0	2027.5
	% Fixture	83.0	0.0	83.0
Total	Lumens	2442.0	0.0	2442.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	2.5
10°-20°	136.0	5.6
20°-30°	172.8	7.1
30°-40°	221.0	9.0
40°-50°	306.6	12.6
50°-60°	454.0	18.6
60°-70°	613.6	25.1
70°-80°	435.1	17.8
80°-90°	42.3	1.7
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°	2442.0	100.0
0°-180°	2442.0	100.0



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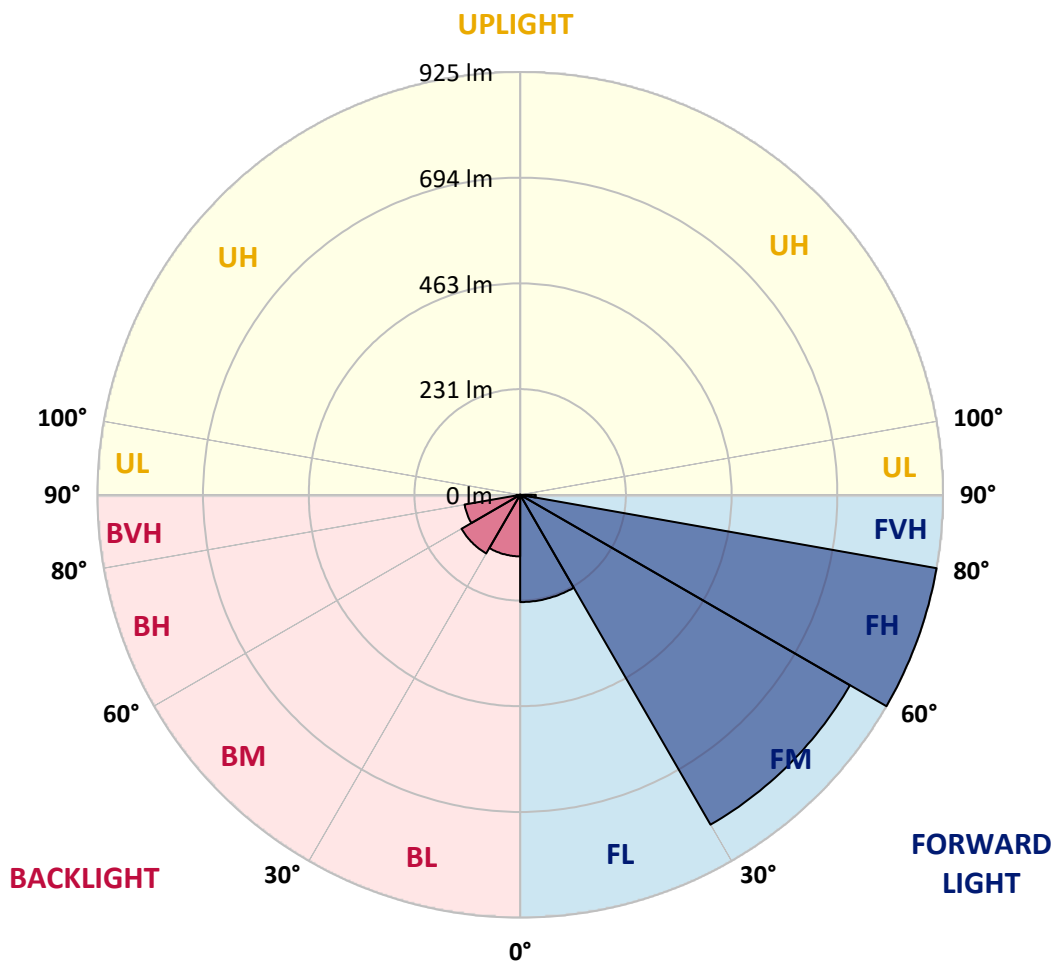
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	234.7	9.6			
FM (30°-60°)	833.3	34.1			
FH (60°-80°)	925.3	37.9			G1/1800
FVH (80°-90°)	34.2	1.4			G1/100
BL (0°-30°)	134.7	5.5	B1/500		
BM (30°-60°)	148.2	6.1	B0/220		
BH (60°-80°)	123.5	5.1	B1/500		G1/500
BVH (80°-90°)	8.1	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6
2.5°	694.6	697.1	698.1	699.9	699.9	700.6	699.9	699.5	701.0	699.5	695.7
5°	663.8	664.9	668.1	671.6	675.1	682.6	684.7	686.1	689.3	690.0	686.1
7.5°	622.1	625.9	630.2	634.8	642.2	652.5	661.3	664.9	670.9	674.4	668.8
10°	586.7	588.8	590.9	599.1	610.7	624.9	634.1	640.8	650.4	655.0	649.7
12.5°	551.3	553.1	557.3	568.3	580.3	597.3	613.9	619.2	630.5	639.7	635.5
15°	524.0	524.0	527.2	539.3	552.0	574.6	594.1	602.2	616.4	629.5	624.2
17.5°	500.0	501.0	503.2	510.9	528.6	552.3	577.1	587.4	605.1	622.1	615.0
20°	486.5	485.8	487.2	491.1	505.3	530.4	560.1	572.2	594.1	617.5	606.1
22.5°	481.9	481.2	480.2	479.8	489.0	510.2	542.1	556.9	584.2	615.0	598.0
25°	485.5	485.5	482.3	476.3	480.5	495.0	525.8	541.7	573.2	613.2	590.6
27.5°	495.0	495.0	490.4	482.6	480.9	487.2	511.7	528.6	564.0	614.3	584.5
30°	508.1	507.8	503.2	496.4	491.1	489.0	504.9	520.5	557.7	618.9	581.7
32.5°	523.0	522.3	520.1	515.5	509.2	500.0	505.6	519.4	556.2	627.0	582.1
35°	540.7	539.6	540.7	538.2	532.2	522.3	518.7	529.7	563.3	642.2	588.1
37.5°	556.2	555.5	560.8	562.3	560.8	547.7	543.1	550.2	579.9	666.3	600.5
40°	569.3	570.0	579.6	589.9	592.0	580.7	577.5	583.5	606.8	695.7	622.8
42.5°	583.8	586.0	600.1	618.5	625.6	618.2	619.9	624.2	640.8	735.6	655.0
45°	598.0	602.6	622.1	645.8	663.8	663.8	669.8	674.1	684.7	785.9	702.0
47.5°	622.8	625.9	647.2	675.8	703.4	712.3	728.9	727.5	735.6	841.1	757.2
50°	655.0	660.3	681.9	711.6	746.6	771.7	790.8	793.7	796.8	897.7	822.7
52.5°	699.5	705.9	723.6	751.2	792.6	833.6	874.0	872.2	868.0	959.3	897.7
55°	744.5	751.2	767.8	790.1	839.0	901.9	967.8	965.3	945.8	1022.2	967.0
57.5°	790.1	795.8	813.1	832.6	890.3	982.6	1066.8	1068.6	1028.6	1092.3	1035.7
60°	809.2	817.7	860.5	898.0	970.2	1072.1	1168.0	1172.6	1114.6	1163.1	1111.4
62.5°	722.9	733.2	803.9	905.1	1079.9	1244.8	1299.7	1302.5	1218.3	1241.3	1194.2
65°	535.0	534.7	607.9	759.3	1058.0	1476.6	1534.3	1489.7	1347.1	1344.9	1303.5
67.5°	306.4	315.6	339.0	452.9	806.0	1519.4	1951.8	1835.4	1575.3	1506.3	1449.3
70°	247.0	244.9	251.9	282.4	439.5	1249.4	2223.9	2277.0	1899.4	1637.9	1416.4
71°	222.6	225.8	232.8	260.4	346.8	1042.4	2210.4	2363.7	1987.9	1634.4	1353.8
72.5°	191.4	192.1	208.4	241.0	284.8	735.3	2043.8	2292.2	2080.6	1588.0	1261.8
75°	130.2	132.0	157.5	193.9	260.1	349.2	1462.4	1854.1	1893.8	1484.0	1042.1
77.5°	74.7	76.1	94.5	141.9	221.5	246.3	897.7	1281.3	1361.6	1085.2	558.7
80°	38.6	40.3	52.4	89.5	169.1	199.2	514.8	805.7	774.6	375.1	129.5
82.5°	10.3	11.7	15.2	32.2	81.7	129.9	228.2	333.3	238.1	77.8	47.1
85°	0.0	0.0	0.0	0.4	0.7	18.0	48.1	59.8	33.3	15.2	12.7
87.5°	0.0	0.0	0.0	0.0	0.4	0.7	0.7	0.7	0.7	1.1	1.4
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°	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6
2.5°	694.9	694.9	692.8	689.6	686.1	678.0	679.4	673.0	673.7	673.0	673.0
5°	682.9	680.8	675.5	665.6	654.6	640.1	638.0	626.3	619.6	617.5	619.9
7.5°	666.3	660.3	646.8	629.5	608.6	589.9	572.5	556.9	545.3	540.3	538.2
10°	644.3	636.9	615.0	584.5	555.9	526.5	499.3	481.6	458.2	451.1	449.0
12.5°	626.3	613.6	580.7	538.2	493.6	454.7	417.9	380.7	358.4	342.5	340.0
15°	610.7	592.7	545.6	490.8	435.2	381.4	331.5	281.7	250.2	236.7	227.2
17.5°	596.9	573.6	510.6	439.5	370.8	299.7	238.8	191.1	171.3	161.0	161.4
20°	582.8	553.1	474.1	388.2	307.1	228.2	168.8	146.5	136.6	134.5	133.4
22.5°	569.3	529.7	435.6	337.6	242.0	167.7	135.9	124.9	122.4	122.4	122.4
25°	554.1	506.0	396.7	285.9	183.3	132.3	116.8	112.9	113.6	115.0	115.4
27.5°	541.7	485.5	358.1	226.1	142.2	112.5	104.4	103.7	106.5	109.7	109.7
30°	530.8	466.7	316.3	176.6	113.2	98.7	95.9	97.0	99.8	102.6	103.7
32.5°	523.3	449.7	278.8	137.3	96.6	89.2	88.5	89.9	92.7	94.1	95.2
35°	520.1	437.3	238.5	110.8	86.0	82.1	81.7	82.8	84.2	84.6	84.2
37.5°	523.7	428.9	197.1	93.8	79.3	77.1	76.8	76.8	76.8	77.1	76.8
40°	533.9	425.7	159.9	82.8	75.0	73.2	72.2	71.1	70.4	70.4	70.1
42.5°	555.5	430.6	128.4	76.4	71.8	69.7	67.6	66.2	65.1	64.8	64.8
45°	590.2	444.4	106.9	72.2	69.0	65.8	63.3	61.9	60.9	61.2	60.9
47.5°	638.0	467.4	94.5	69.4	66.2	61.9	59.4	58.0	57.7	58.7	59.1
50°	692.1	500.0	87.0	67.2	64.0	58.7	55.9	54.8	55.2	57.3	57.7
52.5°	755.8	542.1	83.9	65.8	62.3	55.9	53.4	52.4	53.1	55.6	55.9
55°	824.4	590.2	88.5	66.5	60.5	54.1	51.3	49.9	51.0	53.1	53.4
57.5°	894.2	649.7	104.0	66.9	58.4	52.7	49.2	47.1	47.8	49.5	49.9
60°	964.6	708.7	130.9	67.2	57.7	51.3	47.4	44.2	44.6	45.6	46.0
62.5°	1047.4	783.8	166.3	68.6	58.4	50.2	44.2	40.7	40.7	41.4	41.4
65°	1173.0	895.6	189.7	67.9	60.2	49.2	41.0	37.5	37.2	37.5	37.5
67.5°	1263.2	910.4	132.3	64.0	61.2	49.5	39.3	34.7	34.0	33.6	33.6
70°	1167.7	766.1	87.4	60.5	59.4	50.2	37.9	32.9	31.5	30.4	30.1
71°	1101.5	690.3	81.0	59.1	58.0	49.5	37.2	31.8	30.4	29.7	29.4
72.5°	1003.5	616.0	74.7	57.0	54.8	48.1	36.1	30.8	29.0	28.0	27.6
75°	793.0	472.4	65.5	52.4	47.4	39.6	33.3	28.7	26.9	25.5	25.1
77.5°	358.4	187.9	50.2	45.3	38.6	31.5	29.0	26.5	24.4	23.4	23.0
80°	100.1	71.5	36.8	35.7	29.0	24.4	23.4	22.6	21.9	20.5	20.5
82.5°	46.4	41.8	26.2	25.1	19.8	17.3	18.4	18.8	18.8	17.3	17.0
85°	12.7	13.8	12.0	13.4	12.7	11.7	13.4	14.5	15.2	13.8	12.7
87.5°	1.1	2.5	3.2	5.3	6.4	6.7	8.5	10.3	10.6	8.5	8.8
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)