

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: P401073

Luminaire Tested: **ENV-SA1B-727-U-SL3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1B-727-U-SL3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2402 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B0 - 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

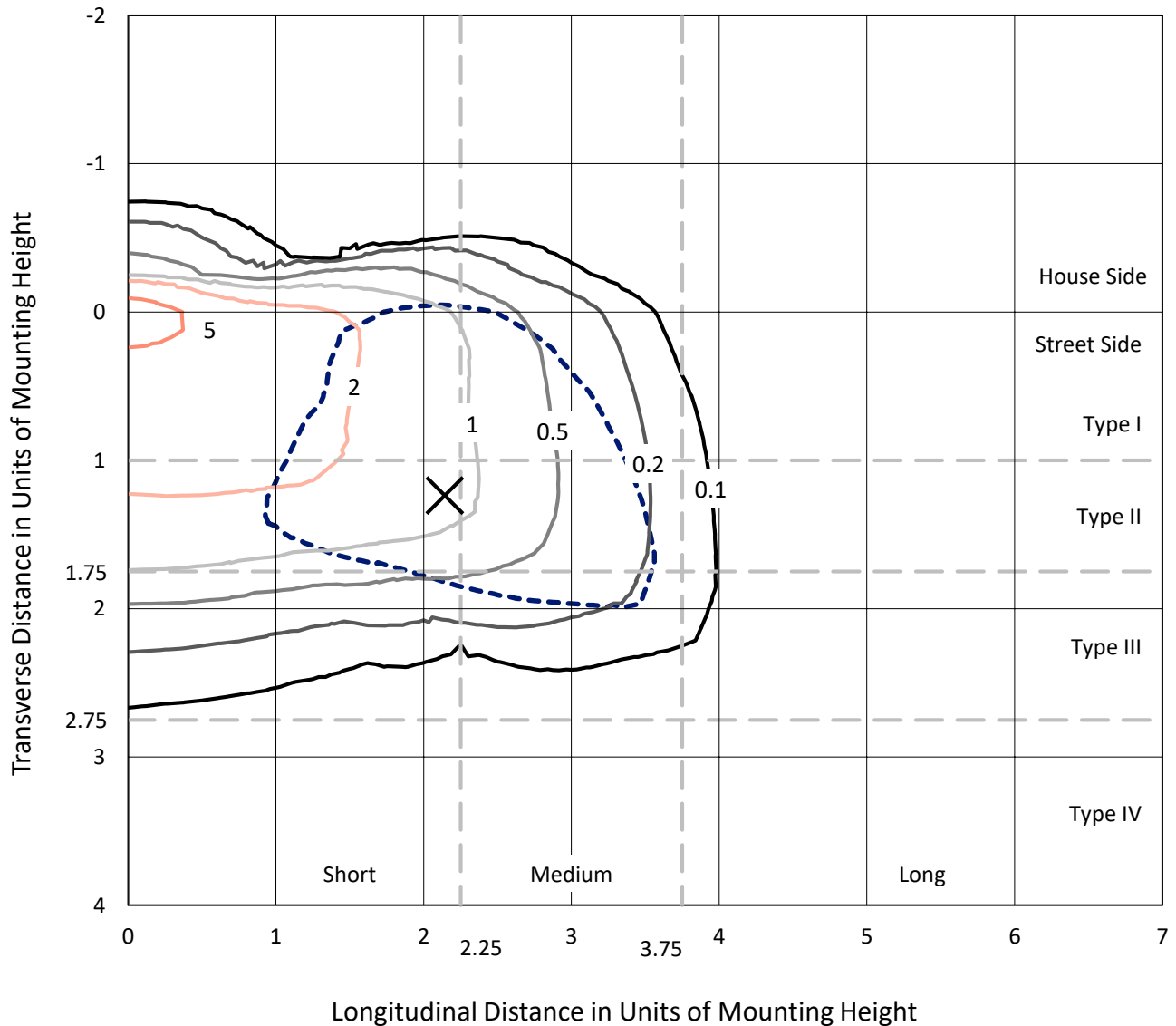


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

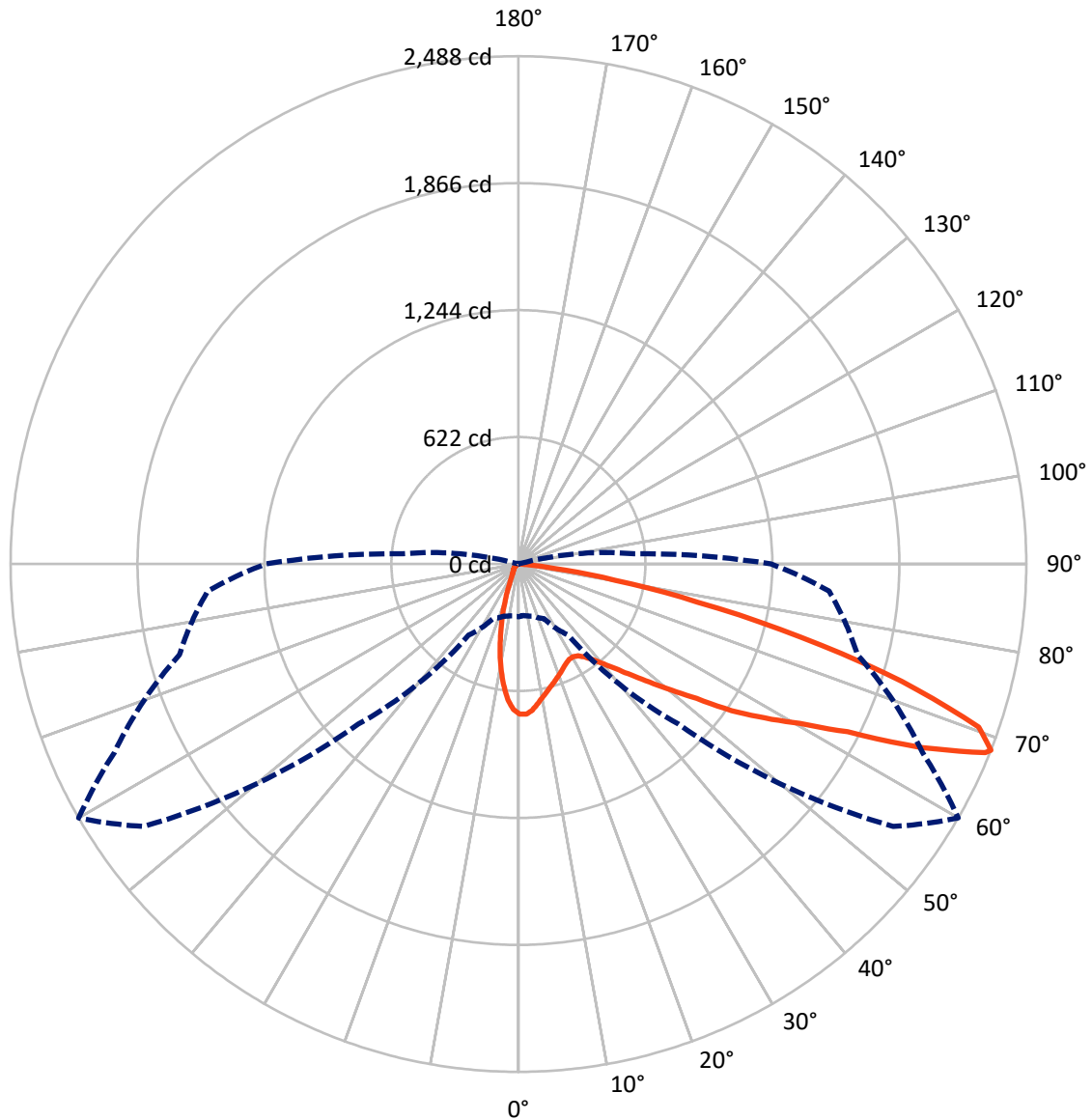


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	268.5	0.0	268.5
	% Fixture	11.2	0.0	11.2
Street Side	Lumens	2133.4	0.0	2133.4
	% Fixture	88.8	0.0	88.8
Total	Lumens	2402.0	0.0	2402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	2.5
10°-20°	121.7	5.1
20°-30°	160.2	6.7
30°-40°	221.1	9.2
40°-50°	335.2	14.0
50°-60°	540.8	22.5
60°-70°	642.4	26.7
70°-80°	302.8	12.6
80°-90°	18.1	0.8
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°	2402.0	100.0
0°-180°	2402.0	100.0



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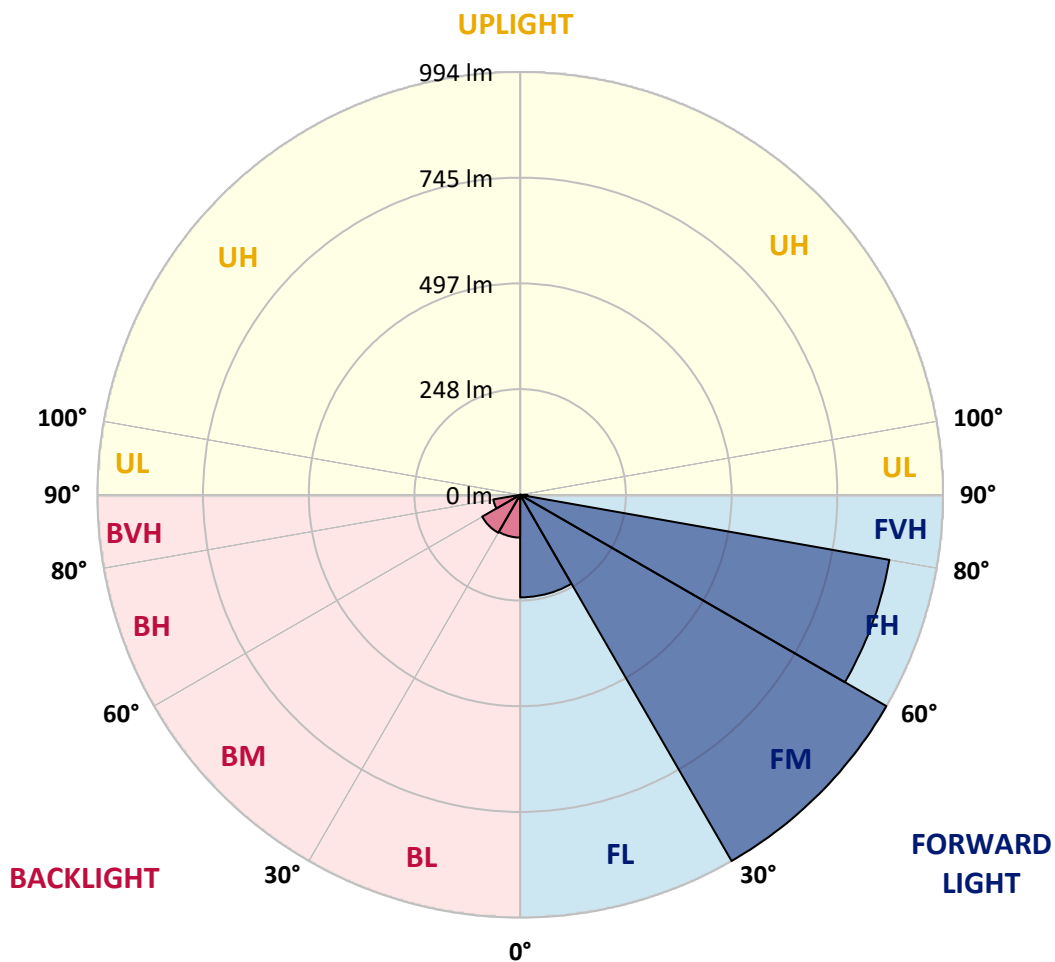
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.1	10.0			
FM (30°-60°)	993.8	41.4			
FH (60°-80°)	881.2	36.7			G1/1800
FVH (80°-90°)	17.3	0.7			G1/100
BL (0°-30°)	100.5	4.2	B0/110		
BM (30°-60°)	103.2	4.3	B0/220		
BH (60°-80°)	64.1	2.7	B0/110		G0/110
BVH (80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	735.2	735.2	735.2	735.2	735.2	735.2	735.2	735.2	735.2	735.2	735.2
2.5°	728.7	727.1	731.6	732.8	734.0	736.4	736.0	736.4	736.9	736.0	731.1
5°	679.0	681.8	685.9	691.2	696.5	708.7	713.6	718.5	721.8	724.2	719.7
7.5°	630.1	635.8	639.0	648.8	657.0	669.6	680.2	688.8	696.9	705.9	701.4
10°	591.0	593.0	595.8	604.8	617.0	636.2	650.0	660.6	670.4	685.5	681.8
12.5°	552.6	553.9	559.6	569.4	582.0	605.6	624.0	636.2	647.2	665.9	666.3
15°	524.5	524.9	528.6	537.6	552.2	577.5	601.1	614.6	630.1	652.9	654.1
17.5°	506.2	505.8	506.6	512.3	526.2	550.2	578.7	594.6	613.0	642.3	643.5
20°	500.5	499.7	498.0	496.8	505.4	526.2	558.3	575.9	597.5	634.6	635.0
22.5°	505.4	503.7	500.1	493.1	495.6	509.0	535.9	557.1	583.6	630.5	627.6
25°	517.2	517.2	512.3	501.3	495.6	498.4	520.0	540.4	569.8	628.4	622.3
27.5°	536.7	535.9	529.4	518.0	507.4	499.7	510.3	529.4	559.6	630.9	619.9
30°	560.4	557.9	551.0	542.9	529.8	513.1	512.3	526.6	554.7	638.6	621.5
32.5°	582.8	582.8	579.9	572.2	559.6	537.6	524.9	536.3	560.8	651.3	626.8
35°	610.5	610.1	610.9	608.1	597.1	573.8	553.5	559.2	579.5	672.5	639.5
37.5°	632.5	632.9	639.9	644.7	639.9	615.4	594.2	594.2	611.3	704.3	661.1
40°	654.1	654.9	668.0	682.2	683.5	663.9	643.5	643.1	652.9	743.4	694.5
42.5°	673.7	676.9	695.7	720.1	734.4	721.4	706.3	701.4	706.3	802.5	748.7
45°	694.5	701.0	727.1	762.5	785.8	786.2	780.5	774.8	777.2	868.9	821.2
47.5°	721.4	728.7	761.3	804.9	848.9	860.3	865.6	863.6	857.1	952.9	915.0
50°	765.0	771.9	802.5	851.4	911.7	952.9	967.1	969.6	961.0	1045.8	1021.3
52.5°	839.2	843.2	871.8	910.5	978.1	1055.2	1092.6	1093.1	1073.9	1154.6	1136.3
55°	918.6	929.2	962.6	1007.5	1077.2	1163.6	1257.3	1267.5	1208.4	1250.0	1220.2
57.5°	919.8	930.0	985.5	1071.5	1217.4	1331.9	1415.4	1422.8	1357.2	1326.6	1299.3
60°	822.8	828.1	905.2	1031.1	1267.5	1558.9	1595.6	1584.6	1461.5	1405.6	1398.3
62.5°	580.8	583.2	674.5	840.4	1156.6	1667.3	1869.9	1810.8	1609.8	1522.2	1546.7
65°	365.6	364.4	402.3	534.7	860.3	1560.5	2208.9	2165.7	1882.5	1668.1	1662.4
67.5°	269.8	263.3	273.5	314.6	491.5	1225.1	2271.3	2466.1	2142.1	1728.8	1562.2
68°	258.8	253.1	263.7	295.5	425.1	1109.0	2241.1	2487.7	2183.3	1719.1	1527.9
70°	219.7	214.4	223.3	247.4	295.9	719.7	1977.4	2391.9	2220.8	1635.9	1346.6
72.5°	156.1	158.9	182.6	212.3	250.6	369.2	1456.2	1964.4	1910.2	1455.0	1024.6
75°	92.5	97.8	128.8	171.2	230.3	243.7	939.4	1428.1	1401.6	1007.5	555.1
77.5°	32.6	34.6	64.0	114.1	189.9	193.2	523.3	897.8	835.1	411.6	163.8
80°	11.8	11.8	23.6	63.6	122.7	147.5	278.0	479.3	329.7	106.8	45.2
82.5°	2.0	2.0	5.3	21.6	54.2	78.7	129.2	170.4	97.8	23.6	22.4
85°	0.0	0.0	0.0	0.0	0.8	0.8	37.9	38.3	17.9	3.3	9.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.8	0.8	1.2
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°	735.2	735.2	735.2	735.2	735.2	735.2	735.2	735.2	735.2	735.2	735.2
2.5°	729.1	728.3	723.8	715.7	708.7	697.3	695.3	684.3	680.2	676.9	680.2
5°	716.5	712.0	696.9	678.6	653.7	624.4	607.3	583.6	578.7	565.7	573.4
7.5°	695.7	685.5	657.4	617.9	572.2	527.4	493.1	460.1	432.0	422.2	419.4
10°	673.7	659.4	612.1	551.0	485.0	416.1	365.2	317.5	291.0	266.1	265.3
12.5°	652.9	631.3	562.8	477.7	385.5	303.6	237.6	187.5	156.1	139.0	143.5
15°	636.2	607.3	513.1	404.3	287.7	195.6	134.5	102.3	91.3	86.0	86.8
17.5°	619.9	581.6	465.0	327.7	205.0	120.6	87.2	76.2	73.0	71.7	70.9
20°	605.2	556.7	414.5	258.4	135.3	83.5	71.7	68.1	66.8	66.0	66.0
22.5°	590.5	530.6	363.9	191.5	92.5	68.5	64.4	62.8	61.9	60.7	60.7
25°	577.1	505.4	313.4	134.1	70.9	61.1	58.3	56.6	55.0	53.8	53.8
27.5°	566.9	486.2	266.5	95.0	59.5	55.0	52.2	49.3	47.3	45.6	45.6
30°	560.4	467.5	221.3	71.7	53.0	48.9	45.2	41.6	38.3	36.3	35.9
32.5°	556.7	452.0	179.3	58.7	47.3	42.8	38.3	34.2	30.6	28.1	28.1
35°	558.3	439.7	137.3	49.7	42.8	37.5	32.6	27.7	24.5	22.4	22.0
37.5°	568.9	432.8	102.3	44.0	38.3	32.6	27.7	22.8	19.6	17.9	17.5
40°	588.9	434.5	77.8	39.9	35.0	28.5	22.8	18.7	15.9	14.3	14.3
42.5°	629.3	446.3	61.5	36.7	31.4	24.5	19.2	15.5	13.0	11.8	11.4
45°	682.7	468.7	50.5	33.8	27.7	20.8	16.3	13.0	10.6	9.4	9.4
47.5°	763.3	504.6	43.6	31.0	24.0	17.5	13.4	10.6	8.2	7.3	6.9
50°	856.7	554.7	38.3	27.7	21.2	14.7	11.4	8.2	6.5	5.3	5.3
52.5°	952.0	610.5	34.6	24.9	18.3	12.6	9.0	6.1	4.5	3.7	3.7
55°	1039.7	657.4	31.0	22.4	15.5	10.6	7.3	4.9	3.3	2.4	2.4
57.5°	1124.4	700.2	26.9	19.6	12.6	8.6	5.7	3.7	2.4	1.6	1.6
60°	1230.8	755.6	23.2	16.7	10.2	6.9	4.5	2.9	1.6	1.2	0.8
62.5°	1359.2	796.0	19.6	13.4	8.2	5.3	3.3	2.0	1.2	0.4	0.4
65°	1406.5	742.6	16.3	11.0	6.5	4.1	2.4	1.6	0.8	0.4	0.4
67.5°	1274.4	598.3	13.0	8.6	4.9	2.9	2.0	1.2	0.8	0.4	0.4
68°	1237.7	568.9	12.6	8.2	4.5	2.9	1.6	1.2	0.4	0.4	0.0
70°	1045.0	456.9	10.2	6.1	3.7	2.4	1.6	0.8	0.4	0.4	0.0
72.5°	774.8	315.0	7.3	4.1	2.4	1.6	1.2	0.8	0.4	0.4	0.0
75°	408.8	122.7	5.7	3.3	2.0	1.6	1.2	1.2	0.8	0.4	0.4
77.5°	117.4	38.7	4.5	2.4	2.0	2.0	2.0	1.6	1.6	1.2	0.8
80°	34.2	12.6	2.9	1.6	2.0	2.0	2.4	2.0	2.0	1.6	1.6
82.5°	18.3	4.9	1.6	1.2	1.2	1.6	2.0	1.6	1.2	0.8	0.4
85°	7.7	1.6	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4
87.5°	0.4	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)