

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: P401071

Luminaire Tested: **ENV-SA1B-727-U-SL2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1B-727-U-SL2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2317 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-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

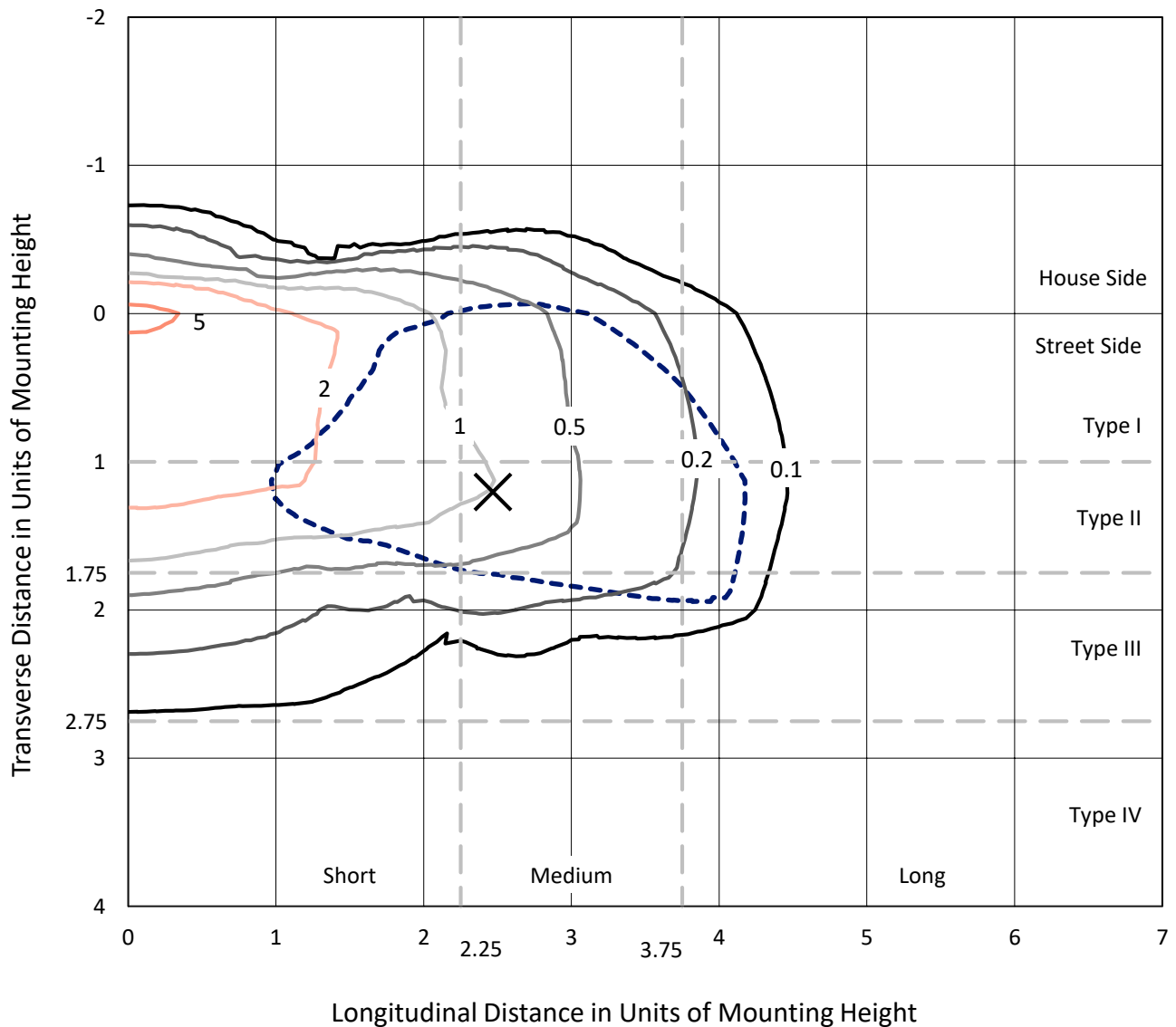


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

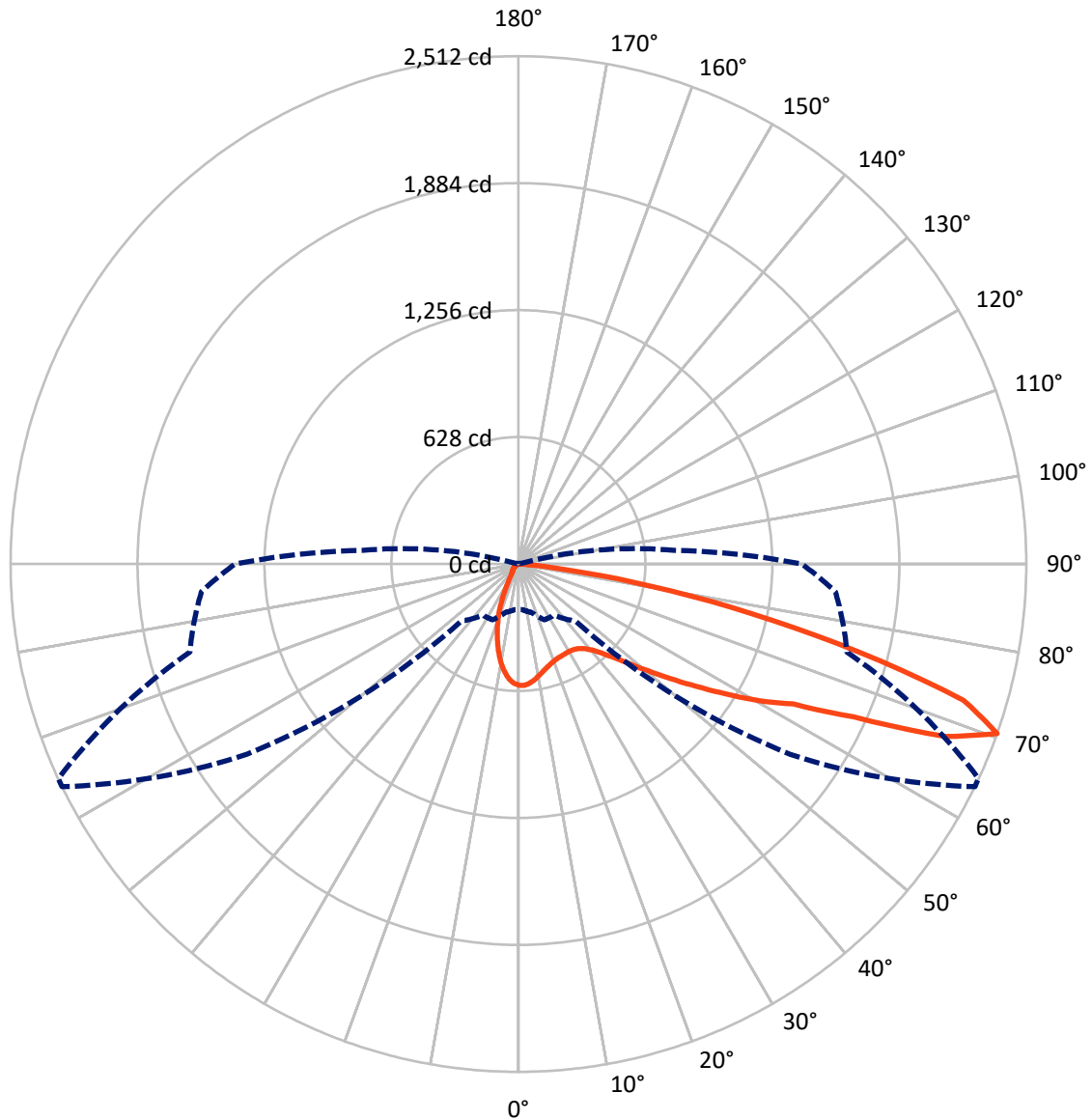


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	297.6	0.0	297.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2019.3	0.0	2019.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	2317.0	0.0	2317.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	2.2
10°-20°	112.2	4.8
20°-30°	154.5	6.7
30°-40°	212.7	9.2
40°-50°	317.0	13.7
50°-60°	500.8	21.6
60°-70°	567.5	24.5
70°-80°	372.6	16.1
80°-90°	29.2	1.3
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°	2317.0	100.0
0°-180°	2317.0	100.0



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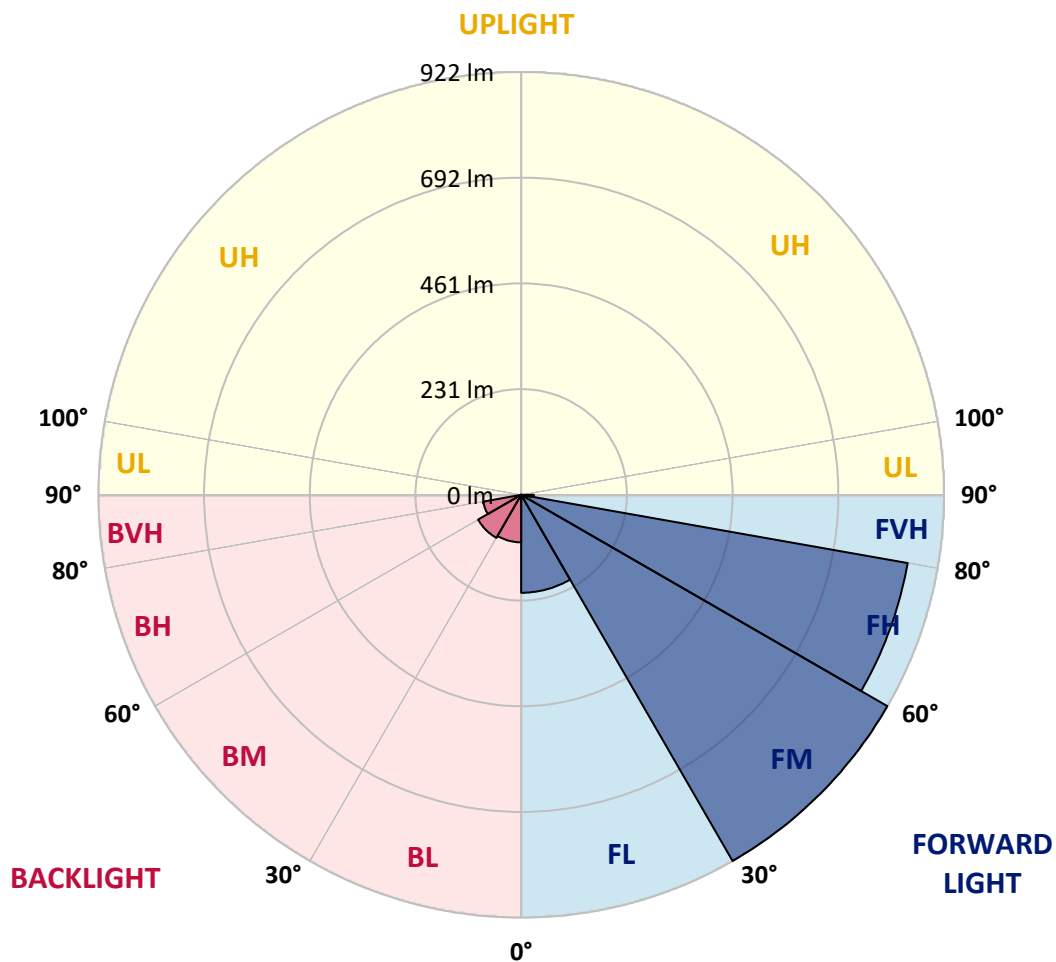
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.6	9.2			
FM	(30°-60°)	922.1	39.8			
FH	(60°-80°)	856.0	36.9			G1/1800
FVH	(80°-90°)	27.6	1.2			G1/100
BL	(0°-30°)	103.6	4.5	B0/110		
BM	(30°-60°)	108.4	4.7	B0/220		
BH	(60°-80°)	84.0	3.6	B0/110		G0/110
BVH	(80°-90°)	1.6	0.1			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	599.8	599.8	599.8	599.8	599.8	599.8	599.8	599.8	599.8	599.8	599.8
2.5°	583.1	583.1	585.9	588.8	590.4	594.9	598.2	600.6	600.6	602.2	599.4
5°	544.4	544.4	546.8	553.7	561.1	570.4	581.0	591.6	593.7	601.4	601.0
7.5°	508.5	511.8	515.8	522.8	530.5	544.4	559.0	577.4	579.4	598.2	602.2
10°	483.7	485.7	488.1	495.9	507.3	523.2	539.1	560.7	564.3	592.4	602.2
12.5°	463.7	464.1	467.8	476.3	487.3	502.8	520.7	544.4	548.9	582.3	600.6
15°	449.4	449.0	453.1	461.2	471.8	487.7	505.3	530.1	535.0	573.7	600.2
17.5°	440.9	441.3	444.5	450.7	460.8	475.9	493.8	518.3	523.2	566.8	602.2
20°	440.9	440.9	442.9	445.8	453.5	467.0	484.5	509.7	514.6	562.3	605.1
22.5°	449.4	448.6	450.2	447.8	451.5	460.8	478.8	504.0	509.3	560.3	609.6
25°	464.9	463.3	464.5	459.2	455.1	459.2	475.1	501.6	507.3	560.7	613.6
27.5°	486.5	486.5	484.1	476.7	466.5	462.1	474.7	500.0	505.7	560.7	616.5
30°	516.7	515.4	511.8	504.4	488.5	473.5	478.8	500.0	505.7	561.1	617.3
32.5°	546.8	547.6	549.7	542.3	520.7	493.0	488.5	503.6	508.5	560.7	616.1
35°	577.4	577.8	586.7	587.6	559.9	524.4	505.3	513.4	516.7	564.7	616.9
37.5°	604.3	606.3	623.8	632.4	609.6	564.7	531.7	531.7	533.4	575.7	621.8
40°	634.4	639.7	660.9	680.1	671.1	616.5	570.4	558.6	559.4	595.7	632.8
42.5°	669.5	676.0	703.7	731.4	731.0	680.1	619.3	601.4	602.2	630.3	655.2
45°	713.9	718.4	753.4	788.0	795.4	750.1	680.9	657.2	658.1	682.9	698.8
47.5°	768.1	773.4	807.2	848.7	867.5	834.5	760.7	735.1	732.6	750.1	761.5
50°	839.0	849.2	869.1	909.0	954.3	932.3	854.4	828.8	825.5	839.4	843.0
52.5°	906.6	916.0	924.1	960.8	1048.4	1053.7	969.4	941.2	938.0	941.2	945.7
55°	916.8	922.1	928.2	977.9	1124.6	1208.1	1100.1	1066.7	1057.4	1051.3	1066.3
57.5°	835.7	832.4	852.8	920.5	1137.2	1378.9	1277.0	1212.2	1203.2	1169.4	1154.3
60°	661.7	657.2	676.4	768.9	1066.3	1463.6	1522.3	1373.1	1351.1	1237.9	1223.2
62.5°	464.9	459.6	484.5	539.1	827.1	1446.9	1798.9	1525.5	1481.9	1298.6	1278.6
65°	358.2	355.7	369.2	381.4	504.8	1253.4	1951.3	1823.0	1732.9	1364.6	1338.9
67.5°	280.7	284.0	300.7	336.2	326.0	781.1	1937.1	2276.9	2186.8	1486.0	1469.7
70°	225.7	226.5	247.3	304.0	307.6	397.7	1640.0	2511.6	2510.4	1682.0	1573.6
72.5°	136.5	140.2	174.0	262.8	310.5	304.4	1102.6	2301.3	2333.1	1727.6	1419.2
75°	65.6	69.3	90.0	176.4	308.4	296.2	596.5	1742.3	1783.1	1549.2	1150.7
77.5°	24.4	27.7	41.6	86.4	228.6	271.4	313.7	1174.7	1206.9	1134.0	779.5
80°	7.7	9.0	16.3	39.5	116.1	224.1	202.1	662.5	684.1	496.3	262.0
82.5°	0.8	1.2	4.5	13.4	44.8	114.1	118.6	249.4	260.4	97.0	53.0
85°	0.0	0.0	0.0	0.0	0.8	0.8	29.3	47.7	39.1	9.4	15.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	1.2	1.2	1.6
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°	599.8	599.8	599.8	599.8	599.8	599.8	599.8	599.8	599.8	599.8	599.8
2.5°	599.0	599.0	596.1	591.6	585.9	577.8	575.7	569.2	569.2	563.9	563.1
5°	599.8	597.3	588.0	574.1	555.0	534.2	521.1	506.9	494.7	486.9	487.7
7.5°	599.8	594.5	575.7	545.2	509.3	473.5	446.2	414.4	399.7	389.9	394.4
10°	598.2	589.2	556.6	510.1	453.5	403.8	359.0	322.3	297.0	286.4	277.5
12.5°	594.5	581.4	532.6	466.5	394.0	328.8	266.9	218.8	185.4	168.7	166.7
15°	591.2	573.3	504.4	418.9	326.8	241.6	172.4	126.3	97.8	91.3	92.1
17.5°	590.4	565.6	477.5	368.3	261.2	160.9	99.4	80.3	76.2	74.6	74.2
20°	590.8	558.6	448.2	318.2	185.0	100.2	75.4	70.9	69.3	68.5	68.0
22.5°	592.4	550.9	419.3	265.7	126.3	73.3	67.2	64.4	62.3	61.1	60.7
25°	592.4	542.3	387.1	209.8	82.7	64.4	60.3	56.6	53.8	52.2	52.2
27.5°	591.2	532.6	353.7	159.3	65.6	57.5	53.0	48.1	44.4	42.4	42.4
30°	587.6	520.7	321.5	111.2	57.5	51.3	45.6	39.5	35.0	33.0	32.2
32.5°	582.3	508.1	284.4	78.2	51.7	44.8	38.3	31.8	27.7	25.3	25.3
35°	576.6	495.5	244.5	59.9	46.9	39.5	32.2	25.7	22.0	20.4	20.0
37.5°	573.7	482.0	205.4	51.7	42.0	33.8	26.1	20.8	17.9	16.7	16.3
40°	575.7	471.8	167.1	46.5	37.5	28.5	21.6	17.5	15.1	13.4	13.4
42.5°	588.0	466.1	130.8	42.4	33.4	24.0	17.9	14.3	11.8	10.6	10.6
45°	612.8	470.2	99.4	38.7	28.5	20.0	15.1	11.4	9.0	7.7	7.7
47.5°	654.4	486.5	75.4	35.4	24.4	16.3	12.2	9.0	6.9	6.1	5.7
50°	715.1	518.7	59.1	32.2	20.4	13.9	10.2	6.9	5.3	4.5	4.5
52.5°	802.7	574.5	50.5	28.5	16.7	11.4	8.1	5.3	4.1	3.3	3.3
55°	910.3	645.4	45.6	25.3	13.4	9.4	6.5	4.1	2.9	2.4	2.0
57.5°	997.5	701.6	42.8	22.0	11.4	8.1	4.9	3.3	2.4	1.6	1.6
60°	1074.5	737.9	37.9	18.3	9.8	6.5	4.1	2.4	1.6	1.2	1.2
62.5°	1136.8	761.5	31.4	14.7	8.1	5.3	3.3	2.0	1.6	1.2	1.2
65°	1207.7	780.7	25.7	11.4	6.9	4.5	2.9	1.6	1.2	1.2	1.2
67.5°	1346.7	823.5	19.2	9.0	5.3	3.7	2.4	1.6	1.2	0.8	0.8
70°	1400.9	773.4	15.1	7.3	4.1	3.3	2.4	1.6	0.8	0.8	0.8
72.5°	1192.2	579.0	11.8	6.1	3.7	2.9	2.4	1.6	1.2	1.2	0.8
75°	945.7	391.2	9.4	4.9	3.7	3.3	2.4	2.4	2.0	1.6	1.6
77.5°	603.9	173.2	7.3	4.1	3.7	4.1	3.7	2.4	2.4	2.0	2.0
80°	180.1	41.6	5.3	3.3	2.9	3.3	3.7	2.4	1.6	1.2	1.2
82.5°	39.1	9.8	3.3	1.6	2.0	1.6	2.4	2.4	1.6	1.2	1.2
85°	13.0	3.7	2.0	1.6	1.2	1.2	1.2	1.2	1.2	1.2	0.8
87.5°	0.8	1.2	1.2	0.8	0.8	0.8	0.8	0.4	0.4	0.8	0.8
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)