

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: P401207

Luminaire Tested: **ENV-SA1B-827-U-T2-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1B-827-U-T2-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1907 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B0 - U0 - G0

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

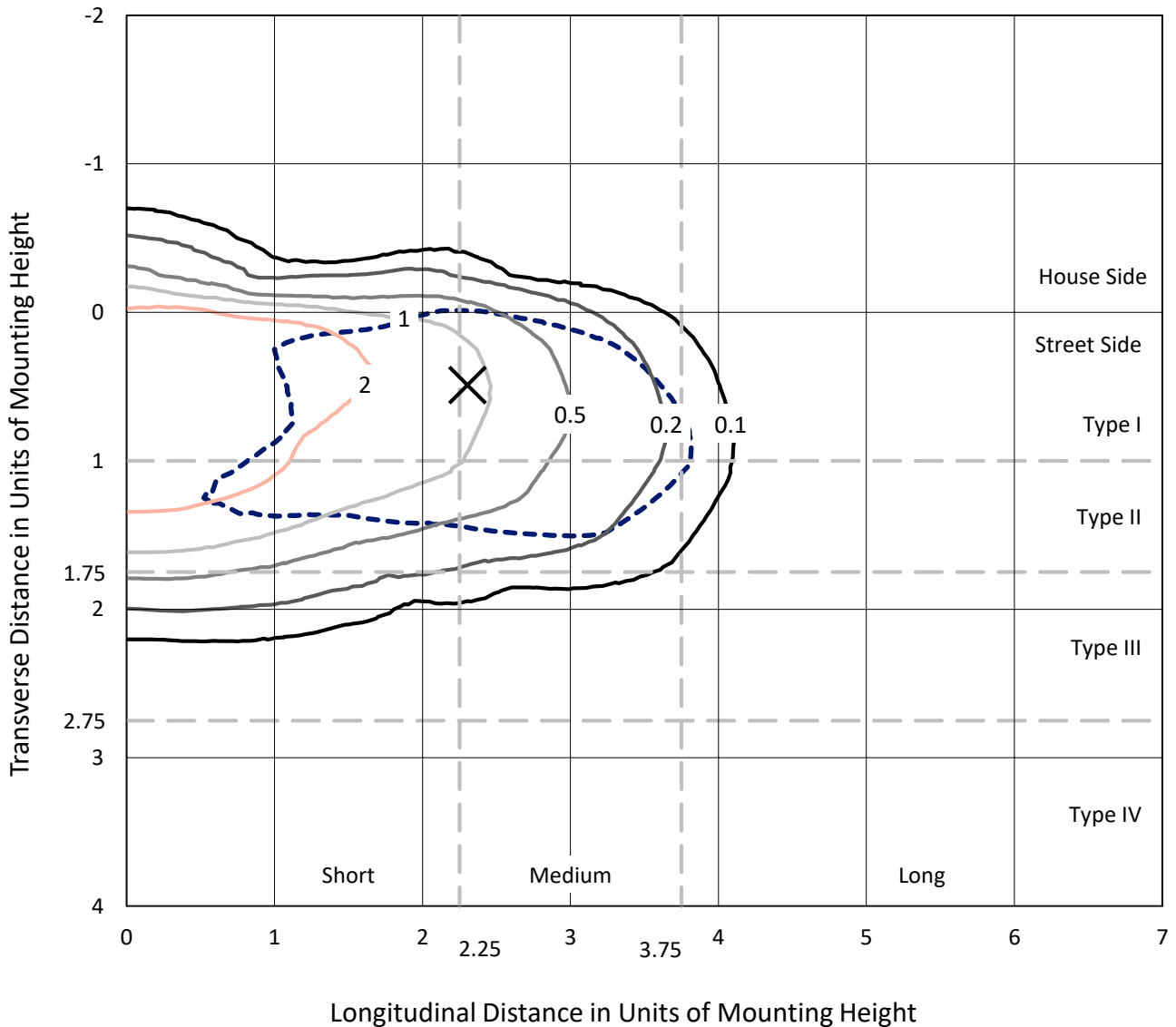


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

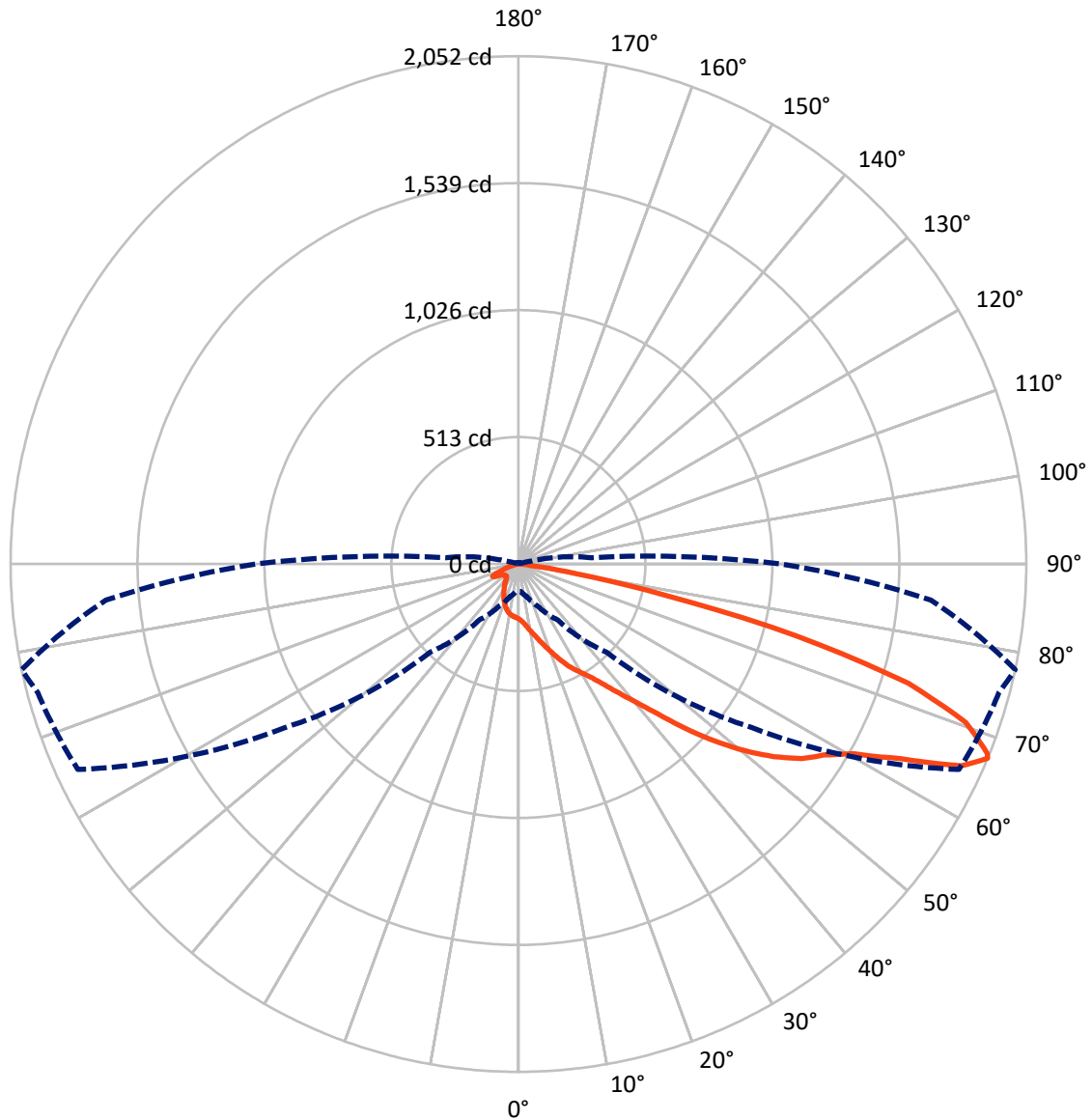


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	134.5	0.0	134.5
	% Fixture	7.1	0.0	7.1
<b>Street Side</b>	Lumens	1772.5	0.0	1772.5
	% Fixture	92.9	0.0	92.9
<b>Total</b>	Lumens	1907.0	0.0	1907.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.3	1.1
10°-20°	61.1	3.2
20°-30°	108.0	5.7
30°-40°	190.4	10.0
40°-50°	327.3	17.2
50°-60°	492.7	25.8
60°-70°	484.8	25.4
70°-80°	211.9	11.1
80°-90°	9.4	0.5
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°	1907.0	100.0
0°-180°	1907.0	100.0



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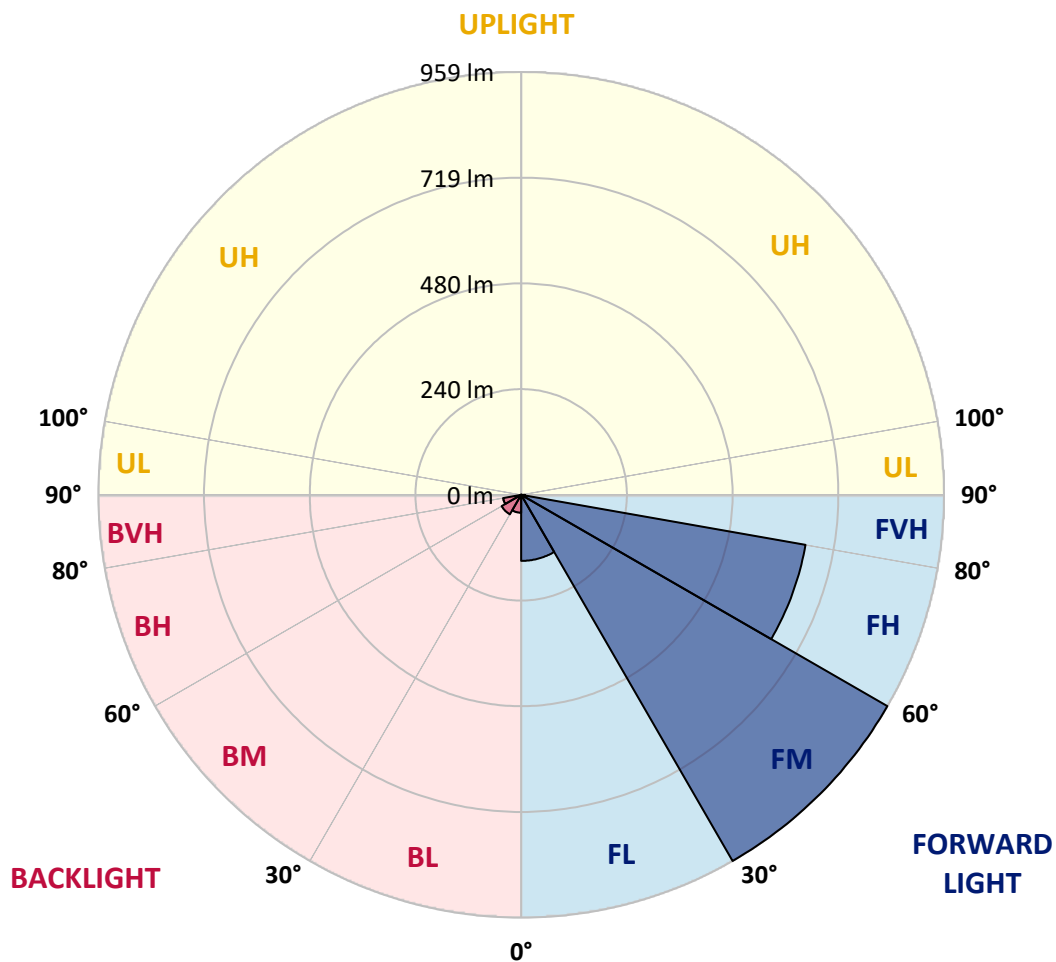
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	149.8	7.9			
FM (30°-60°)	959.2	50.3			
FH (60°-80°)	655.0	34.3			G0/660
FVH (80°-90°)	8.4	0.4			G0/10
BL (0°-30°)	40.7	2.1	B0/110		
BM (30°-60°)	51.2	2.7	B0/220		
BH (60°-80°)	41.7	2.2	B0/110		G0/110
BVH (80°-90°)	1.0	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-G0**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	221.4	221.4	221.4	221.4	221.4	221.4	221.4	221.4	221.4	221.4	221.4
2.5°	254.0	255.1	253.7	252.6	249.7	246.1	242.6	237.2	231.4	229.3	225.7
5°	285.2	285.2	285.2	282.3	279.8	273.0	264.8	256.5	245.8	241.8	233.6
7.5°	301.7	302.0	303.1	303.1	301.7	297.0	288.1	278.7	262.6	257.2	244.0
10°	303.5	304.9	307.8	312.1	315.3	317.8	312.4	302.4	283.0	276.6	257.2
12.5°	298.8	299.5	304.2	312.1	322.4	332.8	333.2	327.1	305.6	296.7	273.4
15°	288.1	289.1	295.9	308.5	324.6	343.2	354.0	352.2	332.1	321.7	291.3
17.5°	270.9	271.9	280.5	299.2	322.8	350.0	373.0	381.9	358.3	348.2	309.5
20°	270.1	270.5	273.7	287.7	315.6	354.0	391.6	412.7	390.2	379.4	331.0
22.5°	316.0	313.1	306.0	297.0	309.2	352.9	408.4	445.3	429.6	412.7	355.8
25°	367.2	368.3	360.4	339.3	323.9	351.1	421.3	482.2	466.5	449.6	381.2
27.5°	421.0	419.2	412.4	393.0	367.2	364.0	430.6	512.0	501.9	481.5	403.8
30°	473.3	471.8	466.8	447.1	419.2	397.3	437.8	538.8	535.6	513.0	422.0
32.5°	533.1	535.6	529.2	503.4	469.3	442.5	453.2	567.1	576.5	548.9	441.0
35°	602.6	602.6	589.4	565.7	530.6	493.0	484.0	598.3	628.4	598.7	471.1
37.5°	659.9	664.6	656.7	622.7	589.7	550.3	531.0	636.7	692.5	662.4	511.6
40°	705.1	713.0	713.3	679.6	649.2	623.4	596.5	690.8	773.2	734.5	560.0
42.5°	747.0	748.4	754.5	735.2	704.7	697.9	670.3	754.9	873.8	828.3	624.5
45°	800.4	803.3	799.7	785.3	759.2	768.1	752.7	836.2	987.0	948.7	700.4
47.5°	878.8	885.7	880.3	854.5	822.6	839.4	828.3	917.2	1114.9	1068.4	782.8
50°	952.3	957.7	963.4	955.2	923.3	907.2	893.5	1002.8	1224.6	1185.2	863.8
52.5°	960.2	965.2	996.7	1025.7	1046.9	1004.6	962.0	1089.5	1326.0	1293.0	938.0
55°	908.9	912.2	964.8	1022.2	1119.2	1133.6	1062.6	1175.1	1410.9	1388.3	987.8
57.5°	766.3	780.0	854.8	942.6	1101.3	1210.3	1205.6	1274.7	1466.1	1455.7	1051.9
60°	503.4	518.4	608.0	740.9	969.5	1189.8	1362.5	1424.1	1543.4	1554.9	1164.4
62.5°	260.8	278.4	357.2	475.1	702.6	1036.1	1415.9	1669.6	1691.8	1730.8	1365.0
65°	149.0	152.6	192.0	278.4	434.9	742.0	1351.8	1912.5	1887.0	1966.2	1621.2
67°	110.7	110.7	138.3	189.2	275.5	504.5	1152.9	1963.7	2009.9	2051.8	1672.8
67.5°	99.2	104.6	128.3	174.5	247.2	447.5	1078.8	1950.1	2017.8	2044.0	1654.9
70°	68.1	71.7	92.1	125.0	166.6	232.9	707.2	1724.7	1944.0	1917.5	1499.7
72.5°	40.8	42.3	60.9	89.9	124.3	124.7	385.9	1309.1	1647.3	1647.0	1224.9
75°	25.4	26.9	35.8	60.2	87.1	78.1	178.4	890.7	1183.0	1160.1	820.8
77.5°	14.3	16.5	21.5	33.0	55.2	49.8	75.2	499.1	639.2	599.8	407.7
80°	5.7	6.8	12.2	15.8	31.2	29.7	30.8	175.6	258.7	233.2	136.5
82.5°	1.4	1.8	4.3	7.5	12.2	12.2	9.7	48.0	61.3	57.0	35.1
85°	0.0	0.0	0.4	0.4	0.4	0.7	2.5	5.4	6.4	7.5	5.7
87.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.7	1.1	1.1	1.1	1.1
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°	221.4	221.4	221.4	221.4	221.4	221.4	221.4	221.4	221.4	221.4	221.4
2.5°	222.8	220.3	215.3	209.9	204.6	200.3	196.7	191.7	191.0	191.0	191.0
5°	227.5	221.8	210.3	198.8	187.4	177.0	169.5	163.4	158.0	156.2	157.6
7.5°	234.3	223.9	203.9	183.8	165.9	151.2	140.4	131.8	127.9	125.8	124.0
10°	243.3	227.1	195.3	165.9	143.3	125.8	114.3	106.0	102.1	99.6	100.0
12.5°	252.9	229.7	184.5	146.5	121.5	105.3	95.7	88.9	82.4	78.5	79.5
15°	262.6	231.4	171.3	128.6	104.6	90.3	76.7	64.5	60.2	59.5	59.1
17.5°	273.4	231.1	156.6	111.8	90.3	70.2	56.6	55.2	54.8	54.8	54.5
20°	284.5	229.3	139.7	97.8	76.0	53.4	51.2	50.5	49.4	49.1	48.7
22.5°	296.7	226.1	124.3	85.6	56.6	48.7	45.9	43.7	41.9	40.8	41.2
25°	307.8	220.0	109.3	74.2	48.4	43.7	39.8	36.5	34.8	33.3	33.7
27.5°	315.3	209.2	96.4	59.8	44.4	38.7	34.0	30.8	28.3	27.2	27.2
30°	316.0	193.8	84.9	49.1	40.5	34.0	29.0	25.4	24.0	23.3	22.9
32.5°	315.3	178.1	76.3	45.1	36.9	29.7	24.7	22.2	20.8	20.1	20.1
35°	318.9	161.9	68.4	41.6	33.0	26.2	21.9	19.3	18.3	17.6	17.6
37.5°	329.6	150.8	60.2	38.0	29.4	22.9	19.7	17.6	16.5	15.8	15.8
40°	344.3	141.5	50.2	34.4	25.8	20.8	17.9	16.1	14.7	14.0	14.0
42.5°	370.1	137.9	41.9	30.8	22.6	18.6	16.5	14.3	12.9	12.2	12.2
45°	408.4	139.7	38.3	27.6	20.4	16.8	14.7	12.5	11.1	10.7	10.7
47.5°	450.7	147.3	35.8	24.7	18.6	15.8	13.3	11.1	9.7	9.3	9.3
50°	498.0	159.1	33.7	21.9	16.8	14.3	11.8	9.7	8.6	8.2	8.2
52.5°	543.1	174.1	31.5	19.7	15.8	12.9	10.4	8.6	7.9	7.5	7.5
55°	577.5	183.8	29.7	18.3	14.7	11.8	9.3	8.2	7.2	6.8	6.8
57.5°	625.5	199.9	27.6	16.5	13.3	10.7	8.6	7.5	6.4	6.4	6.4
60°	723.0	243.3	24.4	15.0	11.8	9.7	8.2	6.8	6.1	5.7	5.7
62.5°	898.6	314.9	21.1	14.0	10.4	8.6	7.2	6.1	5.4	4.7	4.7
65°	1067.7	344.7	17.9	12.2	9.3	7.5	6.4	5.4	3.9	3.2	3.2
67°	1058.3	294.9	15.0	10.4	7.9	6.8	5.4	4.3	2.9	1.8	1.8
67.5°	1033.3	274.4	14.7	10.0	7.5	6.4	5.4	3.9	2.5	1.4	1.4
70°	878.1	192.0	11.5	7.9	6.4	5.7	4.3	2.9	1.4	0.7	0.7
72.5°	713.3	152.3	9.0	6.4	5.4	4.3	3.6	1.8	1.1	0.4	0.4
75°	504.5	93.5	7.9	5.7	4.3	3.2	2.9	1.8	1.1	0.7	0.4
77.5°	249.0	43.0	6.4	5.0	3.9	3.2	2.5	2.1	1.8	1.4	0.7
80°	73.1	14.0	4.3	3.6	3.6	3.2	2.9	2.5	2.1	1.8	1.1
82.5°	16.5	5.0	1.4	1.8	2.5	2.5	2.5	1.8	1.4	0.7	0.4
85°	2.1	1.1	1.1	1.1	1.4	1.4	1.1	0.7	0.7	0.0	0.0
87.5°	0.7	0.7	0.7	1.1	1.1	1.1	0.7	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

(END OF REPORT)