

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: P401146

Luminaire Tested: **ENV-SA1B-740-U-T2-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401146  
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-740-U-T2-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 4000K, 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: 2594 lumens  
Efficiency: N/A  
Efficacy: 102.1 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 - 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

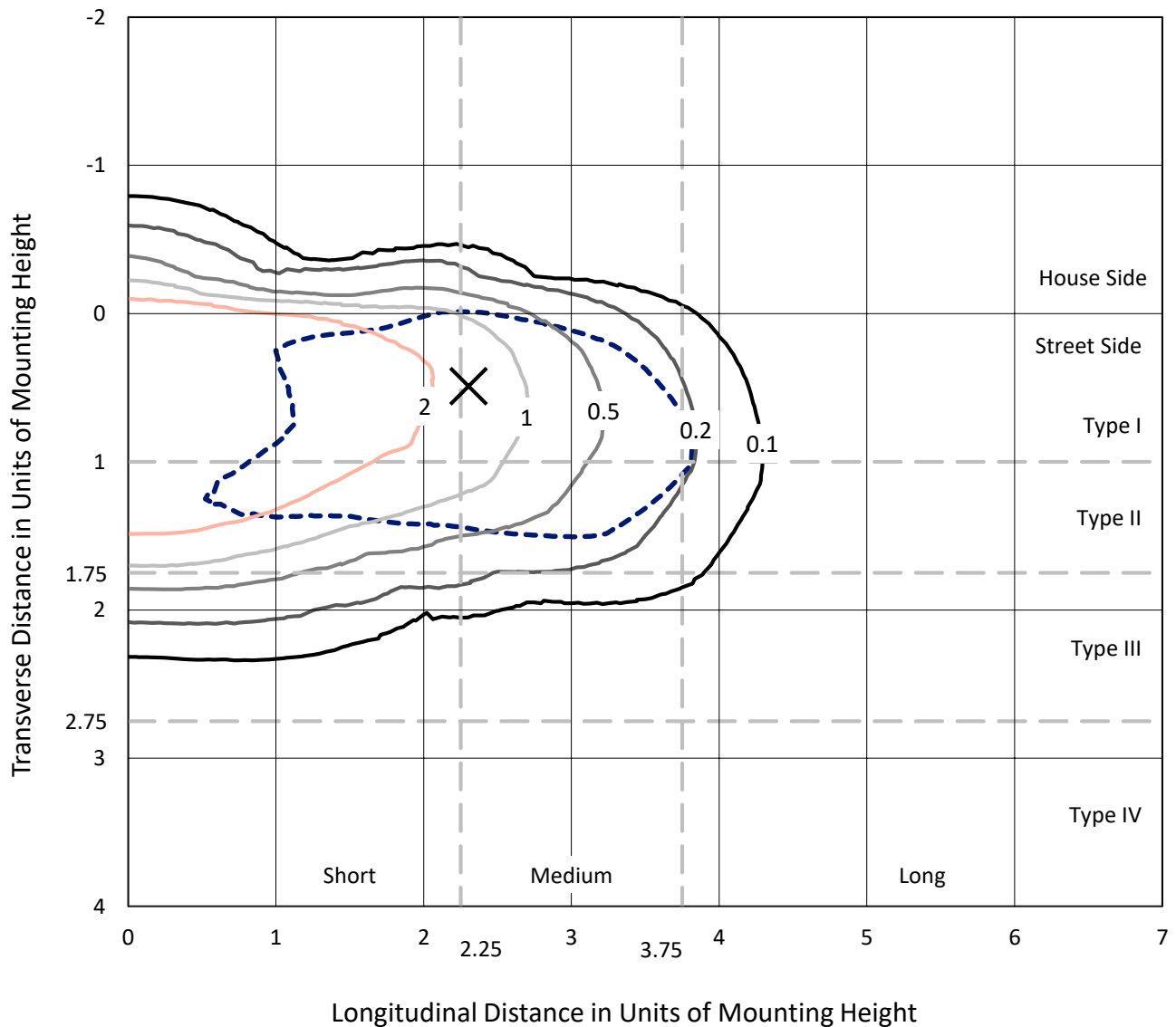


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

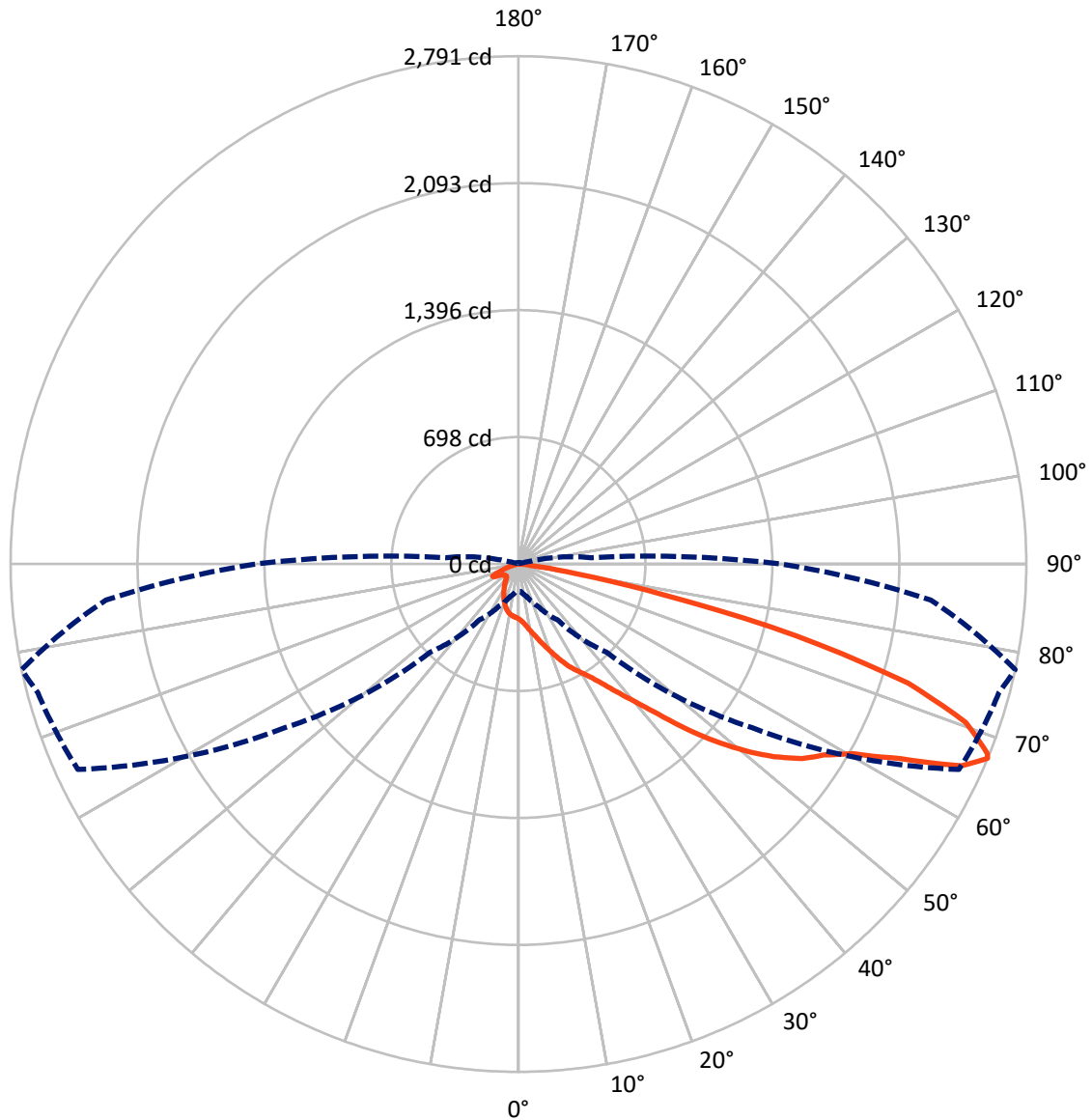


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - Semi-Cutoff

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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	183.0	0.0	183.0
	% Fixture	7.1	0.0	7.1
<b>Street Side</b>	Lumens	2411.0	0.0	2411.0
	% Fixture	92.9	0.0	92.9
<b>Total</b>	Lumens	2594.0	0.0	2594.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.0	1.1
10°-20°	83.2	3.2
20°-30°	146.9	5.7
30°-40°	259.0	10.0
40°-50°	445.2	17.2
50°-60°	670.2	25.8
60°-70°	659.5	25.4
70°-80°	288.2	11.1
80°-90°	12.8	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°	2594.0	100.0
0°-180°	2594.0	100.0



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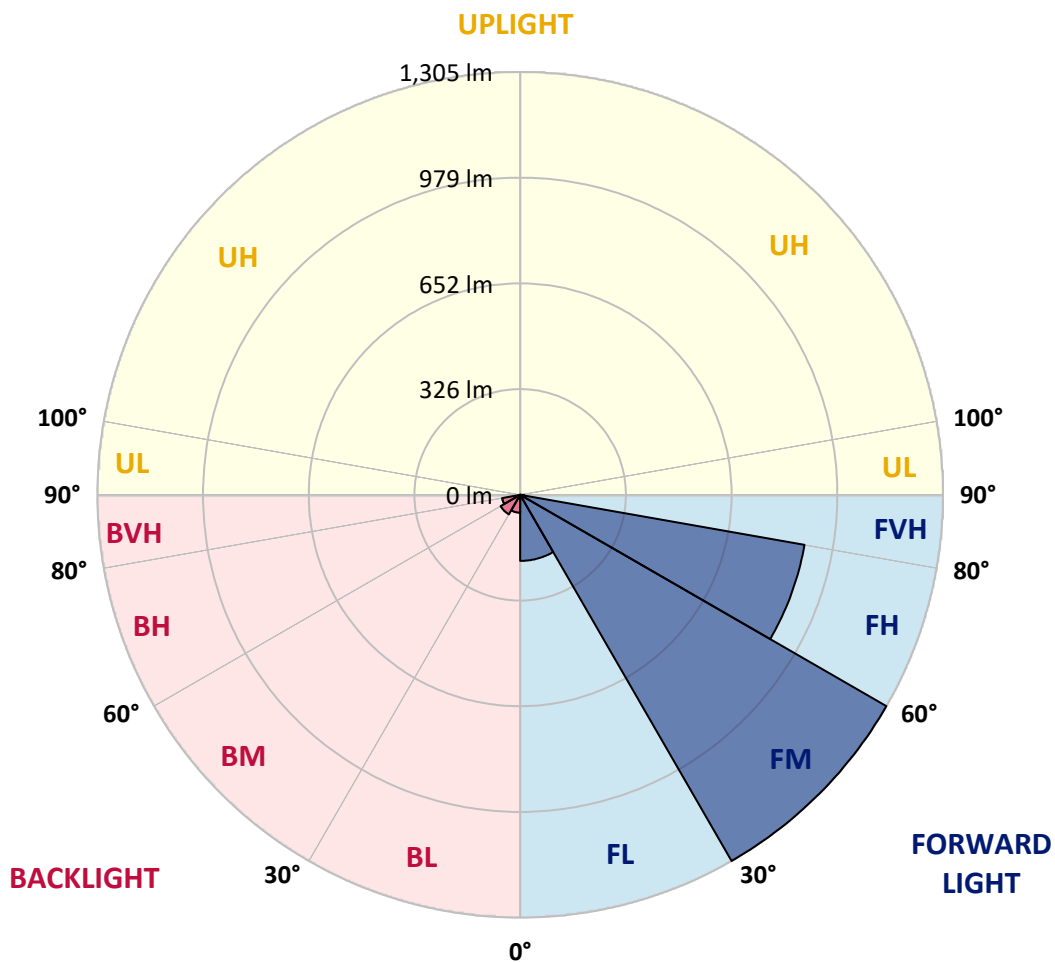
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.8	7.9			
FM	(30°-60°)	1304.8	50.3			
FH	(60°-80°)	890.9	34.3			G1/1800
FVH	(80°-90°)	11.5	0.4			G1/100
BL	(0°-30°)	55.3	2.1	B0/110		
BM	(30°-60°)	69.6	2.7	B0/220		
BH	(60°-80°)	56.8	2.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	345.5	347.0	345.0	343.6	339.7	334.8	329.9	322.6	314.8	311.9	307.0
5°	387.9	387.9	387.9	384.0	380.6	371.4	360.1	348.9	334.3	329.0	317.7
7.5°	410.3	410.8	412.3	412.3	410.3	404.0	391.8	379.2	357.2	349.9	331.9
10°	412.8	414.7	418.6	424.5	428.9	432.3	425.0	411.3	385.0	376.2	349.9
12.5°	406.4	407.4	413.8	424.5	438.6	452.7	453.2	444.9	415.7	403.5	371.8
15°	391.8	393.3	402.5	419.6	441.5	466.9	481.5	479.1	451.8	437.6	396.2
17.5°	368.4	369.9	381.6	406.9	439.1	476.1	507.3	519.5	487.3	473.7	421.1
20°	367.5	367.9	372.3	391.3	429.3	481.5	532.7	561.4	530.7	516.1	450.3
22.5°	429.8	425.9	416.2	404.0	420.6	480.0	555.6	605.8	584.3	561.4	483.9
25°	499.5	501.0	490.3	461.5	440.6	477.6	573.1	656.0	634.5	611.6	518.5
27.5°	572.6	570.2	560.9	534.6	499.5	495.1	585.8	696.4	682.8	655.0	549.2
30°	643.8	641.8	635.0	608.2	570.2	540.5	595.5	733.0	728.6	697.9	574.1
32.5°	725.2	728.6	719.8	684.7	638.4	601.9	616.5	771.5	784.1	746.6	599.9
35°	819.7	819.7	801.7	769.5	721.8	670.6	658.4	813.9	854.8	814.4	640.9
37.5°	897.7	904.0	893.3	847.0	802.2	748.6	722.2	866.0	942.0	901.1	695.9
40°	959.1	969.8	970.3	924.5	883.1	848.0	811.4	939.6	1051.7	999.1	761.7
42.5°	1016.1	1018.1	1026.3	1000.0	958.6	949.3	911.8	1026.8	1188.6	1126.7	849.4
45°	1088.7	1092.6	1087.8	1068.3	1032.7	1044.9	1023.9	1137.5	1342.6	1290.5	952.8
47.5°	1195.5	1204.7	1197.4	1162.3	1118.9	1141.8	1126.7	1247.6	1516.6	1453.3	1064.8
50°	1295.4	1302.7	1310.5	1299.3	1255.9	1234.0	1215.4	1364.1	1665.7	1612.1	1175.0
52.5°	1306.1	1312.9	1355.8	1395.3	1424.0	1366.5	1308.5	1482.0	1803.7	1758.8	1275.9
55°	1236.4	1240.8	1312.4	1390.4	1522.5	1542.0	1445.5	1598.5	1919.2	1888.5	1343.6
57.5°	1042.4	1060.9	1162.8	1282.2	1498.1	1646.2	1639.9	1734.0	1994.2	1980.1	1430.8
60°	684.7	705.2	827.0	1007.8	1318.8	1618.5	1853.4	1937.2	2099.5	2115.1	1583.9
62.5°	354.8	378.7	485.9	646.2	955.7	1409.4	1926.0	2271.0	2301.2	2354.4	1856.8
65°	202.7	207.6	261.2	378.7	591.6	1009.3	1838.7	2601.4	2566.8	2674.5	2205.2
67°	150.6	150.6	188.1	257.3	374.8	686.2	1568.3	2671.1	2734.0	2791.0	2275.4
67.5°	135.0	142.3	174.5	237.3	336.3	608.7	1467.4	2652.6	2744.7	2780.3	2251.0
70°	92.6	97.5	125.2	170.1	226.6	316.8	962.0	2346.1	2644.3	2608.3	2040.0
72.5°	55.6	57.5	82.8	122.3	169.1	169.6	524.9	1780.8	2240.8	2240.3	1666.2
75°	34.6	36.6	48.7	81.9	118.4	106.2	242.7	1211.5	1609.2	1578.0	1116.5
77.5°	19.5	22.4	29.2	44.8	75.1	67.7	102.3	678.9	869.4	815.8	554.6
80°	7.8	9.3	16.6	21.4	42.4	40.4	41.9	238.8	351.9	317.3	185.7
82.5°	1.9	2.4	5.8	10.2	16.6	16.6	13.2	65.3	83.3	77.5	47.8
85°	0.0	0.0	0.5	0.5	0.5	1.0	3.4	7.3	8.8	10.2	7.8
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.5	1.5	1.5
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°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	303.1	299.7	292.9	285.6	278.3	272.4	267.6	260.7	259.8	259.8	259.8
5°	309.5	301.7	286.1	270.5	254.9	240.7	230.5	222.2	214.9	212.5	214.4
7.5°	318.7	304.6	277.3	250.0	225.6	205.7	191.0	179.3	174.0	171.1	168.6
10°	330.9	309.0	265.6	225.6	194.9	171.1	155.5	144.3	138.9	135.5	136.0
12.5°	344.1	312.4	251.0	199.3	165.2	143.3	130.1	120.9	112.1	106.7	108.2
15°	357.2	314.8	233.0	175.0	142.3	122.8	104.3	87.7	81.9	80.9	80.4
17.5°	371.8	314.3	213.0	152.1	122.8	95.5	77.0	75.1	74.6	74.6	74.1
20°	387.0	311.9	190.1	133.0	103.3	72.6	69.7	68.7	67.3	66.8	66.3
22.5°	403.5	307.5	169.1	116.5	77.0	66.3	62.4	59.5	57.0	55.6	56.0
25°	418.6	299.2	148.6	100.9	65.8	59.5	54.1	49.7	47.3	45.3	45.8
27.5°	428.9	284.6	131.1	81.4	60.4	52.6	46.3	41.9	38.5	37.0	37.0
30°	429.8	263.7	115.5	66.8	55.1	46.3	39.5	34.6	32.7	31.7	31.2
32.5°	428.9	242.2	103.8	61.4	50.2	40.4	33.6	30.2	28.3	27.3	27.3
35°	433.7	220.3	93.1	56.5	44.8	35.6	29.7	26.3	24.9	23.9	23.9
37.5°	448.4	205.2	81.9	51.7	40.0	31.2	26.8	23.9	22.4	21.4	21.4
40°	468.3	192.5	68.2	46.8	35.1	28.3	24.4	21.9	20.0	19.0	19.0
42.5°	503.4	187.6	57.0	41.9	30.7	25.3	22.4	19.5	17.5	16.6	16.6
45°	555.6	190.1	52.1	37.5	27.8	22.9	20.0	17.1	15.1	14.6	14.6
47.5°	613.1	200.3	48.7	33.6	25.3	21.4	18.0	15.1	13.2	12.7	12.7
50°	677.4	216.4	45.8	29.7	22.9	19.5	16.1	13.2	11.7	11.2	11.2
52.5°	738.8	236.8	42.9	26.8	21.4	17.5	14.1	11.7	10.7	10.2	10.2
55°	785.6	250.0	40.4	24.9	20.0	16.1	12.7	11.2	9.7	9.3	9.3
57.5°	850.9	271.9	37.5	22.4	18.0	14.6	11.7	10.2	8.8	8.8	8.8
60°	983.5	330.9	33.1	20.5	16.1	13.2	11.2	9.3	8.3	7.8	7.8
62.5°	1222.3	428.4	28.8	19.0	14.1	11.7	9.7	8.3	7.3	6.3	6.3
65°	1452.3	468.8	24.4	16.6	12.7	10.2	8.8	7.3	5.4	4.4	4.4
67°	1439.6	401.1	20.5	14.1	10.7	9.3	7.3	5.8	3.9	2.4	2.4
67.5°	1405.5	373.3	20.0	13.6	10.2	8.8	7.3	5.4	3.4	1.9	1.9
70°	1194.5	261.2	15.6	10.7	8.8	7.8	5.8	3.9	1.9	1.0	1.0
72.5°	970.3	207.1	12.2	8.8	7.3	5.8	4.9	2.4	1.5	0.5	0.5
75°	686.2	127.2	10.7	7.8	5.8	4.4	3.9	2.4	1.5	1.0	0.5
77.5°	338.7	58.5	8.8	6.8	5.4	4.4	3.4	2.9	2.4	1.9	1.0
80°	99.4	19.0	5.8	4.9	4.9	4.4	3.9	3.4	2.9	2.4	1.5
82.5°	22.4	6.8	1.9	2.4	3.4	3.4	3.4	2.4	1.9	1.0	0.5
85°	2.9	1.5	1.5	1.5	1.9	1.9	1.5	1.0	1.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.5	1.5	1.5	1.0	0.5	0.5	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)