

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: P401101

Luminaire Tested: **ENV-SA1B-730-U-T3-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1B-730-U-T3-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2399 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full 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

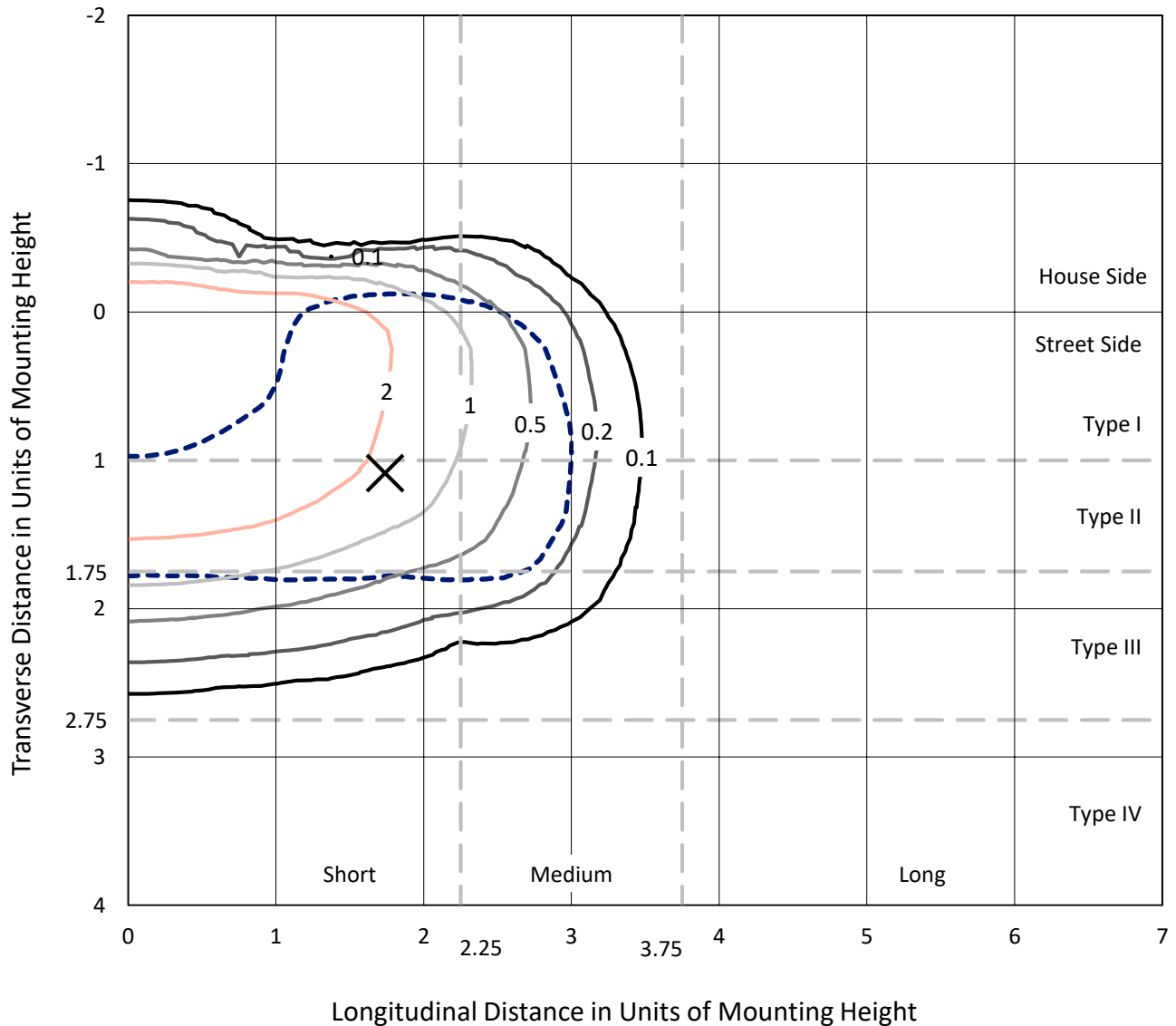


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

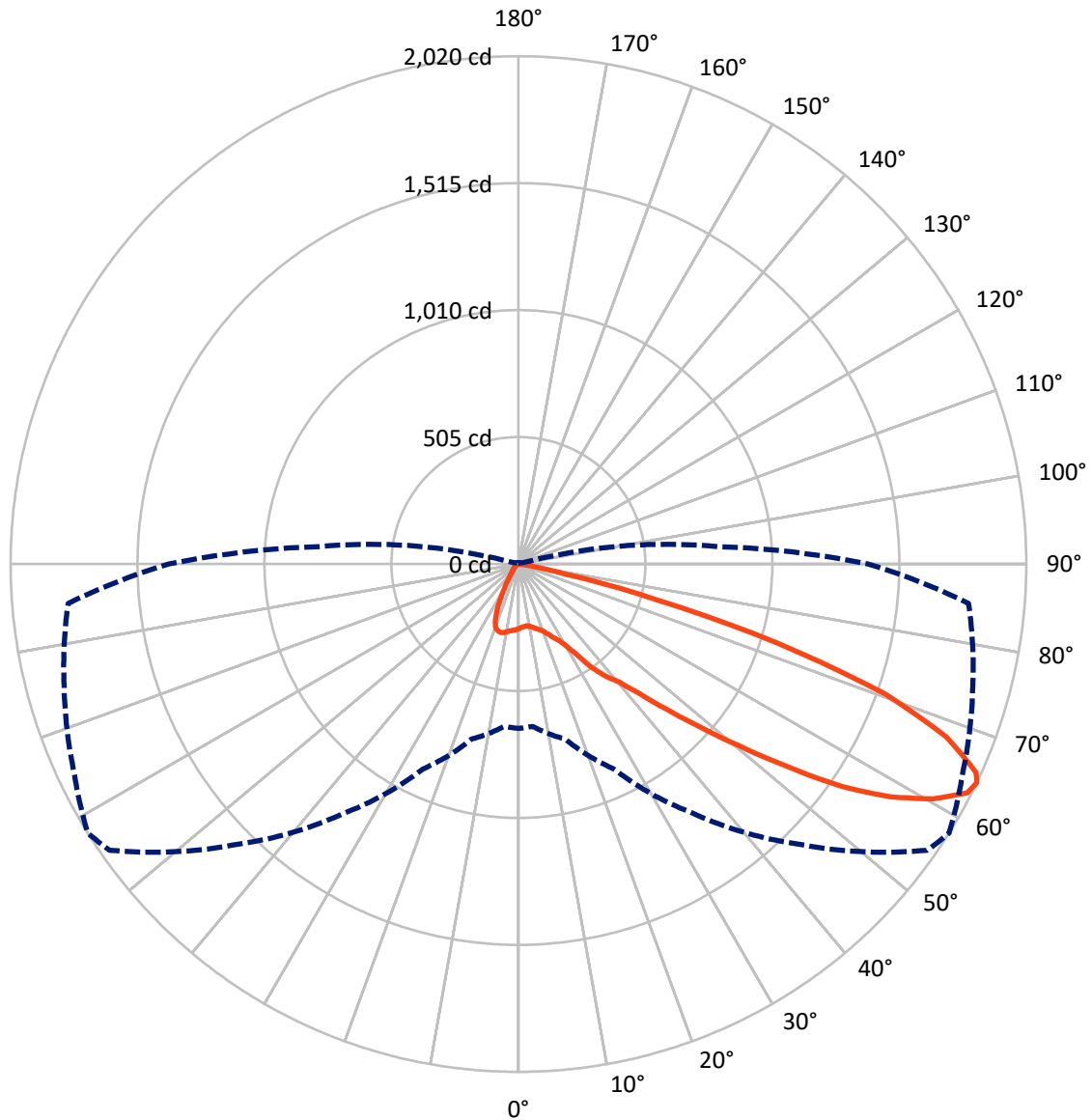


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	286.0	0.0	286.0
	% Fixture	11.9	0.0	11.9
<b>Street Side</b>	Lumens	2113.0	0.0	2113.0
	% Fixture	88.1	0.0	88.1
<b>Total</b>	Lumens	2399.0	0.0	2399.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.3	1.0
10°-20°	70.8	3.0
20°-30°	127.2	5.3
30°-40°	222.9	9.3
40°-50°	407.6	17.0
50°-60°	697.3	29.1
60°-70°	676.5	28.2
70°-80°	167.6	7.0
80°-90°	4.8	0.2
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°	2399.0	100.0
0°-180°	2399.0	100.0



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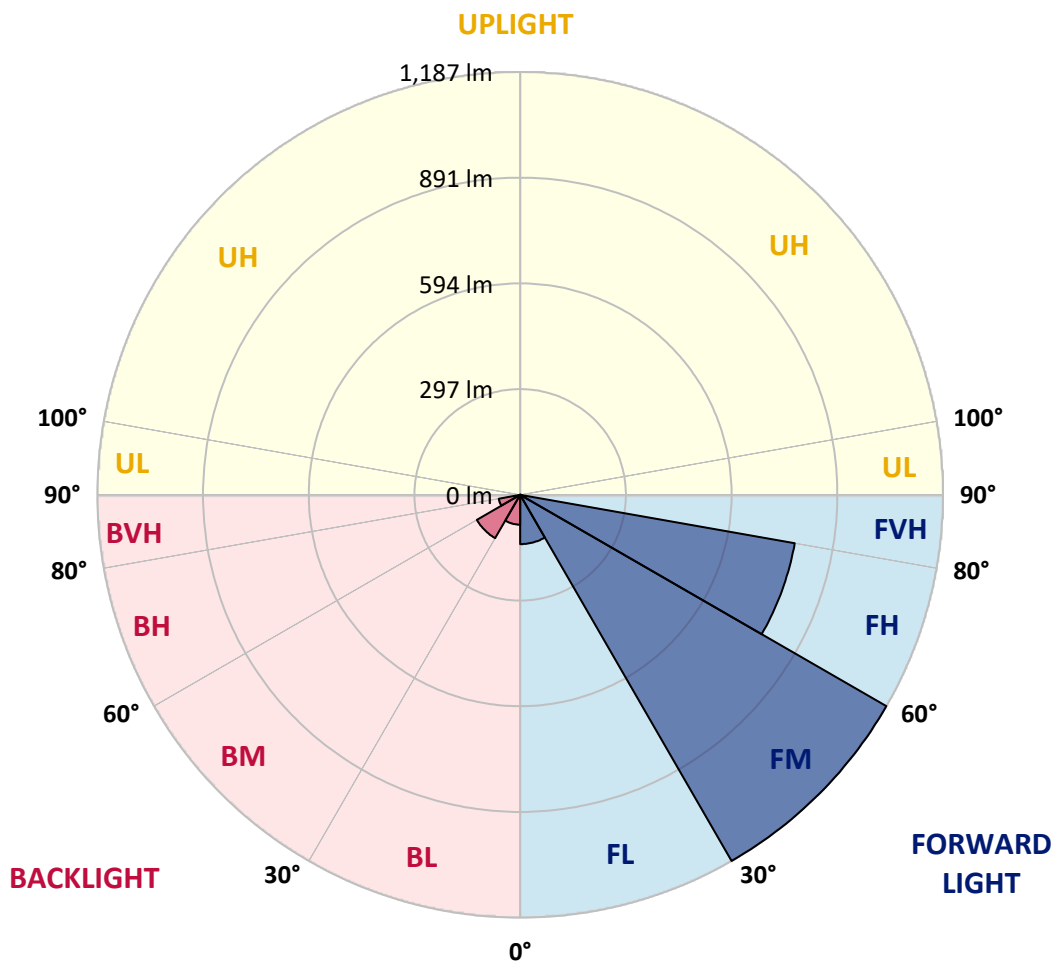
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	138.5	5.8			
FM (30°-60°)	1187.5	49.5			
FH (60°-80°)	783.0	32.6			G1/1800
FVH (80°-90°)	4.0	0.2			G0/10
BL (0°-30°)	83.7	3.5	B0/110		
BM (30°-60°)	140.5	5.9	B0/220		
BH (60°-80°)	61.1	2.5	B0/110		G0/110
BVH (80°-90°)	0.7	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°	58°	65°	75°	85°
0°	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0
2.5°	246.3	246.3	247.2	247.7	249.0	250.3	252.1	252.5	253.4	255.6	256.5
5°	233.0	233.5	234.3	236.6	239.7	243.2	247.7	249.0	252.5	257.0	260.1
7.5°	227.7	228.1	229.5	232.1	236.1	241.4	246.8	248.5	253.4	260.5	265.0
10°	226.8	226.8	228.6	232.6	237.4	244.1	249.9	252.1	258.7	267.2	274.3
12.5°	226.8	226.8	229.0	233.9	239.7	248.1	256.1	259.2	266.7	277.4	286.3
15°	230.8	231.7	233.0	236.1	242.8	252.1	263.2	266.7	276.1	288.9	300.0
17.5°	259.2	258.3	253.9	249.9	248.5	256.5	269.8	274.7	288.5	304.9	316.9
20°	314.2	313.8	305.8	286.3	269.0	264.5	280.1	285.8	305.8	327.5	336.4
22.5°	380.8	383.0	370.6	344.4	308.9	286.3	295.1	303.1	328.9	355.1	360.4
25°	446.9	449.6	438.1	405.2	361.7	322.2	316.0	323.1	352.4	378.6	376.4
27.5°	525.0	522.8	511.3	474.0	423.4	370.6	344.0	345.3	367.9	397.2	390.1
30°	582.3	579.2	568.1	542.8	495.3	434.9	383.9	379.9	386.6	419.0	411.4
32.5°	634.7	636.9	628.5	594.7	549.9	501.1	443.8	433.2	430.5	458.0	445.6
35°	686.6	686.1	683.0	653.3	609.4	563.2	515.3	507.7	506.8	533.5	499.7
37.5°	748.7	745.6	739.9	709.7	674.6	630.7	579.6	567.6	565.4	570.8	531.3
40°	815.3	819.3	810.0	778.5	740.3	707.5	636.0	617.8	602.7	618.2	592.9
42.5°	914.3	917.4	901.0	879.2	829.9	799.3	727.0	702.1	695.0	718.5	690.1
45°	1038.5	1032.8	1021.7	1006.6	965.8	919.2	843.7	820.2	812.6	853.0	806.4
47.5°	1135.3	1134.4	1134.9	1131.7	1125.5	1069.6	980.0	964.0	956.4	1014.6	963.1
50°	1196.5	1200.1	1215.2	1253.8	1282.2	1258.7	1153.5	1134.0	1128.2	1188.6	1118.9
52.5°	1242.7	1251.1	1276.4	1352.8	1443.8	1451.7	1364.8	1337.2	1323.9	1340.8	1244.0
55°	1266.2	1270.2	1308.8	1421.6	1564.0	1621.3	1584.9	1561.8	1508.1	1476.2	1390.9
57.5°	1211.2	1205.0	1271.5	1414.9	1626.2	1758.0	1773.5	1747.3	1661.2	1636.4	1569.4
60°	1066.9	1064.3	1139.3	1311.5	1572.0	1789.9	1913.3	1896.9	1817.9	1758.9	1695.8
62.5°	814.0	818.4	897.9	1073.2	1379.0	1698.1	1991.0	2004.3	1920.4	1832.5	1789.5
64°	653.7	648.4	721.2	899.6	1209.9	1575.6	1985.2	2020.3	1951.5	1871.2	1797.9
65°	549.0	537.5	607.1	768.7	1066.9	1486.8	1944.4	2000.7	1953.7	1880.5	1767.3
67.5°	288.9	295.1	324.9	466.9	720.3	1124.2	1750.9	1836.1	1855.2	1753.1	1540.1
70°	129.6	130.5	149.6	238.3	398.6	729.2	1408.2	1546.3	1556.9	1440.2	1115.8
72.5°	43.1	43.5	66.1	95.4	167.3	337.7	951.1	1076.7	1099.8	933.8	605.4
75°	26.6	27.5	35.1	51.5	77.7	118.1	482.0	567.2	572.1	414.1	220.1
77.5°	16.9	17.8	21.3	30.6	42.6	44.8	158.0	191.3	216.6	149.1	68.3
80°	10.7	10.7	13.8	18.6	22.2	19.1	43.1	56.8	68.3	50.2	23.1
82.5°	4.0	4.0	7.1	10.2	9.3	6.7	11.5	15.1	26.2	24.9	11.1
85°	0.0	0.0	0.4	0.9	0.4	0.9	2.2	3.1	4.9	7.1	3.6
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.9	0.9	0.9	0.9	0.9
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°	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0
2.5°	257.9	258.7	260.5	261.0	261.4	260.1	261.4	260.1	261.0	261.0	261.0
5°	261.9	263.2	264.5	265.0	264.5	261.4	262.3	260.1	259.6	259.6	259.6
7.5°	267.2	268.5	270.7	269.4	266.7	262.3	261.9	258.7	257.4	257.4	257.9
10°	276.9	278.3	279.2	276.5	271.2	264.5	259.6	253.0	249.9	248.5	248.5
12.5°	289.4	290.7	290.3	285.8	276.1	262.3	248.5	235.7	226.3	222.8	219.2
15°	302.7	304.5	303.6	294.3	275.6	251.2	224.6	194.4	175.8	163.8	161.6
17.5°	318.2	320.0	315.6	298.7	269.0	227.7	177.1	136.3	109.2	99.0	98.5
20°	337.3	336.4	325.8	299.1	257.0	184.2	118.5	85.2	73.7	71.0	70.6
22.5°	359.1	355.1	335.5	296.5	224.1	125.2	76.3	67.5	66.1	65.2	65.2
25°	371.5	364.4	339.1	288.9	172.6	79.9	64.8	63.0	61.2	59.5	59.0
27.5°	381.2	370.6	340.4	264.1	114.9	61.2	58.6	56.8	54.1	51.5	51.0
30°	399.0	383.0	342.6	220.6	70.6	52.4	51.0	47.9	43.9	41.3	40.4
32.5°	431.0	407.9	351.5	165.1	51.5	46.2	42.6	38.6	34.2	31.5	31.5
35°	465.1	431.4	355.9	108.7	44.8	40.4	35.1	30.2	26.2	24.0	23.5
37.5°	496.6	465.1	354.6	66.6	39.9	34.6	28.8	24.0	20.4	18.6	18.6
40°	561.0	524.2	336.4	45.7	35.1	29.3	23.5	18.6	16.4	15.1	15.1
42.5°	652.9	589.0	296.0	39.1	30.6	24.4	18.6	15.5	13.8	12.4	12.4
45°	755.8	660.4	236.1	35.1	26.6	20.4	15.5	12.9	11.1	10.7	10.7
47.5°	890.7	747.0	173.5	31.5	23.1	17.3	12.9	10.7	9.8	9.3	9.3
50°	1008.8	817.1	118.5	27.5	20.4	14.6	11.1	9.8	8.9	8.4	8.4
52.5°	1116.2	865.9	78.1	24.0	18.2	12.0	10.2	8.9	8.4	8.0	8.0
55°	1242.7	903.2	52.8	20.9	16.0	11.1	9.8	8.9	8.0	8.0	7.5
57.5°	1350.1	925.4	37.7	17.8	14.2	10.2	9.3	8.4	7.5	7.1	7.1
60°	1412.7	899.2	27.5	15.5	12.4	9.3	8.4	7.5	7.1	6.7	6.7
62.5°	1430.0	848.6	21.3	13.3	10.7	8.4	7.5	6.7	6.2	5.8	5.8
64°	1390.0	794.4	18.2	11.5	9.3	7.5	7.1	6.2	5.3	4.4	4.4
65°	1333.7	744.3	16.4	10.7	8.4	7.1	6.7	5.8	4.4	3.6	3.6
67.5°	1111.3	593.4	13.3	8.9	6.7	6.2	5.3	4.4	3.1	2.2	2.2
70°	789.1	415.0	10.2	7.1	5.8	5.8	4.9	3.6	1.8	0.9	0.9
72.5°	417.6	215.7	8.4	5.8	4.4	4.4	4.0	2.2	1.3	0.9	0.4
75°	146.0	71.0	7.1	4.9	4.0	3.1	2.7	1.8	1.3	0.9	0.4
77.5°	44.4	23.5	6.2	4.9	3.6	2.7	3.1	2.7	2.7	1.8	1.3
80°	14.2	8.4	3.6	3.1	3.6	3.6	3.1	2.7	3.1	2.2	1.8
82.5°	5.3	3.1	1.3	1.8	1.8	2.2	2.2	1.8	1.3	0.4	0.0
85°	1.8	1.3	0.9	1.3	1.3	1.3	0.9	0.9	0.4	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.0	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)