

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: P401118

Luminaire Tested: **ENV-SA1B-735-U-T2**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1B-735-U-T2  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3205 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

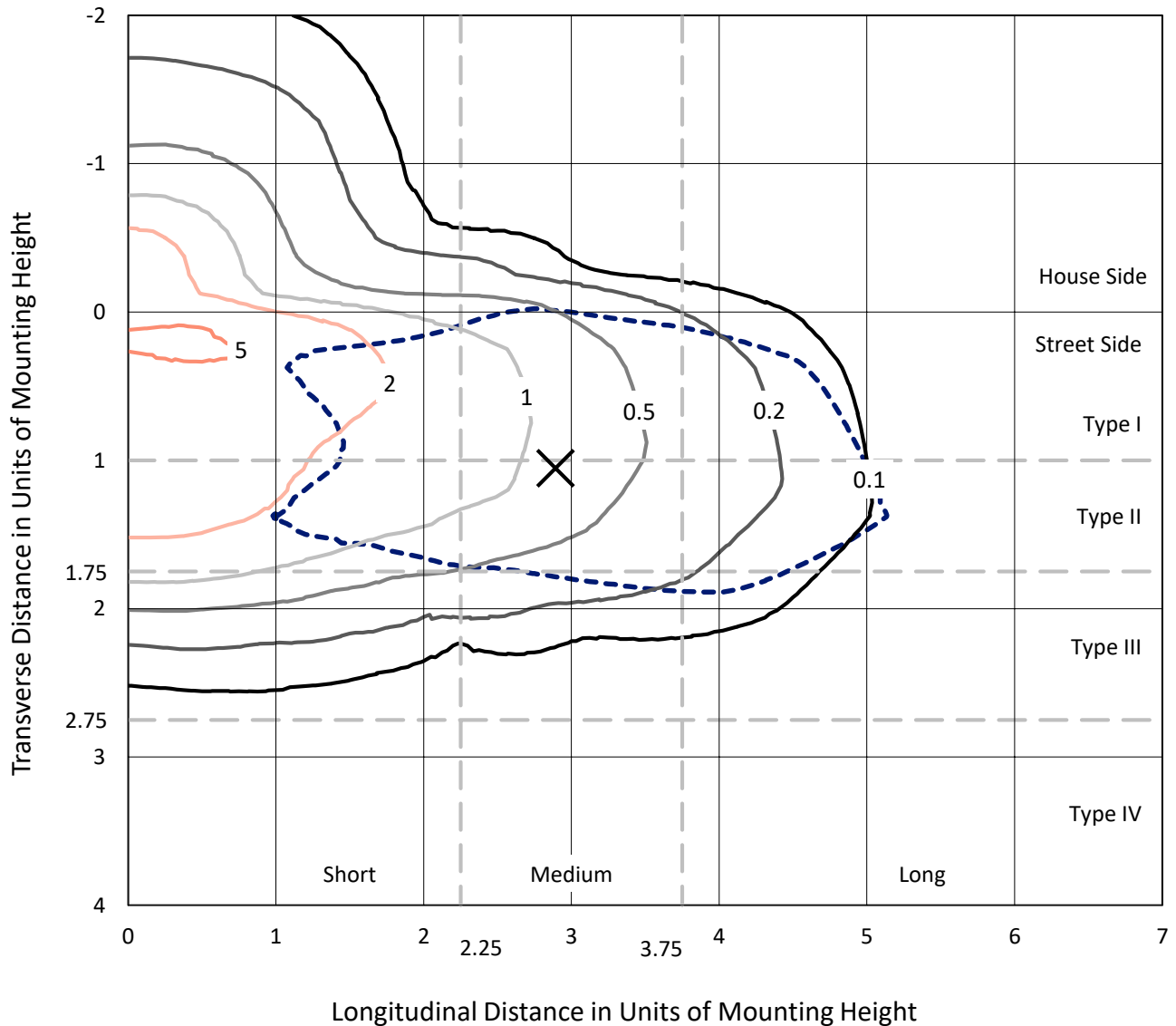
Input Watts (W): 25.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

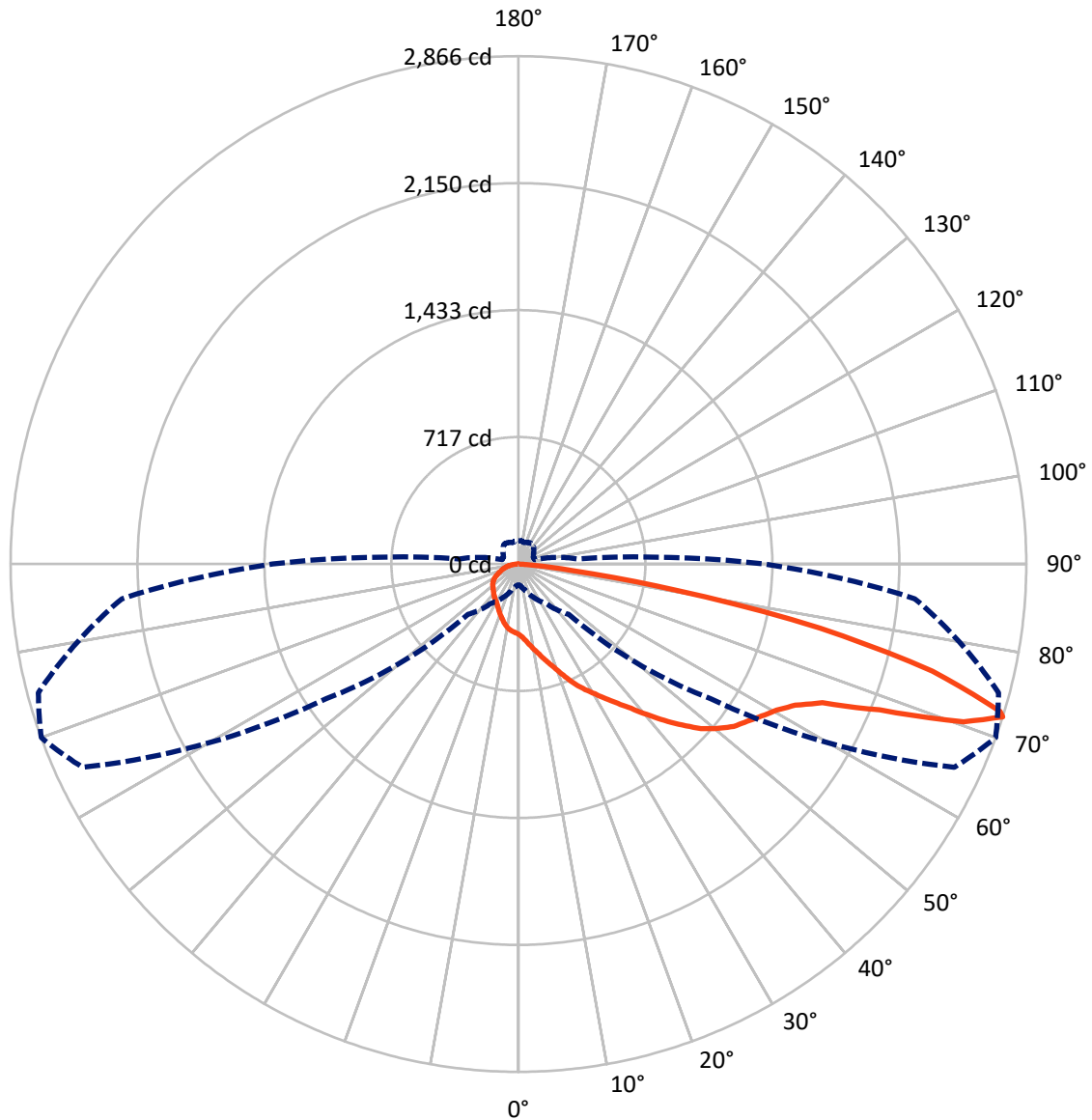
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	595.5	0.0	595.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	2609.5	0.0	2609.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	3205.0	0.0	3205.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	1.2
10°-20°	128.0	4.0
20°-30°	226.7	7.1
30°-40°	337.0	10.5
40°-50°	488.9	15.3
50°-60°	667.9	20.8
60°-70°	731.3	22.8
70°-80°	520.1	16.2
80°-90°	65.3	2.0
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°	3205.0	100.0
0°-180°	3205.0	100.0



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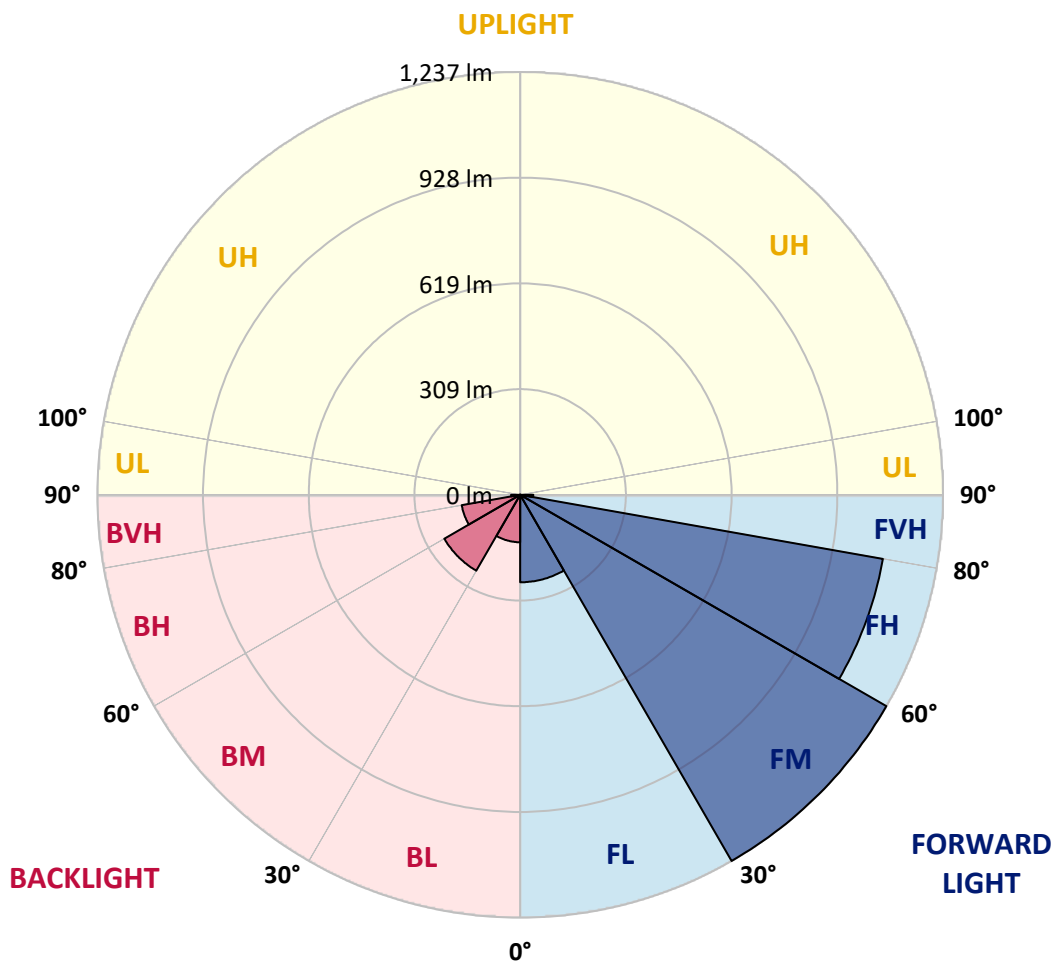
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.8	8.0			
FM	(30°-60°)	1237.3	38.6			
FH	(60°-80°)	1077.8	33.6			G1/1800
FVH	(80°-90°)	38.6	1.2			G1/100
BL	(0°-30°)	138.8	4.3	B1/500		
BM	(30°-60°)	256.4	8.0	B1/1000		
BH	(60°-80°)	173.6	5.4	B1/500		G1/500
BVH	(80°-90°)	26.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	396.9	396.9	396.9	396.9	396.9	396.9	396.9	396.9	396.9	396.9	396.9
2.5°	441.3	439.0	439.5	435.4	433.1	427.6	421.6	415.2	412.0	409.7	402.0
5°	484.4	484.4	486.2	483.0	474.3	465.1	454.6	440.4	434.5	426.2	410.7
7.5°	520.1	521.0	521.0	520.1	512.3	502.2	488.5	471.1	461.5	449.6	425.3
10°	538.4	540.7	542.5	543.9	543.0	537.0	521.4	503.6	490.3	474.7	442.2
12.5°	547.5	548.4	551.7	558.5	564.0	568.6	557.1	536.1	522.8	504.0	460.6
15°	557.6	557.6	560.8	569.5	580.0	592.4	591.0	574.5	560.4	537.0	483.9
17.5°	564.0	565.8	571.8	581.0	595.6	616.2	626.7	617.6	599.3	574.5	509.1
20°	560.4	561.7	573.6	591.5	610.3	636.8	663.4	663.4	646.0	617.6	537.0
22.5°	567.2	569.5	577.7	594.7	620.3	654.7	698.2	713.3	698.2	667.0	569.5
25°	593.8	592.9	599.7	606.6	628.6	671.1	727.9	766.8	753.1	718.8	601.1
27.5°	632.2	632.2	635.9	635.4	643.2	684.9	754.0	814.0	802.5	761.3	627.2
30°	676.6	677.6	676.6	676.2	674.8	703.6	777.4	856.1	850.1	809.4	651.0
32.5°	730.7	732.9	729.3	720.1	714.6	730.7	797.0	903.2	905.1	857.0	674.3
35°	798.4	802.1	788.3	775.1	761.3	768.7	819.9	947.7	966.0	911.0	702.7
37.5°	866.2	872.1	869.8	834.1	814.9	814.4	853.8	1003.0	1033.7	981.5	743.0
40°	923.4	928.4	931.2	898.7	872.1	871.2	903.7	1060.7	1117.0	1062.6	790.6
42.5°	961.4	966.0	974.2	955.0	930.3	941.7	958.6	1118.0	1206.8	1161.4	849.2
45°	1002.6	1006.3	1011.3	1000.3	987.5	1020.4	1028.2	1181.6	1296.5	1267.7	917.9
47.5°	1046.5	1050.2	1052.9	1044.7	1040.1	1086.4	1096.4	1246.6	1387.1	1377.5	984.7
50°	1095.1	1096.4	1099.2	1095.1	1096.4	1146.3	1152.8	1303.8	1459.0	1492.0	1054.3
52.5°	1178.4	1180.2	1181.1	1161.4	1154.6	1184.3	1198.1	1364.7	1522.2	1587.2	1115.7
55°	1244.3	1250.7	1279.6	1266.7	1250.3	1211.4	1235.6	1413.7	1567.1	1676.0	1179.8
57.5°	1190.3	1204.9	1276.8	1337.2	1383.5	1290.6	1280.0	1464.1	1618.8	1752.5	1254.4
60°	1033.3	1054.8	1159.2	1285.1	1434.8	1472.3	1371.1	1526.8	1675.1	1832.1	1334.5
62.5°	716.5	738.4	882.6	1083.6	1348.2	1576.2	1620.6	1638.0	1753.4	1913.6	1438.9
65°	343.4	365.8	484.8	696.8	1064.9	1509.4	1911.3	1868.8	1885.2	2017.1	1592.7
67.5°	218.4	230.3	277.0	379.5	619.4	1175.6	2015.7	2328.4	2197.5	2255.6	1899.0
70°	159.8	162.5	202.8	262.8	367.6	686.7	1779.9	2768.3	2665.8	2659.4	2268.4
72°	118.1	122.7	153.8	209.7	271.9	401.5	1324.4	2714.8	2866.3	2805.4	2246.4
72.5°	111.2	114.9	141.9	198.2	256.8	352.5	1186.6	2652.5	2841.6	2809.5	2204.3
75°	81.0	83.8	97.1	141.0	198.7	204.2	633.6	2035.9	2413.1	2682.3	1998.3
77.5°	55.9	57.7	64.6	86.5	136.0	138.3	268.7	1389.9	1741.5	2144.8	1536.8
80°	33.9	34.8	38.9	47.2	86.5	81.9	110.8	726.5	908.7	1166.0	712.8
82.5°	14.2	14.6	16.9	18.8	36.6	38.9	44.9	237.1	300.8	364.4	205.6
85°	0.0	0.0	0.5	0.5	0.9	4.1	6.4	29.3	44.4	53.1	37.1
87.5°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	1.4	1.8	1.8	2.7
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°	396.9	396.9	396.9	396.9	396.9	396.9	396.9	396.9	396.9	396.9	396.9
2.5°	398.3	396.5	391.0	386.4	382.7	376.8	376.3	371.7	371.7	370.4	369.4
5°	404.7	398.7	387.8	377.7	370.4	361.7	357.5	352.5	349.3	347.5	347.9
7.5°	412.9	402.9	384.1	367.2	353.4	342.4	336.0	331.9	329.6	328.7	328.7
10°	424.4	408.8	378.1	352.5	335.1	326.9	323.7	323.2	323.7	324.1	324.6
12.5°	437.2	412.9	367.2	335.1	321.4	318.2	320.0	324.1	327.8	329.2	329.2
15°	450.5	415.7	352.1	319.1	310.8	314.1	320.5	328.2	334.2	337.9	338.8
17.5°	464.2	416.1	336.0	304.4	301.7	309.9	321.4	333.7	343.4	349.3	350.2
20°	478.9	415.2	317.3	291.2	292.5	306.3	322.3	339.2	352.1	359.8	360.7
22.5°	494.9	411.6	298.9	278.3	284.8	302.6	321.4	341.1	354.8	364.0	365.8
25°	510.5	404.2	280.6	266.9	279.3	298.9	316.8	333.7	347.0	355.7	358.0
27.5°	518.7	388.7	263.2	258.2	275.1	293.5	306.3	317.7	325.0	330.5	332.8
30°	520.1	366.7	249.0	252.3	270.6	285.7	293.0	294.8	293.5	295.3	293.0
32.5°	517.3	342.9	237.6	247.7	263.2	274.7	276.5	271.0	262.8	251.3	251.8
35°	515.5	316.8	228.4	241.3	253.6	260.9	257.7	249.0	233.5	219.7	218.8
37.5°	518.7	293.0	220.7	233.0	241.3	244.5	239.9	228.4	214.7	202.8	201.4
40°	527.8	275.6	213.3	223.9	228.0	230.3	224.8	214.7	209.2	200.5	199.1
42.5°	545.7	263.7	206.5	213.8	215.6	217.9	212.4	205.6	210.6	208.8	208.8
45°	570.4	258.2	200.5	204.2	206.0	209.7	206.5	200.5	206.0	195.5	193.7
47.5°	602.5	260.0	196.4	194.6	200.1	206.5	202.8	195.5	193.7	174.9	171.7
50°	636.3	269.6	192.3	186.8	193.7	202.3	197.8	186.3	175.3	165.7	163.9
52.5°	676.2	285.7	188.6	178.1	186.3	197.8	194.6	182.2	170.8	163.9	162.5
55°	720.1	301.2	184.0	168.0	176.7	196.4	195.5	179.5	164.4	161.1	160.2
57.5°	769.6	314.1	178.5	156.6	167.1	192.3	191.4	173.1	162.5	159.8	159.3
60°	831.4	329.2	168.9	143.3	157.5	184.5	183.6	169.8	158.4	156.1	155.2
62.5°	915.6	357.1	152.4	130.9	147.4	170.8	176.3	163.4	152.4	152.0	152.0
65°	1054.3	411.1	135.5	120.4	136.0	157.5	166.6	156.1	147.0	149.2	149.2
67.5°	1316.6	483.9	118.1	110.3	125.0	144.7	158.4	148.8	141.0	145.6	145.6
70°	1519.0	456.9	104.4	100.7	114.0	133.2	147.9	141.0	133.7	141.5	140.5
72°	1385.8	334.7	95.2	92.9	104.8	123.6	138.7	133.7	125.9	132.3	130.5
72.5°	1330.4	304.0	92.5	90.6	102.1	121.8	136.9	131.8	123.6	130.0	127.3
75°	1160.5	256.4	80.6	79.7	90.6	109.4	125.0	122.2	114.0	117.7	114.9
77.5°	960.5	216.1	67.8	69.6	77.4	97.5	112.6	109.9	102.1	101.6	101.2
80°	450.5	120.4	55.9	57.2	65.0	83.3	97.1	95.2	87.9	87.0	85.6
82.5°	130.5	57.7	43.0	43.9	52.2	68.2	83.3	82.4	76.9	75.5	72.3
85°	24.3	18.8	23.3	27.5	38.0	56.8	76.0	74.2	65.9	60.0	55.4
87.5°	1.4	3.7	7.8	13.3	24.3	42.6	61.3	60.0	52.6	45.3	45.8
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)