

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: P401110

Luminaire Tested: **ENT-SA1B-735-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1B-735-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3159 lumens
Efficiency: N/A
Efficacy: 124.4 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

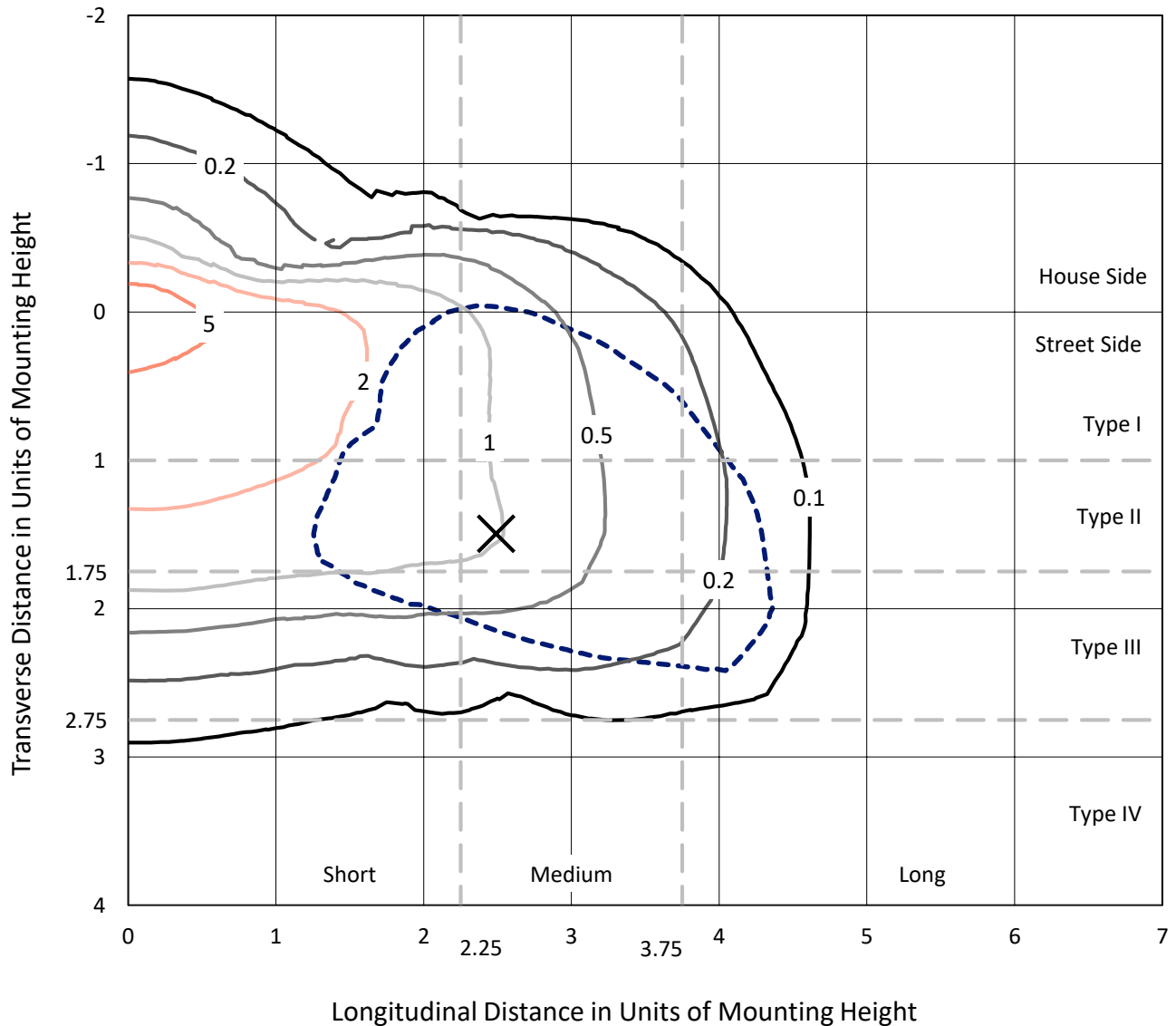
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

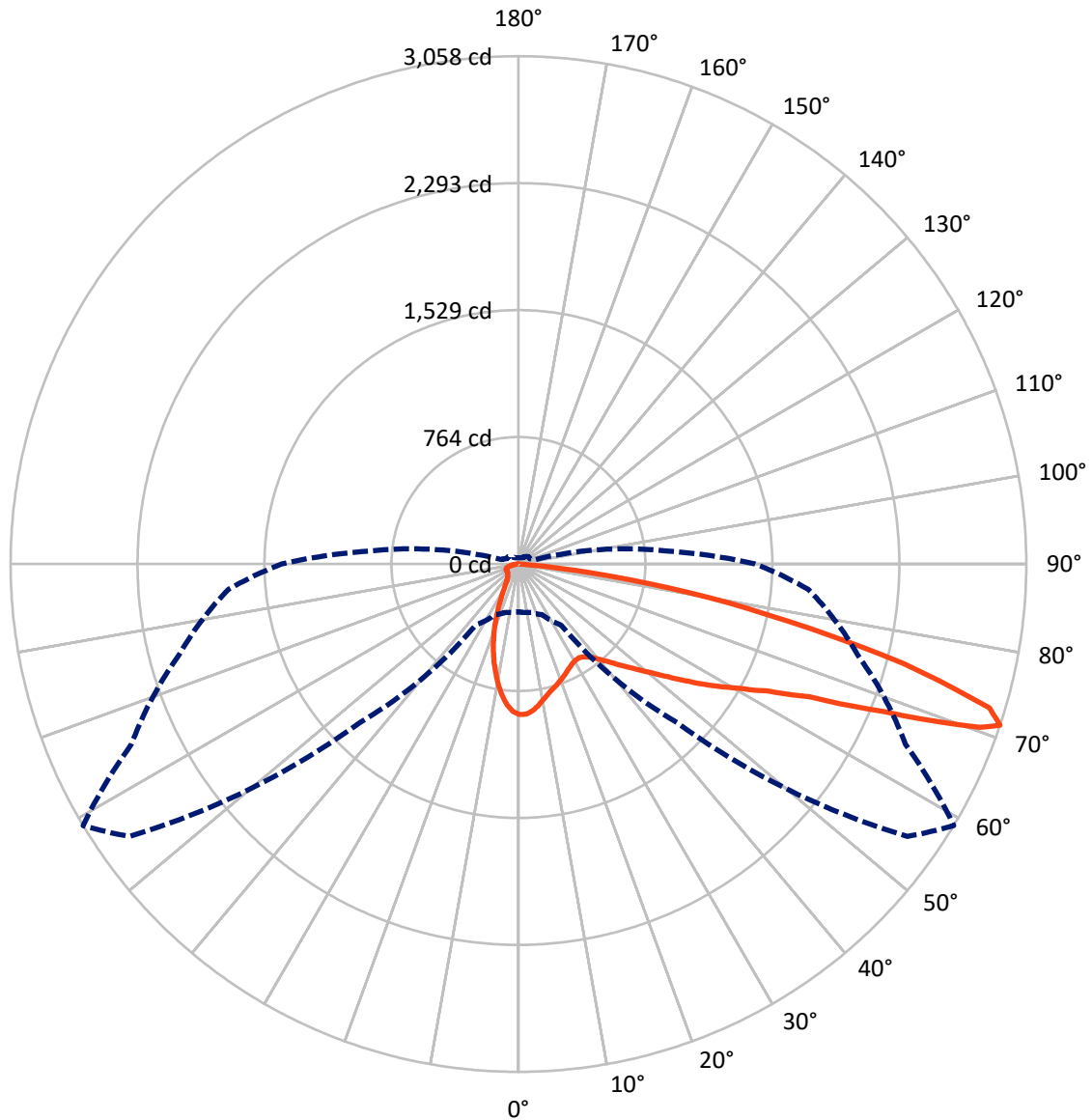
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.2	0.0	536.2
	% Fixture	17.0	0.0	17.0
Street Side	Lumens	2622.8	0.0	2622.8
	% Fixture	83.0	0.0	83.0
Total	Lumens	3159.0	0.0	3159.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	2.5
10°-20°	175.9	5.6
20°-30°	223.6	7.1
30°-40°	285.8	9.0
40°-50°	396.7	12.6
50°-60°	587.3	18.6
60°-70°	793.8	25.1
70°-80°	562.9	17.8
80°-90°	54.7	1.7
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°	3159.0	100.0
0°-180°	3159.0	100.0



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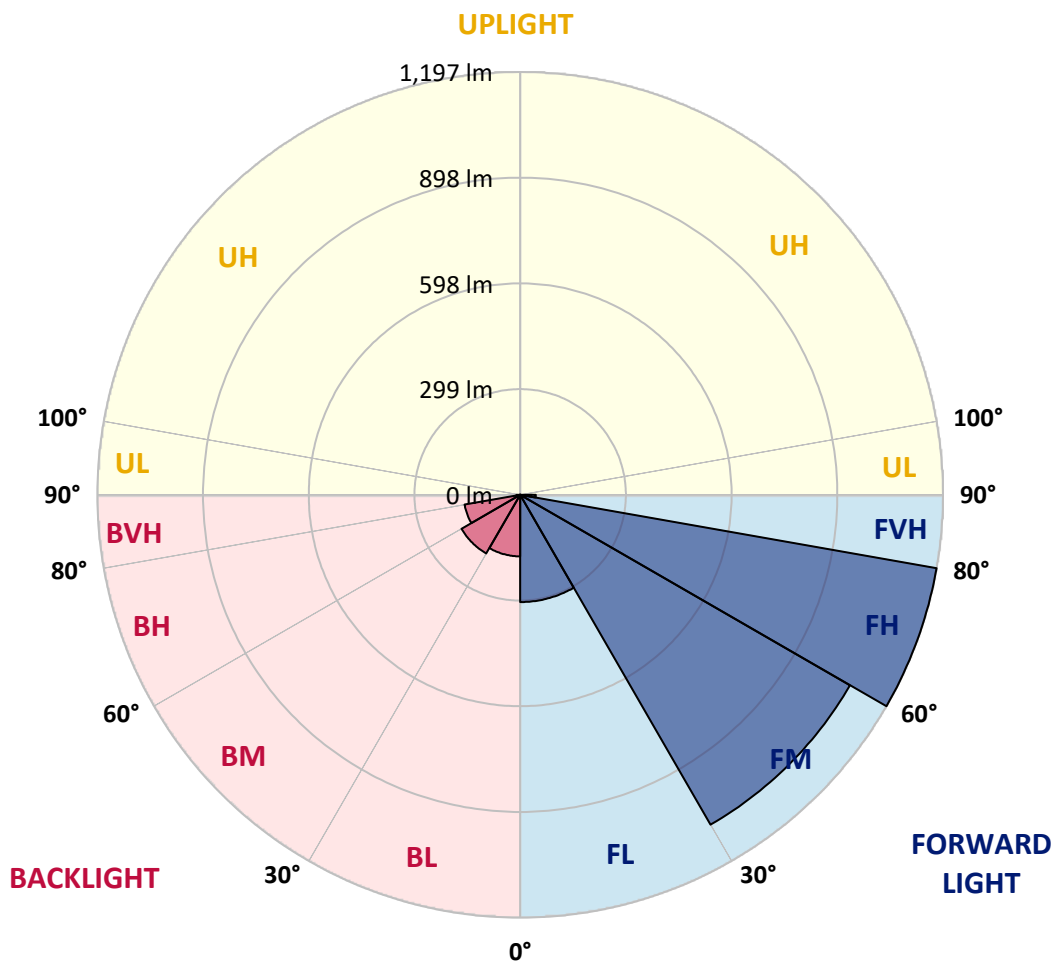
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.6	9.6			
FM	(30°-60°)	1078.0	34.1			
FH	(60°-80°)	1196.9	37.9			G1/1800
FVH	(80°-90°)	44.3	1.4			G1/100
BL	(0°-30°)	174.2	5.5	B1/500		
BM	(30°-60°)	191.8	6.1	B0/220		
BH	(60°-80°)	159.8	5.1	B1/500		G1/500
BVH	(80°-90°)	10.4	0.3			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°	59°	65°	75°	85°
0°	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3
2.5°	898.5	901.7	903.1	905.4	905.4	906.3	905.4	904.9	906.8	904.9	899.9
5°	858.7	860.1	864.2	868.8	873.4	883.0	885.7	887.5	891.7	892.6	887.5
7.5°	804.7	809.7	815.2	821.2	830.8	844.1	855.5	860.1	867.9	872.4	865.1
10°	758.9	761.7	764.4	774.9	790.0	808.4	820.3	829.0	841.3	847.3	840.4
12.5°	713.1	715.4	720.9	735.1	750.7	772.7	794.2	801.0	815.7	827.6	822.1
15°	677.9	677.9	682.0	697.6	714.1	743.4	768.5	779.1	797.4	814.3	807.4
17.5°	646.8	648.1	650.9	661.0	683.9	714.5	746.6	759.8	782.7	804.7	795.5
20°	629.4	628.5	630.3	635.3	653.6	686.1	724.6	740.2	768.5	798.7	784.1
22.5°	623.4	622.5	621.1	620.7	632.6	660.0	701.2	720.5	755.7	795.5	773.6
25°	628.0	628.0	623.9	616.1	621.6	640.4	680.2	700.8	741.5	793.2	764.0
27.5°	640.4	640.4	634.4	624.3	622.1	630.3	661.9	683.9	729.6	794.6	756.2
30°	657.3	656.8	650.9	642.2	635.3	632.6	653.2	673.3	721.4	800.6	752.5
32.5°	676.5	675.6	672.9	666.9	658.7	646.8	654.1	672.0	719.6	811.1	753.0
35°	699.4	698.0	699.4	696.2	688.4	675.6	671.0	685.2	728.7	830.8	760.8
37.5°	719.6	718.6	725.5	727.3	725.5	708.6	702.6	711.8	750.2	861.9	776.8
40°	736.5	737.4	749.8	763.0	765.8	751.1	747.0	754.8	785.0	899.9	805.6
42.5°	755.3	758.0	776.3	800.1	809.3	799.7	801.9	807.4	829.0	951.6	847.3
45°	773.6	779.5	804.7	835.4	858.7	858.7	866.5	872.0	885.7	1016.6	908.1
47.5°	805.6	809.7	837.2	874.3	910.0	921.4	942.9	941.1	951.6	1088.0	979.5
50°	847.3	854.1	882.0	920.5	965.8	998.3	1023.0	1026.7	1030.8	1161.3	1064.2
52.5°	904.9	913.2	936.1	971.8	1025.3	1078.4	1130.6	1128.3	1122.8	1240.9	1161.3
55°	963.1	971.8	993.3	1022.1	1085.3	1166.8	1251.9	1248.7	1223.5	1322.4	1251.0
57.5°	1022.1	1029.4	1051.9	1077.0	1151.7	1271.1	1380.1	1382.4	1330.6	1413.0	1339.8
60°	1046.8	1057.8	1113.2	1161.7	1255.1	1386.9	1511.0	1516.9	1441.9	1504.6	1437.7
62.5°	935.1	948.4	1040.0	1170.9	1397.0	1610.3	1681.3	1684.9	1576.0	1605.7	1544.8
65°	692.1	691.6	786.4	982.3	1368.6	1910.1	1984.7	1927.1	1742.6	1739.8	1686.3
67.5°	396.4	408.3	438.5	585.9	1042.7	1965.5	2524.9	2374.3	2037.8	1948.6	1874.9
70°	319.5	316.8	325.9	365.3	568.5	1616.3	2876.8	2945.5	2457.1	2118.8	1832.3
71°	287.9	292.0	301.2	336.9	448.6	1348.5	2859.5	3057.7	2571.5	2114.3	1751.3
72.5°	247.6	248.5	269.6	311.7	368.5	951.2	2643.9	2965.2	2691.5	2054.3	1632.3
75°	168.4	170.7	203.7	250.8	336.4	451.8	1891.8	2398.5	2449.8	1919.7	1348.0
77.5°	96.6	98.4	122.2	183.6	286.5	318.6	1161.3	1657.4	1761.4	1403.9	722.8
80°	49.9	52.2	67.7	115.8	218.8	257.7	666.0	1042.3	1002.0	485.2	167.5
82.5°	13.3	15.1	19.7	41.7	105.7	168.0	295.2	431.2	308.1	100.7	60.9
85°	0.0	0.0	0.0	0.5	0.9	23.3	62.3	77.4	43.0	19.7	16.5
87.5°	0.0	0.0	0.0	0.0	0.5	0.9	0.9	0.9	0.9	1.4	1.8
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°	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3	906.3
2.5°	899.0	899.0	896.2	892.1	887.5	877.0	878.8	870.6	871.5	870.6	870.6
5°	883.4	880.7	873.8	861.0	846.8	828.0	825.3	810.2	801.5	798.7	801.9
7.5°	861.9	854.1	836.7	814.3	787.3	763.0	740.6	720.5	705.4	699.0	696.2
10°	833.5	823.9	795.5	756.2	719.1	681.1	645.9	623.0	592.8	583.6	580.9
12.5°	810.2	793.7	751.1	696.2	638.5	588.2	540.6	492.5	463.7	443.1	439.9
15°	790.0	766.7	705.8	634.9	563.0	493.4	428.9	364.4	323.6	306.2	293.9
17.5°	772.2	742.0	660.5	568.5	479.7	387.7	309.0	247.2	221.5	208.3	208.7
20°	753.9	715.4	613.4	502.1	397.3	295.2	218.3	189.5	176.7	173.9	172.6
22.5°	736.5	685.2	563.5	436.7	313.1	217.0	175.8	161.6	158.4	158.4	158.4
25°	716.8	654.6	513.1	369.8	237.1	171.2	151.1	146.0	146.9	148.8	149.2
27.5°	700.8	628.0	463.2	292.5	184.0	145.6	135.0	134.1	137.8	141.9	141.9
30°	686.6	603.7	409.2	228.4	146.5	127.7	124.0	125.4	129.1	132.7	134.1
32.5°	677.0	581.8	360.7	177.6	125.0	115.3	114.4	116.3	119.9	121.8	123.1
35°	672.9	565.8	308.5	143.3	111.2	106.2	105.7	107.1	108.9	109.4	108.9
37.5°	677.4	554.8	255.0	121.3	102.5	99.8	99.3	99.3	99.3	99.8	99.3
40°	690.7	550.7	206.9	107.1	97.0	94.8	93.4	92.0	91.1	91.1	90.6
42.5°	718.6	557.1	166.2	98.9	92.9	90.2	87.4	85.6	84.2	83.8	83.8
45°	763.5	574.9	138.2	93.4	89.3	85.1	81.9	80.1	78.7	79.2	78.7
47.5°	825.3	604.7	122.2	89.7	85.6	80.1	76.9	75.1	74.6	76.0	76.4
50°	895.3	646.8	112.6	87.0	82.8	76.0	72.3	70.9	71.4	74.2	74.6
52.5°	977.7	701.2	108.5	85.1	80.6	72.3	69.1	67.7	68.7	71.9	72.3
55°	1066.5	763.5	114.4	86.1	78.3	70.0	66.4	64.5	65.9	68.7	69.1
57.5°	1156.7	840.4	134.6	86.5	75.5	68.2	63.6	60.9	61.8	64.1	64.5
60°	1247.8	916.8	169.4	87.0	74.6	66.4	61.3	57.2	57.7	59.0	59.5
62.5°	1354.9	1013.9	215.1	88.8	75.5	65.0	57.2	52.6	52.6	53.6	53.6
65°	1517.4	1158.5	245.3	87.9	77.8	63.6	53.1	48.5	48.1	48.5	48.5
67.5°	1634.1	1177.7	171.2	82.8	79.2	64.1	50.8	44.9	43.9	43.5	43.5
70°	1510.5	991.0	113.1	78.3	76.9	65.0	49.0	42.6	40.7	39.4	38.9
71°	1424.9	893.0	104.8	76.4	75.1	64.1	48.1	41.2	39.4	38.4	38.0
72.5°	1298.1	796.9	96.6	73.7	70.9	62.3	46.7	39.8	37.5	36.2	35.7
75°	1025.8	611.1	84.7	67.7	61.3	51.3	43.0	37.1	34.8	33.0	32.5
77.5°	463.7	243.1	65.0	58.6	49.9	40.7	37.5	34.3	31.6	30.2	29.8
80°	129.5	92.5	47.6	46.2	37.5	31.6	30.2	29.3	28.4	26.5	26.5
82.5°	60.0	54.0	33.9	32.5	25.6	22.4	23.8	24.3	24.3	22.4	22.0
85°	16.5	17.9	15.6	17.4	16.5	15.1	17.4	18.8	19.7	17.9	16.5
87.5°	1.4	3.2	4.1	6.9	8.2	8.7	11.0	13.3	13.7	11.0	11.4
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)