

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: P401074

Luminaire Tested: **ENT-SA1B-727-U-SL3**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401074  
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-727-U-SL3  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 2700K, 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: 2813 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

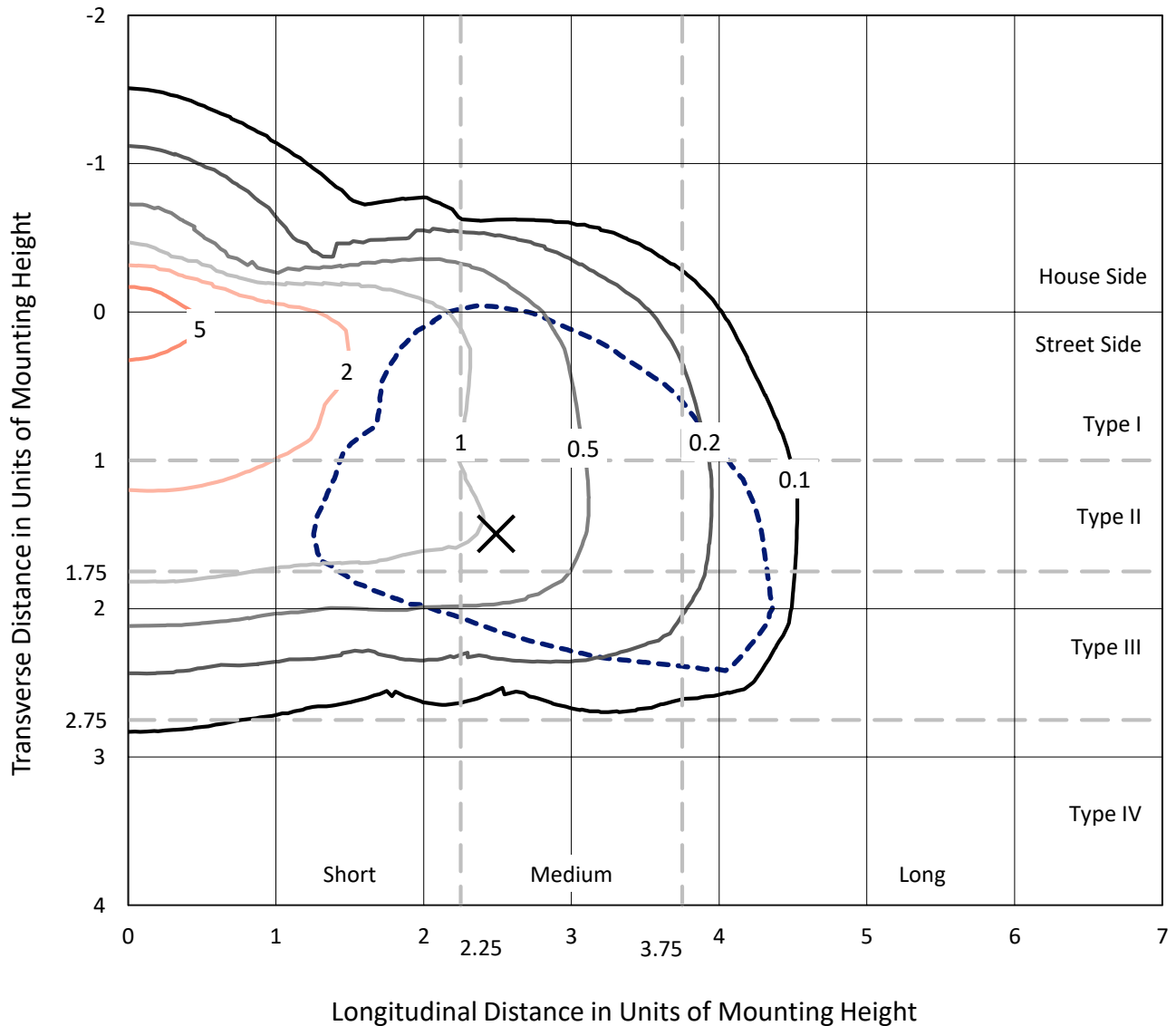


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### Iso-Footcandle Lines of Horizontal Illumination

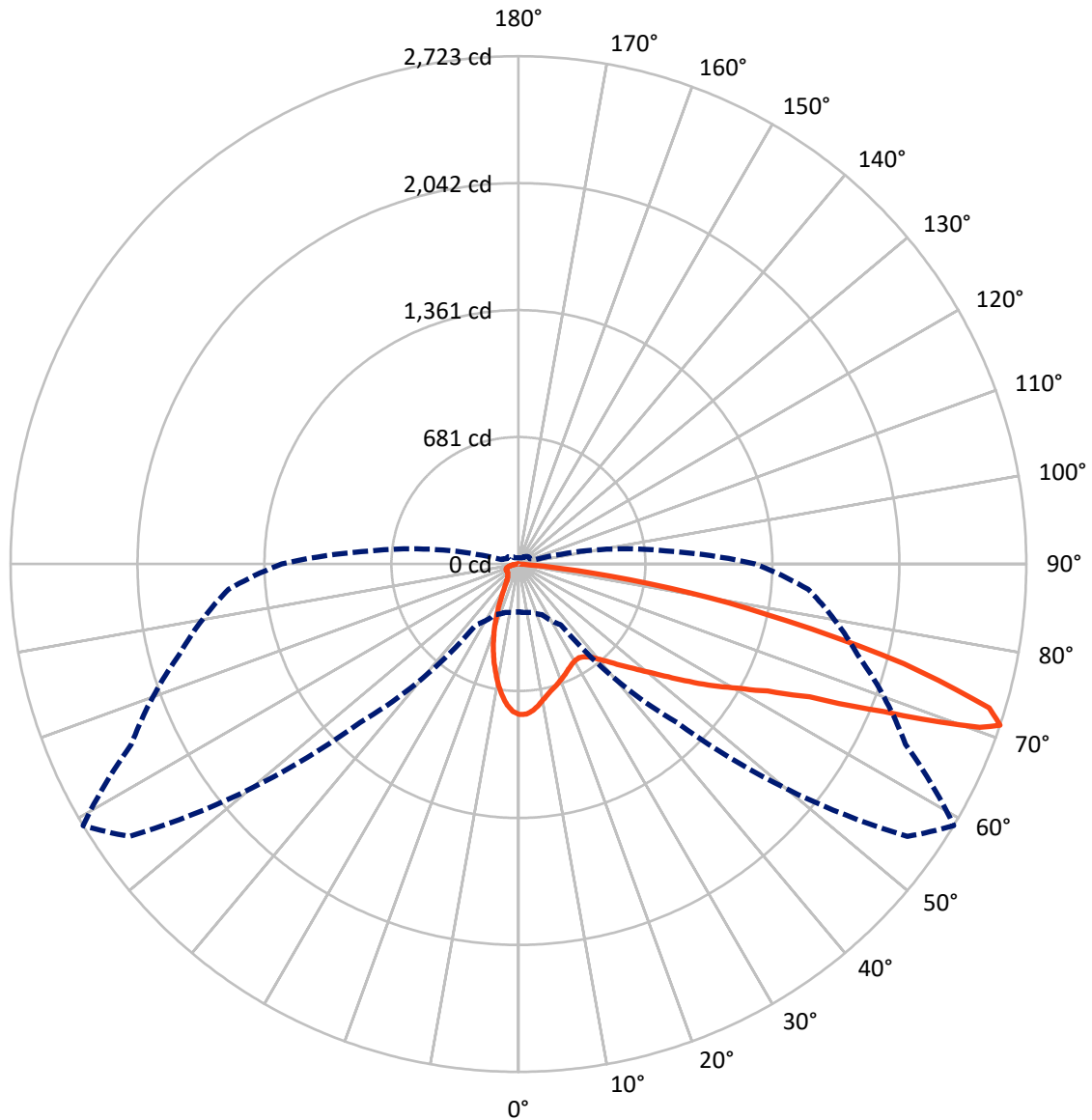
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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
<b>House Side</b>	Lumens	477.4	0.0	477.4
	% Fixture	17.0	0.0	17.0
<b>Street Side</b>	Lumens	2335.6	0.0	2335.6
	% Fixture	83.0	0.0	83.0
<b>Total</b>	Lumens	2813.0	0.0	2813.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	2.5
10°-20°	156.7	5.6
20°-30°	199.1	7.1
30°-40°	254.5	9.0
40°-50°	353.2	12.6
50°-60°	523.0	18.6
60°-70°	706.9	25.1
70°-80°	501.3	17.8
80°-90°	48.7	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°	2813.0	100.0
0°-180°	2813.0	100.0



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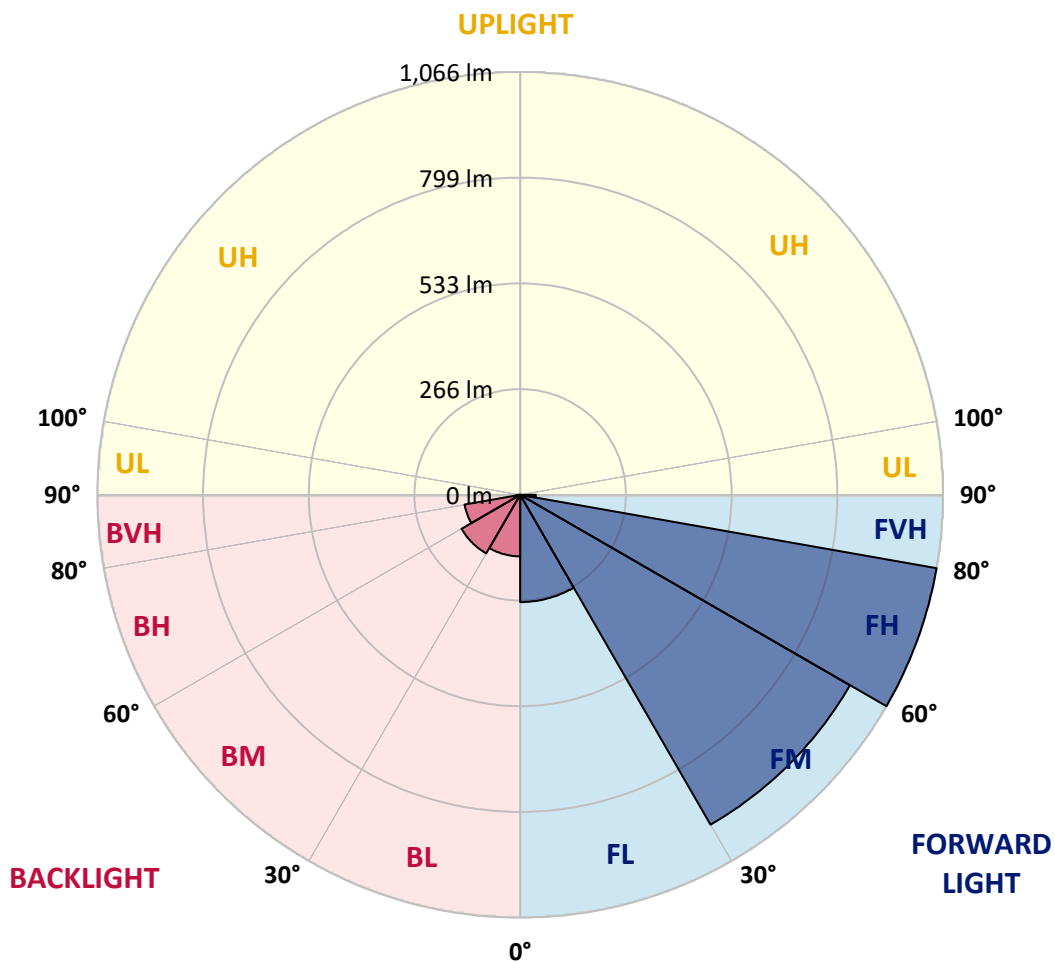
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.4	9.6			
FM	(30°-60°)	960.0	34.1			
FH	(60°-80°)	1065.8	37.9			G1/1800
FVH	(80°-90°)	39.4	1.4			G1/100
BL	(0°-30°)	155.1	5.5	B1/500		
BM	(30°-60°)	170.8	6.1	B0/220		
BH	(60°-80°)	142.3	5.1	B1/500		G1/500
BVH	(80°-90°)	9.3	0.3			G0/10
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°	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0
2.5°	800.1	803.0	804.2	806.2	806.2	807.0	806.2	805.8	807.5	805.8	801.3
5°	764.7	765.9	769.5	773.6	777.7	786.3	788.7	790.3	794.0	794.8	790.3
7.5°	716.6	721.0	725.9	731.2	739.8	751.6	761.8	765.9	772.8	776.9	770.4
10°	675.8	678.2	680.7	690.1	703.5	719.8	730.4	738.2	749.2	754.5	748.3
12.5°	635.0	637.1	642.0	654.6	668.5	688.0	707.2	713.3	726.3	736.9	732.0
15°	603.7	603.7	607.3	621.2	635.9	661.9	684.4	693.7	710.0	725.1	719.0
17.5°	575.9	577.2	579.6	588.6	609.0	636.3	664.8	676.6	697.0	716.6	708.4
20°	560.4	559.6	561.3	565.7	582.0	611.0	645.2	659.1	684.4	711.3	698.2
22.5°	555.1	554.3	553.1	552.7	563.3	587.8	624.4	641.6	672.9	708.4	688.8
25°	559.2	559.2	555.6	548.6	553.5	570.2	605.7	624.0	660.3	706.4	680.3
27.5°	570.2	570.2	564.9	556.0	553.9	561.3	589.4	609.0	649.7	707.6	673.4
30°	585.3	584.9	579.6	571.9	565.7	563.3	581.6	599.6	642.4	712.9	670.1
32.5°	602.4	601.6	599.2	593.9	586.5	575.9	582.5	598.4	640.7	722.3	670.5
35°	622.8	621.6	622.8	620.0	613.0	601.6	597.5	610.2	648.9	739.8	677.4
37.5°	640.7	639.9	646.0	647.7	646.0	631.0	625.7	633.8	668.1	767.5	691.7
40°	655.8	656.6	667.6	679.5	681.9	668.9	665.2	672.1	699.0	801.3	717.4
42.5°	672.5	675.0	691.3	712.5	720.6	712.1	714.1	719.0	738.2	847.4	754.5
45°	688.8	694.1	716.6	743.9	764.7	764.7	771.6	776.5	788.7	905.3	808.7
47.5°	717.4	721.0	745.5	778.5	810.3	820.5	839.7	838.0	847.4	968.9	872.3
50°	754.5	760.6	785.4	819.7	860.0	889.0	911.0	914.2	917.9	1034.1	947.7
52.5°	805.8	813.2	833.5	865.3	913.0	960.3	1006.8	1004.7	999.8	1105.0	1034.1
55°	857.6	865.3	884.5	910.2	966.4	1039.0	1114.8	1111.9	1089.5	1177.5	1114.0
57.5°	910.2	916.7	936.7	959.1	1025.5	1131.9	1228.9	1230.9	1184.9	1258.3	1193.0
60°	932.2	942.0	991.3	1034.5	1117.6	1235.0	1345.5	1350.8	1283.9	1339.8	1280.3
62.5°	832.7	844.5	926.1	1042.6	1244.0	1433.9	1497.1	1500.4	1403.4	1429.9	1375.6
65°	616.3	615.9	700.3	874.7	1218.7	1700.9	1767.3	1716.0	1551.7	1549.3	1501.6
67.5°	353.0	363.6	390.5	521.7	928.5	1750.2	2248.3	2114.2	1814.6	1735.1	1669.5
70°	284.5	282.1	290.2	325.3	506.2	1439.2	2561.8	2622.9	2188.0	1886.8	1631.6
71°	256.4	260.0	268.2	300.0	399.4	1200.8	2546.3	2722.8	2289.9	1882.7	1559.5
72.5°	220.5	221.3	240.1	277.6	328.1	847.0	2354.3	2640.4	2396.7	1829.3	1453.5
75°	150.0	152.0	181.4	223.4	299.6	402.3	1684.6	2135.8	2181.5	1709.5	1200.4
77.5°	86.0	87.6	108.8	163.4	255.2	283.7	1034.1	1475.9	1568.4	1250.1	643.6
80°	44.4	46.5	60.3	103.1	194.8	229.5	593.1	928.1	892.2	432.1	149.2
82.5°	11.8	13.5	17.5	37.1	94.2	149.6	262.9	384.0	274.3	89.7	54.2
85°	0.0	0.0	0.0	0.4	0.8	20.8	55.4	68.9	38.3	17.5	14.7
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.8	0.8	1.2	1.6
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°	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0
2.5°	800.5	800.5	798.1	794.4	790.3	781.0	782.6	775.3	776.1	775.3	775.3
5°	786.7	784.2	778.1	766.7	754.1	737.3	734.9	721.4	713.7	711.3	714.1
7.5°	767.5	760.6	745.1	725.1	701.1	679.5	659.5	641.6	628.1	622.4	620.0
10°	742.2	733.7	708.4	673.4	640.3	606.5	575.1	554.7	527.8	519.7	517.2
12.5°	721.4	706.8	668.9	620.0	568.6	523.8	481.4	438.6	412.9	394.6	391.7
15°	703.5	682.7	628.5	565.3	501.3	439.4	381.9	324.4	288.2	272.7	261.7
17.5°	687.6	660.7	588.2	506.2	427.2	345.2	275.1	220.1	197.3	185.5	185.9
20°	671.3	637.1	546.2	447.1	353.8	262.9	194.4	168.7	157.3	154.9	153.7
22.5°	655.8	610.2	501.8	388.8	278.8	193.2	156.5	143.9	141.0	141.0	141.0
25°	638.3	582.9	456.9	329.3	211.1	152.4	134.5	130.0	130.8	132.5	132.9
27.5°	624.0	559.2	412.5	260.5	163.9	129.6	120.2	119.4	122.7	126.4	126.4
30°	611.4	537.6	364.4	203.4	130.4	113.7	110.5	111.7	114.9	118.2	119.4
32.5°	602.8	518.1	321.2	158.1	111.3	102.7	101.9	103.5	106.8	108.4	109.6
35°	599.2	503.8	274.7	127.6	99.0	94.6	94.2	95.4	97.0	97.4	97.0
37.5°	603.2	494.0	227.0	108.0	91.3	88.9	88.4	88.4	88.4	88.9	88.4
40°	615.1	490.3	184.2	95.4	86.4	84.4	83.1	81.9	81.1	81.1	80.7
42.5°	639.9	496.0	148.0	88.0	82.7	80.3	77.9	76.2	75.0	74.6	74.6
45°	679.9	511.9	123.1	83.1	79.5	75.8	73.0	71.3	70.1	70.5	70.1
47.5°	734.9	538.4	108.8	79.9	76.2	71.3	68.5	66.8	66.4	67.7	68.1
50°	797.3	575.9	100.3	77.4	73.8	67.7	64.4	63.2	63.6	66.0	66.4
52.5°	870.6	624.4	96.6	75.8	71.7	64.4	61.5	60.3	61.1	64.0	64.4
55°	949.7	679.9	101.9	76.6	69.7	62.4	59.1	57.5	58.7	61.1	61.5
57.5°	1030.0	748.3	119.8	77.0	67.3	60.7	56.7	54.2	55.0	57.1	57.5
60°	1111.1	816.4	150.8	77.4	66.4	59.1	54.6	50.9	51.4	52.6	53.0
62.5°	1206.5	902.8	191.6	79.1	67.3	57.9	50.9	46.9	46.9	47.7	47.7
65°	1351.2	1031.6	218.5	78.3	69.3	56.7	47.3	43.2	42.8	43.2	43.2
67.5°	1455.1	1048.7	152.4	73.8	70.5	57.1	45.2	39.9	39.1	38.7	38.7
70°	1345.1	882.4	100.7	69.7	68.5	57.9	43.6	37.9	36.3	35.1	34.6
71°	1268.9	795.2	93.3	68.1	66.8	57.1	42.8	36.7	35.1	34.2	33.8
72.5°	1155.9	709.6	86.0	65.6	63.2	55.4	41.6	35.5	33.4	32.2	31.8
75°	913.4	544.1	75.4	60.3	54.6	45.7	38.3	33.0	31.0	29.3	28.9
77.5°	412.9	216.4	57.9	52.2	44.4	36.3	33.4	30.6	28.1	26.9	26.5
80°	115.4	82.3	42.4	41.2	33.4	28.1	26.9	26.1	25.3	23.6	23.6
82.5°	53.4	48.1	30.2	28.9	22.8	20.0	21.2	21.6	21.6	20.0	19.6
85°	14.7	15.9	13.9	15.5	14.7	13.5	15.5	16.7	17.5	15.9	14.7
87.5°	1.2	2.9	3.7	6.1	7.3	7.7	9.8	11.8	12.2	9.8	10.2
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)