

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: P401108

Luminaire Tested: **ENT-SA1B-735-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1B-735-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3181 lumens
Efficiency: N/A
Efficacy: 125.2 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

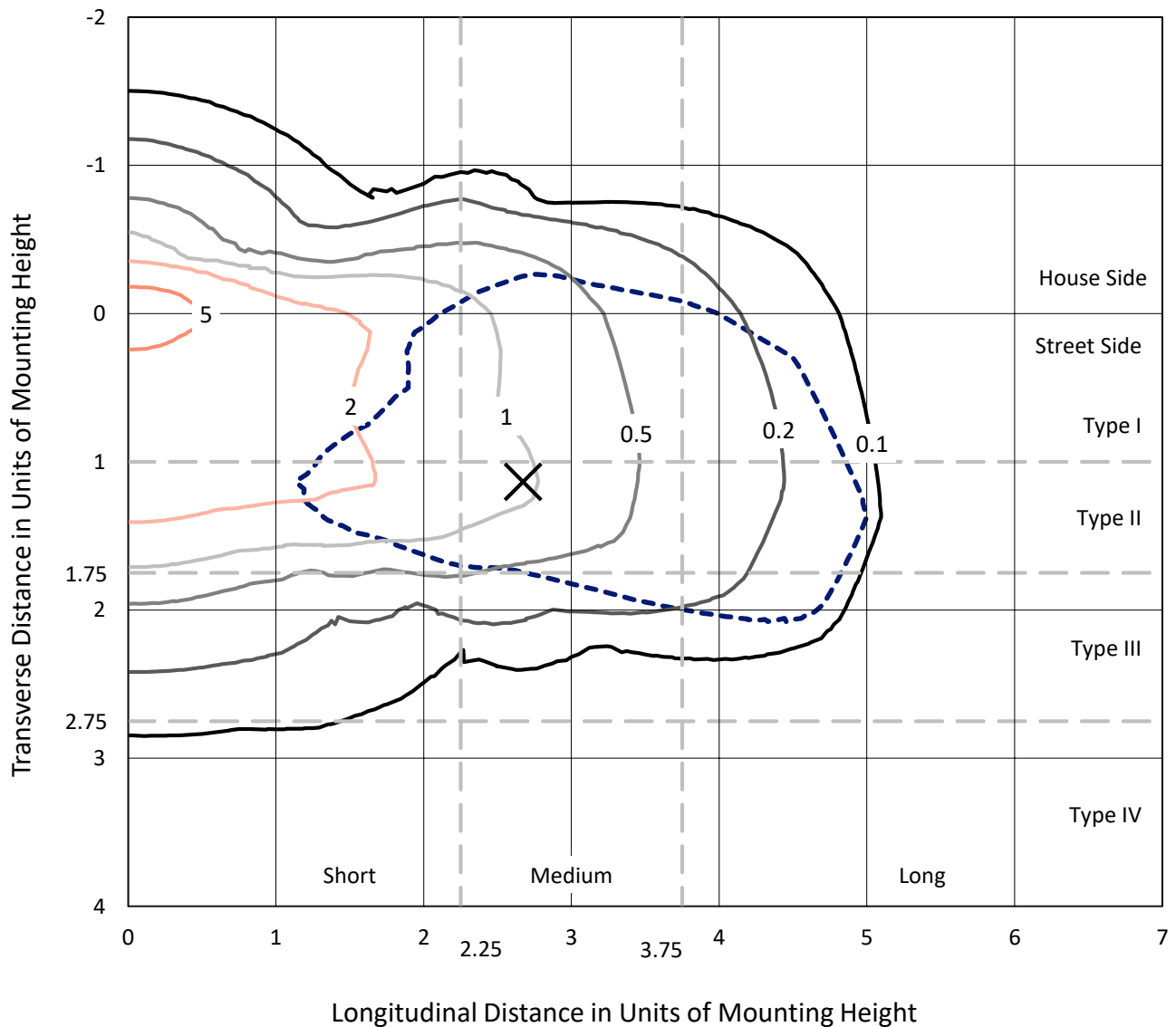
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

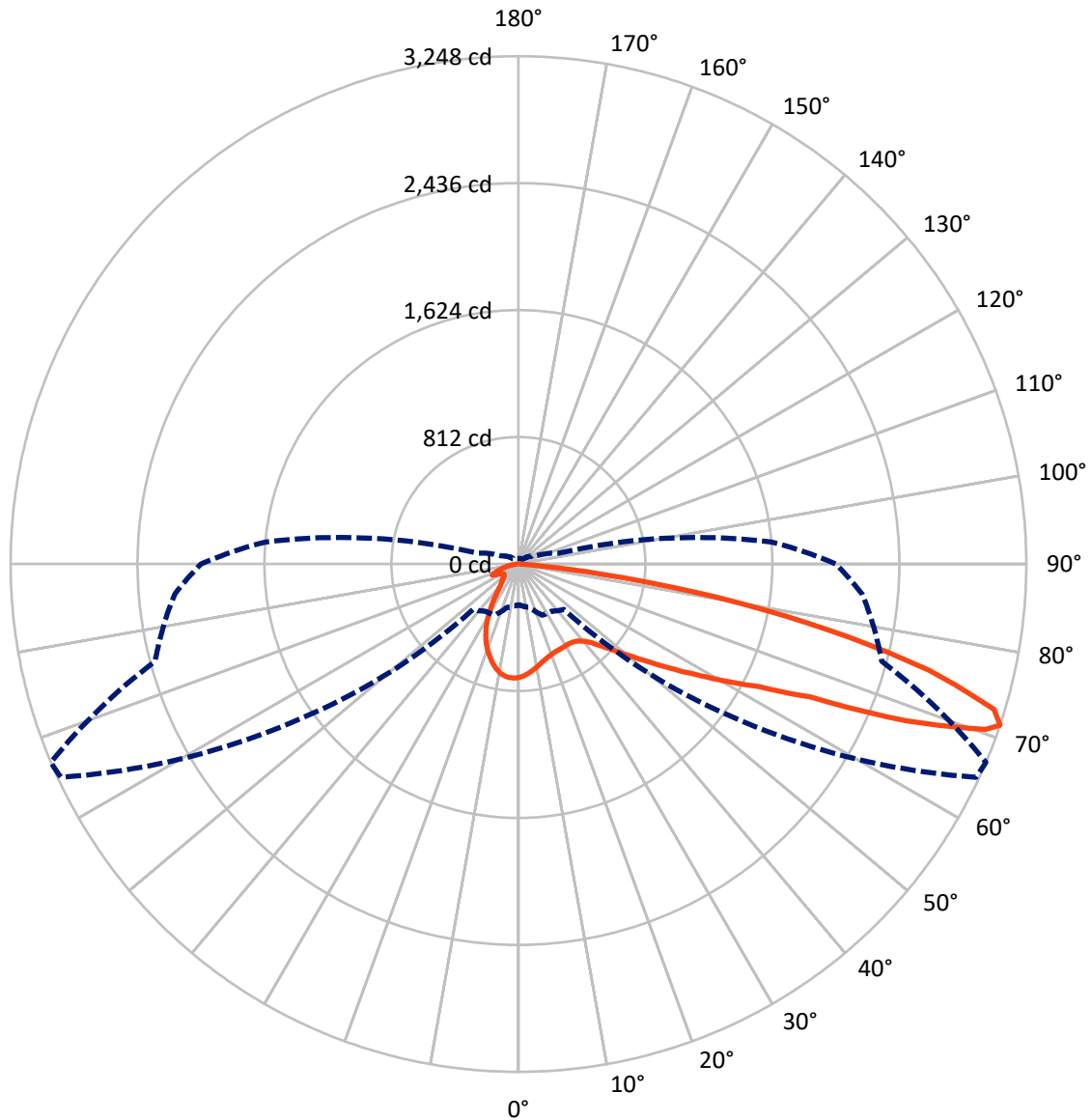
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	651.7	0.0	651.7
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	2529.3	0.0	2529.3
	% Fixture	79.5	0.0	79.5
Total	Lumens	3181.0	0.0	3181.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	2.0
10°-20°	158.0	5.0
20°-30°	213.3	6.7
30°-40°	280.9	8.8
40°-50°	400.1	12.6
50°-60°	611.2	19.2
60°-70°	763.1	24.0
70°-80°	616.0	19.4
80°-90°	74.3	2.3
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°	3181.0	100.0
0°-180°	3181.0	100.0



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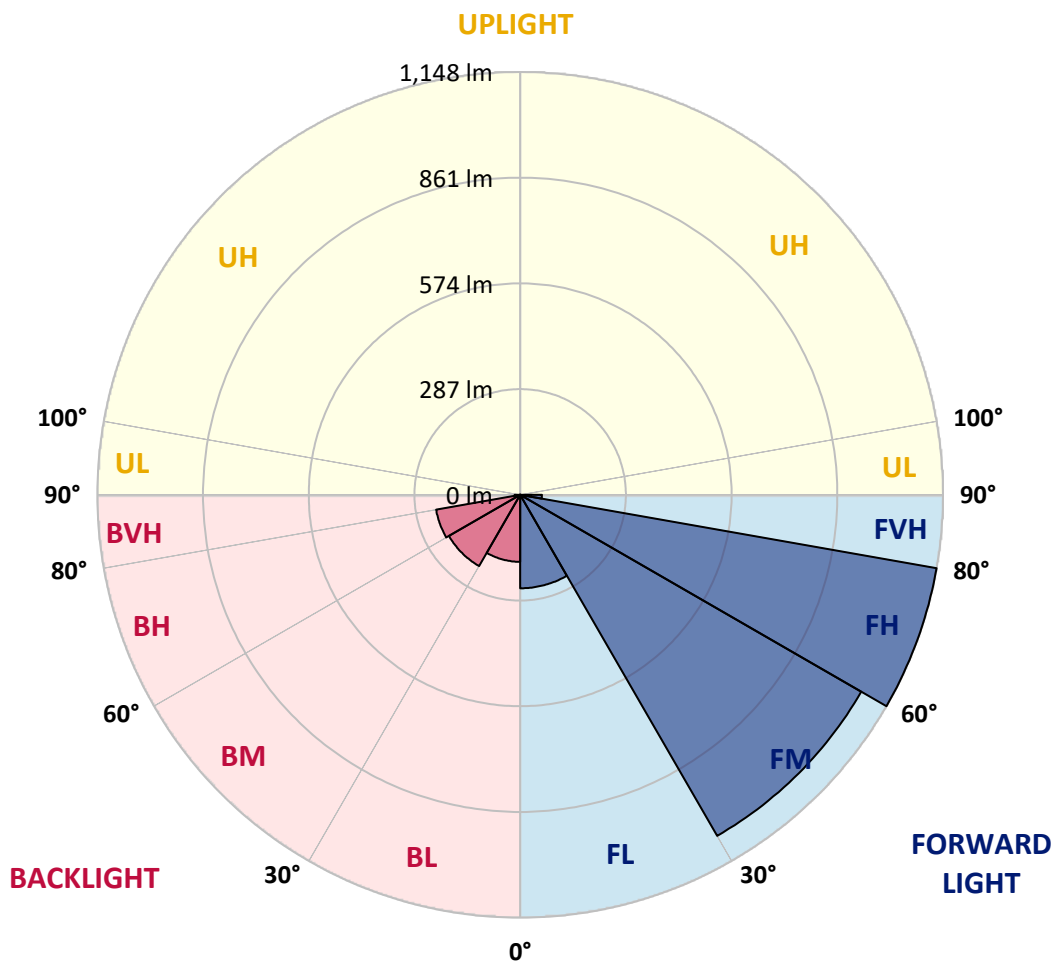
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.7	8.0			
FM	(30°-60°)	1068.9	33.6			
FH	(60°-80°)	1147.6	36.1			G1/1800
FVH	(80°-90°)	59.2	1.9			G1/100
BL	(0°-30°)	181.8	5.7	B1/500		
BM	(30°-60°)	223.3	7.0	B1/1000		
BH	(60°-80°)	231.6	7.3	B1/500		G1/500
BVH	(80°-90°)	15.0	0.5			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°	67°	75°	85°
0°	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4
2.5°	684.1	687.3	687.8	694.2	696.5	703.8	708.0	714.8	715.7	719.9	722.6
5°	639.7	640.2	642.9	648.4	657.1	670.4	680.5	697.4	700.6	712.5	723.1
7.5°	599.9	602.2	606.7	615.0	625.1	640.6	656.2	679.6	684.1	703.4	723.5
10°	572.9	575.2	578.8	588.0	598.0	615.5	634.2	661.2	666.3	692.8	722.1
12.5°	551.3	553.6	556.4	566.5	577.4	594.8	614.1	644.3	649.3	680.0	718.9
15°	537.1	537.6	541.3	549.5	561.9	578.8	598.0	629.2	635.1	669.9	718.0
17.5°	528.4	529.4	532.6	539.0	550.0	566.5	585.2	616.8	623.7	661.7	718.5
20°	528.9	529.8	531.7	533.9	541.7	555.9	575.6	607.7	614.5	656.7	721.7
22.5°	538.5	539.0	539.4	536.2	539.0	549.1	568.3	601.3	608.6	654.4	725.4
25°	556.8	556.8	555.9	548.6	542.6	546.8	564.2	599.0	606.3	652.5	729.0
27.5°	582.0	583.9	579.3	570.6	556.8	550.0	563.2	597.1	604.5	652.5	730.8
30°	616.4	617.3	615.5	604.0	581.6	562.8	566.0	595.8	603.1	651.6	731.3
32.5°	651.2	653.9	656.2	646.1	619.1	585.7	577.0	597.6	604.0	651.2	729.9
35°	686.4	688.3	699.3	697.4	668.1	620.0	594.8	604.9	610.4	653.5	730.8
37.5°	716.7	720.8	736.8	749.2	726.3	666.7	625.5	620.9	624.2	664.9	735.9
40°	749.2	755.1	778.9	802.3	792.2	725.4	669.0	649.8	648.9	686.0	748.2
42.5°	785.8	792.7	823.3	857.2	860.4	800.0	727.2	690.6	689.6	722.1	775.3
45°	828.8	835.3	876.9	917.2	936.9	883.3	798.6	748.2	748.7	772.5	818.3
47.5°	882.0	892.0	932.3	983.6	1018.9	977.2	885.2	828.8	825.2	848.5	888.8
50°	956.6	964.8	998.3	1048.2	1110.0	1090.8	994.2	925.9	923.2	934.2	983.2
52.5°	1034.9	1037.7	1053.7	1105.4	1209.4	1228.6	1128.3	1046.4	1035.8	1041.8	1100.4
55°	1039.5	1045.4	1056.0	1121.5	1298.7	1393.9	1276.2	1188.3	1174.6	1170.5	1233.6
57.5°	944.2	953.9	967.6	1052.3	1302.3	1584.9	1486.4	1354.1	1329.4	1308.7	1376.1
60°	742.3	754.7	779.8	883.8	1209.4	1693.9	1837.2	1540.0	1518.0	1448.0	1515.3
62.5°	536.7	541.7	566.0	612.7	959.8	1700.3	2202.6	1782.7	1728.2	1583.5	1635.2
65°	432.3	440.5	447.9	447.4	568.3	1507.9	2445.3	2214.5	2050.1	1735.1	1767.1
67.5°	356.3	359.0	376.9	408.0	386.5	931.4	2469.6	2845.5	2678.9	1939.3	1923.7
70°	297.7	298.6	316.4	372.3	370.0	480.8	2070.7	3208.7	3168.4	2274.5	2168.7
71°	260.6	268.3	288.0	360.4	368.2	410.8	1759.3	3227.9	3248.1	2405.9	2206.7
72.5°	205.2	205.2	233.1	330.6	371.4	379.2	1296.4	3123.0	3181.2	2555.2	2140.8
75°	120.4	119.5	134.6	230.3	379.6	377.8	708.0	2595.5	2713.2	2582.2	1981.4
77.5°	67.8	69.1	77.4	128.2	301.3	362.7	406.6	1889.9	2028.6	2160.0	1675.5
80°	31.1	33.0	38.9	62.3	177.7	313.2	290.3	1227.2	1279.9	1298.2	791.8
82.5°	8.2	9.2	11.9	23.8	68.7	213.4	214.8	513.8	530.7	306.8	169.9
85°	0.0	0.0	0.0	0.0	0.9	26.1	60.9	92.5	76.9	40.8	34.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	1.4	1.8	1.8	1.8	2.3
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°	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4	725.4
2.5°	724.9	726.7	729.9	729.5	728.6	723.1	726.3	723.1	722.6	721.2	721.7
5°	726.7	729.5	731.3	727.2	720.3	708.4	704.3	693.8	686.9	683.2	681.4
7.5°	729.5	731.3	730.4	718.9	701.1	678.6	659.4	644.3	628.3	625.5	624.6
10°	729.5	731.3	724.0	702.0	671.3	636.1	606.7	582.0	557.3	548.1	549.5
12.5°	727.6	728.6	711.6	676.4	631.9	583.9	542.6	501.9	470.3	451.1	447.4
15°	726.3	724.9	695.1	644.3	585.2	525.7	463.4	408.5	370.9	345.7	342.5
17.5°	726.3	721.2	675.4	607.7	534.4	452.4	370.0	310.5	268.8	254.1	253.7
20°	727.2	716.2	654.4	569.7	471.2	365.4	276.1	225.3	209.7	207.4	207.9
22.5°	728.1	709.3	631.5	526.6	400.7	272.5	197.4	179.0	180.4	185.9	185.5
25°	727.2	700.2	604.5	478.5	323.8	196.4	159.4	154.8	163.0	169.4	171.3
27.5°	724.9	688.3	575.6	421.3	246.8	154.8	139.2	138.8	147.0	152.9	152.5
30°	718.0	674.1	542.2	360.8	178.1	131.9	125.5	126.8	132.3	137.8	137.8
32.5°	710.7	658.0	506.9	294.9	136.9	119.5	117.2	117.7	121.3	125.5	125.0
35°	702.9	642.5	470.7	226.2	120.0	112.2	111.3	110.8	112.2	113.1	113.1
37.5°	698.3	628.7	430.9	170.3	110.8	107.6	105.8	103.9	103.5	102.6	101.7
40°	700.2	619.6	392.4	131.9	105.3	102.6	99.8	97.1	95.2	94.3	93.9
42.5°	713.0	616.8	349.9	113.6	100.3	98.0	94.3	89.8	87.9	87.9	87.5
45°	742.8	625.1	310.0	104.4	95.7	93.0	87.0	83.8	82.4	82.9	82.9
47.5°	789.5	648.4	274.3	99.8	92.5	88.4	81.5	78.3	77.4	77.8	77.8
50°	859.5	692.4	237.7	95.7	88.8	83.3	77.4	73.7	72.4	72.4	72.4
52.5°	962.1	764.7	211.1	93.0	85.6	79.2	73.3	69.1	67.3	67.3	66.9
55°	1087.1	859.1	201.0	91.1	81.5	75.6	69.1	65.0	62.3	61.4	61.8
57.5°	1224.0	981.3	215.7	90.7	76.9	71.4	65.0	60.0	57.2	56.8	56.3
60°	1365.1	1102.7	257.8	88.4	73.3	66.4	60.4	55.9	53.1	52.2	51.7
62.5°	1486.9	1223.6	327.4	86.5	70.5	61.8	55.4	51.3	49.0	47.6	47.6
65°	1633.9	1362.3	433.7	88.8	69.1	57.2	50.8	47.2	45.3	44.0	44.0
67.5°	1834.4	1567.9	514.2	99.8	72.4	53.6	45.8	43.0	41.7	40.8	40.8
70°	2031.8	1683.3	357.6	117.2	80.6	50.4	41.2	39.4	38.5	37.5	37.5
71°	2029.1	1621.5	268.8	121.3	83.3	49.5	39.4	38.0	37.1	36.6	36.2
72.5°	1927.4	1474.1	192.8	117.7	82.0	46.7	37.1	35.7	34.8	34.8	34.3
75°	1728.7	1299.1	150.7	98.5	68.7	41.7	33.0	32.1	31.1	30.7	31.1
77.5°	1416.4	1039.5	118.6	77.8	52.2	34.3	29.3	27.9	27.5	27.0	27.5
80°	650.7	452.9	86.5	60.4	38.9	27.5	24.7	24.3	23.8	23.4	23.4
82.5°	156.6	126.8	46.3	40.3	26.6	21.1	19.7	19.7	19.7	19.2	19.2
85°	34.3	34.3	18.8	18.8	16.0	14.7	15.6	15.6	15.6	14.7	14.7
87.5°	1.8	5.5	6.0	8.7	9.2	8.7	10.5	11.0	10.5	10.1	9.6
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)