

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: P400928

Luminaire Tested: **ENT-SA1A-735-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400928
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-SA1A-735-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA 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: 2536 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): 20.1
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

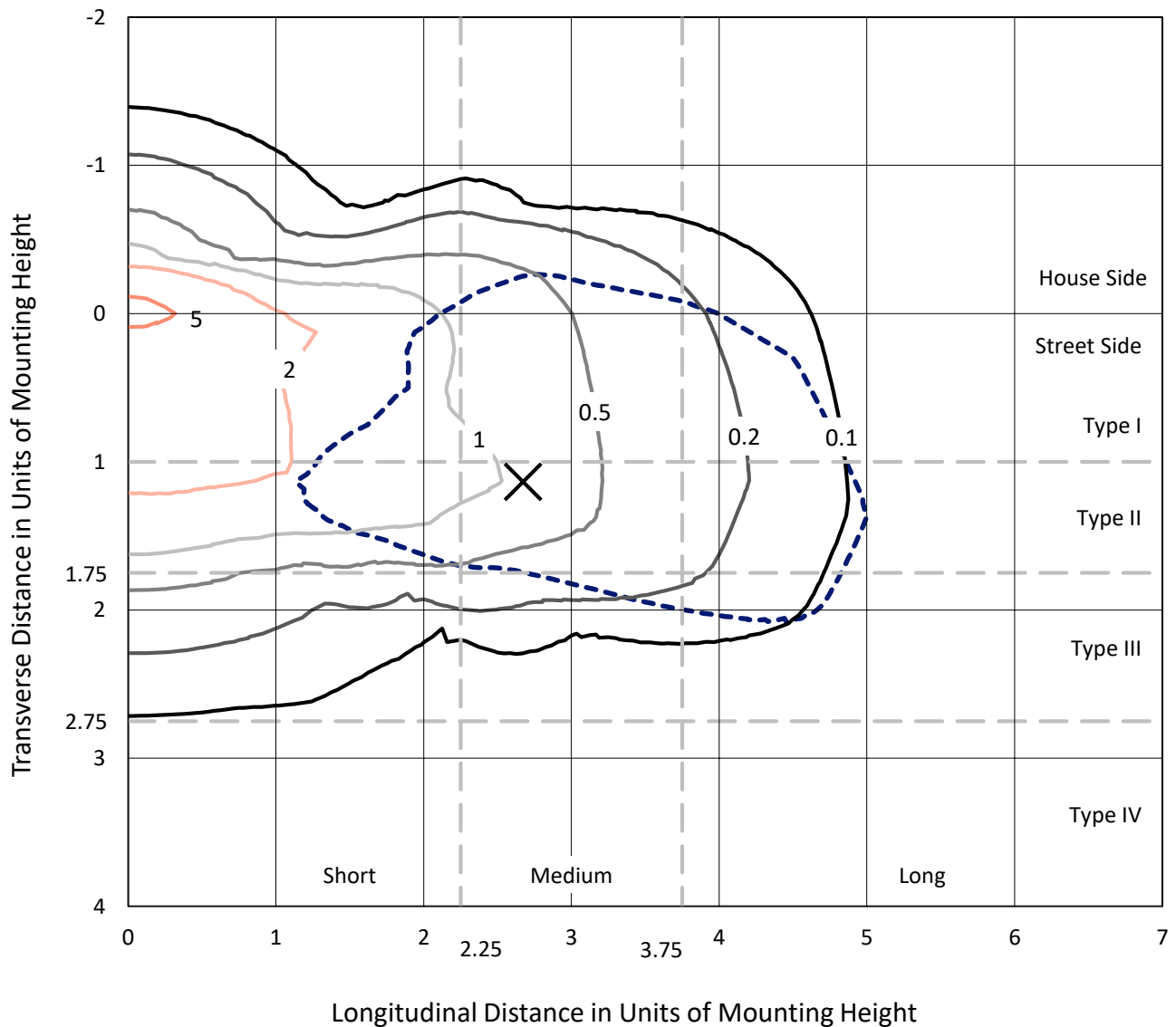


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

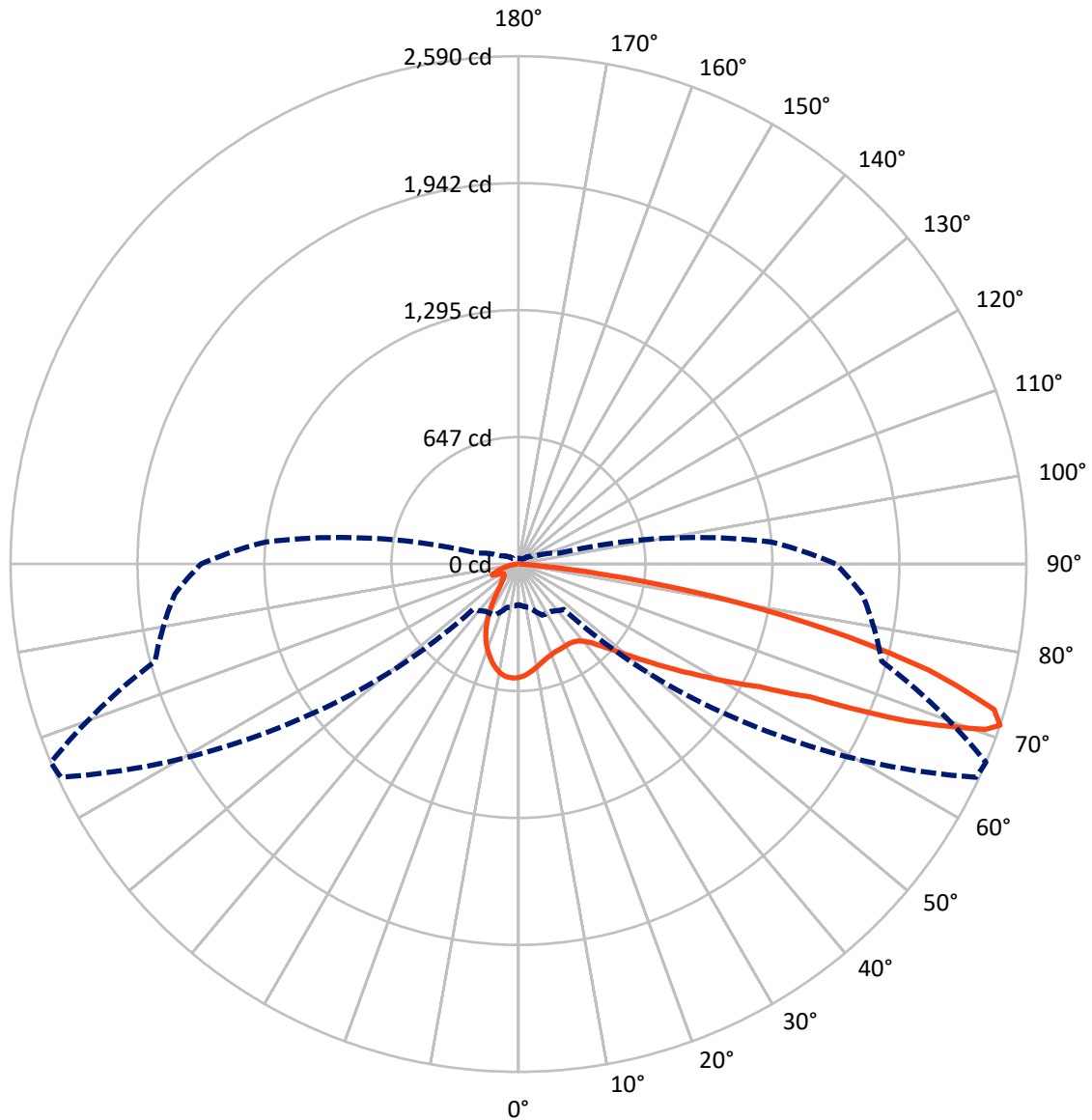


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - Non-Cutoff

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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	519.5	0.0	519.5
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	2016.4	0.0	2016.4
	% Fixture	79.5	0.0	79.5
Total	Lumens	2536.0	0.0	2536.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	2.0
10°-20°	125.9	5.0
20°-30°	170.0	6.7
30°-40°	223.9	8.8
40°-50°	319.0	12.6
50°-60°	487.2	19.2
60°-70°	608.4	24.0
70°-80°	491.1	19.4
80°-90°	59.2	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°	2536.0	100.0
0°-180°	2536.0	100.0



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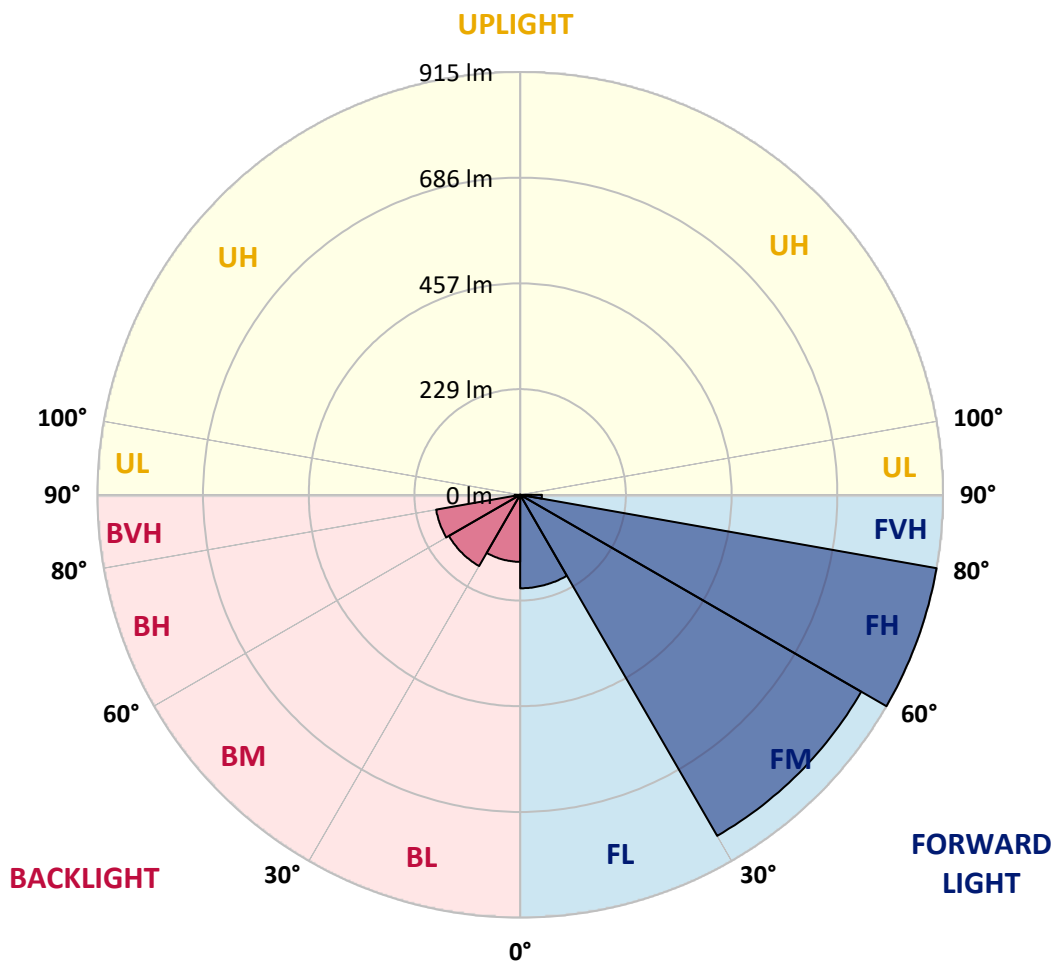
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.2	8.0			
FM	(30°-60°)	852.1	33.6			
FH	(60°-80°)	914.9	36.1			G1/1800
FVH	(80°-90°)	47.2	1.9			G1/100
BL	(0°-30°)	145.0	5.7	B1/500		
BM	(30°-60°)	178.0	7.0	B0/220		
BH	(60°-80°)	184.6	7.3	B1/500		G1/500
BVH	(80°-90°)	12.0	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°	578.3	578.3	578.3	578.3	578.3	578.3	578.3	578.3	578.3	578.3	578.3
2.5°	545.4	548.0	548.3	553.5	555.3	561.1	564.4	569.9	570.6	573.9	576.1
5°	510.0	510.4	512.6	516.9	523.9	534.5	542.5	556.0	558.6	568.1	576.4
7.5°	478.2	480.1	483.7	490.3	498.3	510.7	523.1	541.8	545.4	560.8	576.8
10°	456.7	458.5	461.5	468.8	476.8	490.7	505.6	527.2	531.2	552.4	575.7
12.5°	439.5	441.4	443.6	451.6	460.4	474.2	489.6	513.7	517.7	542.1	573.2
15°	428.2	428.6	431.5	438.1	447.9	461.5	476.8	501.6	506.4	534.1	572.4
17.5°	421.3	422.0	424.6	429.7	438.5	451.6	466.6	491.8	497.2	527.5	572.8
20°	421.7	422.4	423.8	425.7	431.9	443.2	458.9	484.5	489.9	523.5	575.4
22.5°	429.3	429.7	430.1	427.5	429.7	437.7	453.1	479.3	485.2	521.7	578.3
25°	443.9	443.9	443.2	437.4	432.6	435.9	449.8	477.5	483.4	520.2	581.2
27.5°	464.0	465.5	461.8	454.9	443.9	438.5	449.0	476.1	481.9	520.2	582.7
30°	491.4	492.1	490.7	481.5	463.6	448.7	451.2	475.0	480.8	519.5	583.0
32.5°	519.1	521.3	523.1	515.1	493.6	466.9	460.0	476.4	481.5	519.1	581.9
35°	547.2	548.7	557.5	556.0	532.6	494.3	474.2	482.3	486.6	521.0	582.7
37.5°	571.3	574.6	587.4	597.3	579.0	531.5	498.7	495.0	497.6	530.1	586.7
40°	597.3	602.0	621.0	639.6	631.6	578.3	533.4	518.0	517.3	546.9	596.5
42.5°	626.5	631.9	656.4	683.4	686.0	637.8	579.7	550.5	549.8	575.7	618.1
45°	660.8	665.9	699.1	731.2	746.9	704.2	636.7	596.5	596.9	615.9	652.4
47.5°	703.1	711.2	743.3	784.2	812.3	779.1	705.7	660.8	657.9	676.5	708.6
50°	762.6	769.2	795.9	835.7	884.9	869.6	792.6	738.2	736.0	744.7	783.8
52.5°	825.1	827.3	840.0	881.3	964.2	979.5	899.5	834.2	825.8	830.5	877.3
55°	828.7	833.5	841.9	894.1	1035.3	1111.3	1017.5	947.4	936.4	933.1	983.5
57.5°	752.8	760.4	771.4	838.9	1038.3	1263.5	1185.0	1079.5	1059.8	1043.4	1097.0
60°	591.8	601.6	621.7	704.6	964.2	1350.4	1464.7	1227.7	1210.2	1154.4	1208.0
62.5°	427.9	431.9	451.2	488.5	765.2	1355.5	1756.0	1421.2	1377.8	1262.4	1303.7
65°	344.6	351.2	357.0	356.7	453.1	1202.2	1949.5	1765.5	1634.4	1383.3	1408.8
67.5°	284.0	286.2	300.5	325.3	308.1	742.6	1968.8	2268.6	2135.7	1546.1	1533.7
70°	237.3	238.0	252.3	296.8	295.0	383.3	1650.9	2558.1	2525.9	1813.3	1729.0
71°	207.7	213.9	229.6	287.3	293.5	327.5	1402.6	2573.4	2589.5	1918.1	1759.3
72.5°	163.6	163.6	185.8	263.6	296.1	302.3	1033.5	2489.8	2536.2	2037.1	1706.7
75°	96.0	95.3	107.3	183.6	302.6	301.2	564.4	2069.2	2163.1	2058.6	1579.7
77.5°	54.0	55.1	61.7	102.2	240.2	289.1	324.2	1506.7	1617.3	1722.0	1335.8
80°	24.8	26.3	31.0	49.6	141.6	249.7	231.5	978.4	1020.4	1035.0	631.2
82.5°	6.6	7.3	9.5	19.0	54.8	170.1	171.2	409.6	423.1	244.6	135.4
85°	0.0	0.0	0.0	0.0	0.7	20.8	48.6	73.7	61.3	32.5	27.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	1.1	1.5	1.5	1.5	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°	578.3	578.3	578.3	578.3	578.3	578.3	578.3	578.3	578.3	578.3	578.3
2.5°	577.9	579.4	581.9	581.6	580.8	576.4	579.0	576.4	576.1	575.0	575.4
5°	579.4	581.6	583.0	579.7	574.3	564.8	561.5	553.1	547.6	544.7	543.2
7.5°	581.6	583.0	582.3	573.2	558.9	541.0	525.7	513.7	500.9	498.7	498.0
10°	581.6	583.0	577.2	559.7	535.2	507.1	483.7	464.0	444.3	437.0	438.1
12.5°	580.1	580.8	567.3	539.2	503.8	465.5	432.6	400.1	374.9	359.6	356.7
15°	579.0	577.9	554.2	513.7	466.6	419.1	369.5	325.6	295.7	275.6	273.1
17.5°	579.0	575.0	538.5	484.5	426.0	360.7	295.0	247.5	214.3	202.6	202.3
20°	579.7	571.0	521.7	454.2	375.7	291.3	220.1	179.6	167.2	165.4	165.7
22.5°	580.5	565.5	503.4	419.8	319.4	217.2	157.3	142.7	143.8	148.2	147.9
25°	579.7	558.2	481.9	381.5	258.1	156.6	127.0	123.4	130.0	135.1	136.5
27.5°	577.9	548.7	458.9	335.9	196.8	123.4	111.0	110.6	117.2	121.9	121.6
30°	572.4	537.4	432.2	287.7	142.0	105.1	100.0	101.1	105.5	109.9	109.9
32.5°	566.6	524.6	404.1	235.1	109.2	95.3	93.5	93.8	96.7	100.0	99.7
35°	560.4	512.2	375.3	180.3	95.6	89.4	88.7	88.3	89.4	90.2	90.2
37.5°	556.7	501.2	343.5	135.8	88.3	85.8	84.3	82.9	82.5	81.8	81.0
40°	558.2	493.9	312.9	105.1	84.0	81.8	79.6	77.4	75.9	75.2	74.8
42.5°	568.4	491.8	278.9	90.5	80.0	78.1	75.2	71.6	70.1	70.1	69.7
45°	592.1	498.3	247.2	83.2	76.3	74.1	69.4	66.8	65.7	66.1	66.1
47.5°	629.4	516.9	218.7	79.6	73.7	70.5	65.0	62.4	61.7	62.1	62.1
50°	685.2	552.0	189.5	76.3	70.8	66.4	61.7	58.8	57.7	57.7	57.7
52.5°	767.0	609.7	168.3	74.1	68.3	63.2	58.4	55.1	53.7	53.7	53.3
55°	866.7	684.9	160.3	72.6	65.0	60.2	55.1	51.8	49.6	48.9	49.3
57.5°	975.8	782.4	171.9	72.3	61.3	57.0	51.8	47.8	45.6	45.3	44.9
60°	1088.3	879.1	205.5	70.5	58.4	52.9	48.2	44.5	42.3	41.6	41.3
62.5°	1185.4	975.5	261.0	69.0	56.2	49.3	44.2	40.9	39.1	38.0	38.0
65°	1302.6	1086.1	345.7	70.8	55.1	45.6	40.5	37.6	36.1	35.0	35.0
67.5°	1462.5	1250.0	410.0	79.6	57.7	42.7	36.5	34.3	33.2	32.5	32.5
70°	1619.8	1342.0	285.1	93.5	64.3	40.2	32.9	31.4	30.7	29.9	29.9
71°	1617.6	1292.7	214.3	96.7	66.4	39.4	31.4	30.3	29.6	29.2	28.8
72.5°	1536.6	1175.2	153.7	93.8	65.3	37.2	29.6	28.5	27.7	27.7	27.4
75°	1378.1	1035.7	120.1	78.5	54.8	33.2	26.3	25.6	24.8	24.5	24.8
77.5°	1129.2	828.7	94.6	62.1	41.6	27.4	23.4	22.3	21.9	21.5	21.9
80°	518.8	361.1	69.0	48.2	31.0	21.9	19.7	19.3	19.0	18.6	18.6
82.5°	124.9	101.1	36.9	32.1	21.2	16.8	15.7	15.7	15.7	15.3	15.3
85°	27.4	27.4	15.0	15.0	12.8	11.7	12.4	12.4	12.4	11.7	11.7
87.5°	1.5	4.4	4.7	6.9	7.3	6.9	8.4	8.8	8.4	8.0	7.7
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)