

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: P401279

Luminaire Tested: **ENV-SA1C-730-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-730-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3109 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 33.3
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

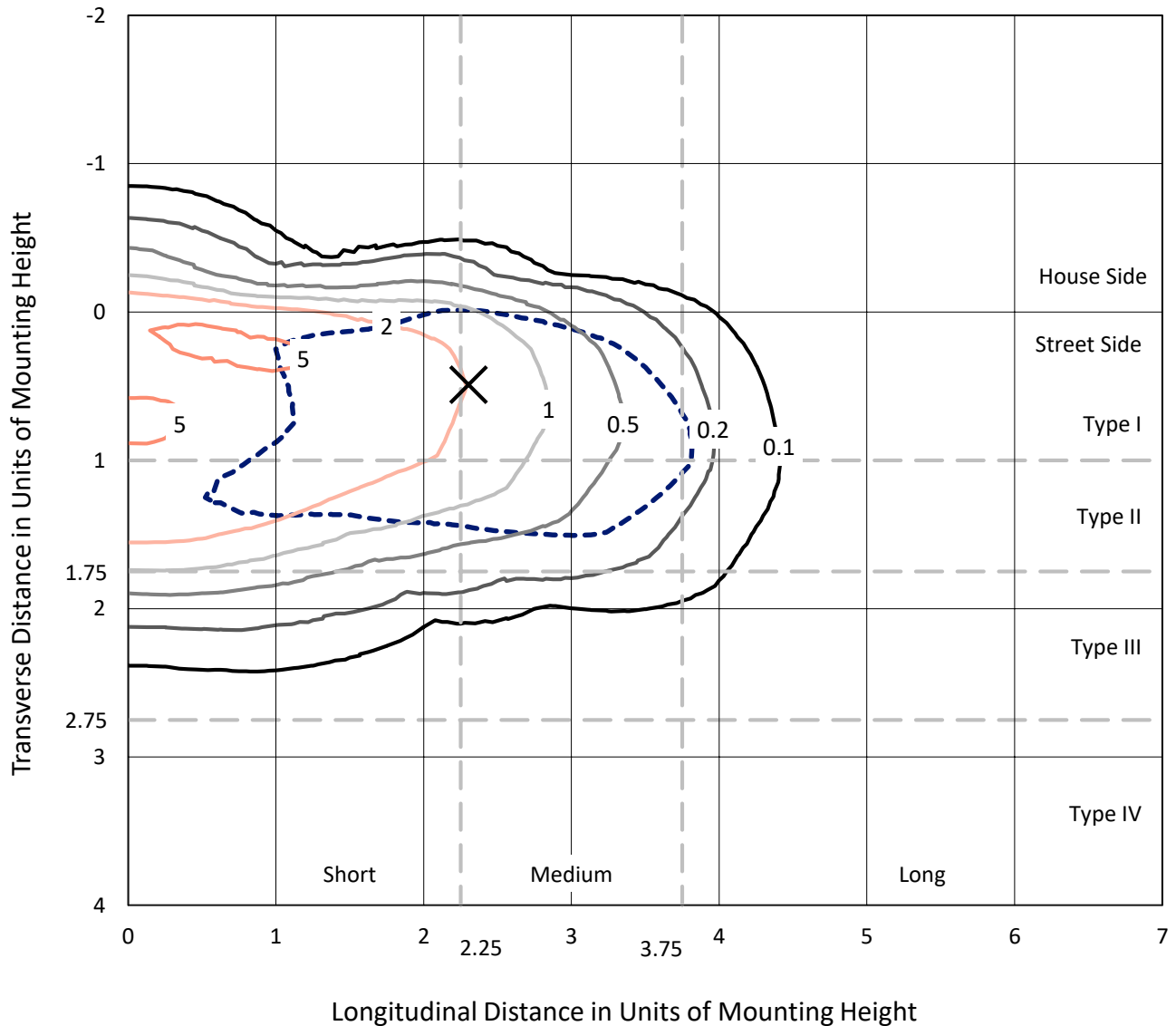


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

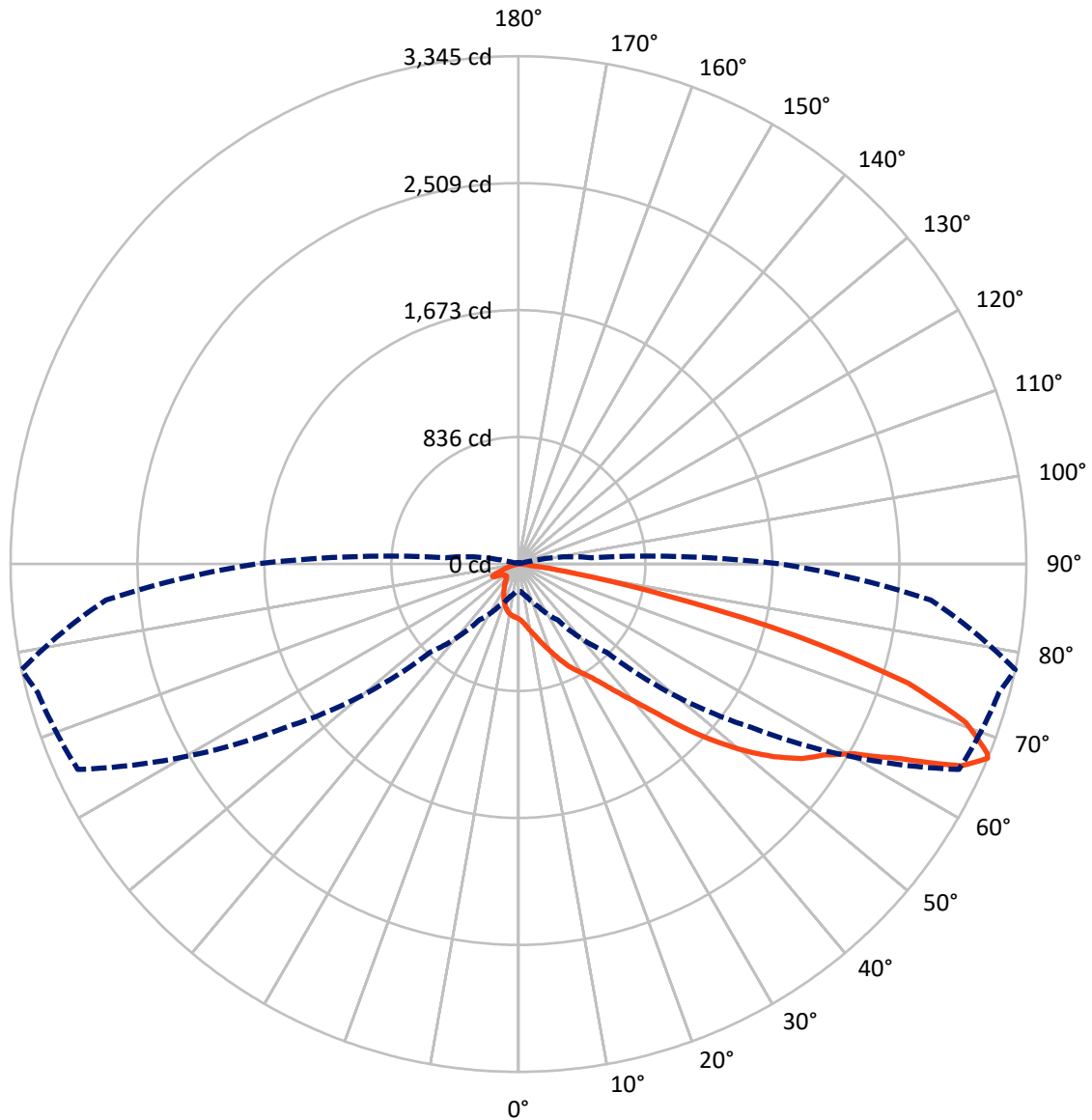


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	219.4	0.0	219.4
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	2889.7	0.0	2889.7
	% Fixture	92.9	0.0	92.9
Total	Lumens	3109.0	0.0	3109.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	1.1
10°-20°	99.7	3.2
20°-30°	176.1	5.7
30°-40°	310.5	10.0
40°-50°	533.6	17.2
50°-60°	803.2	25.8
60°-70°	790.4	25.4
70°-80°	345.4	11.1
80°-90°	15.3	0.5
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°	3109.0	100.0
0°-180°	3109.0	100.0



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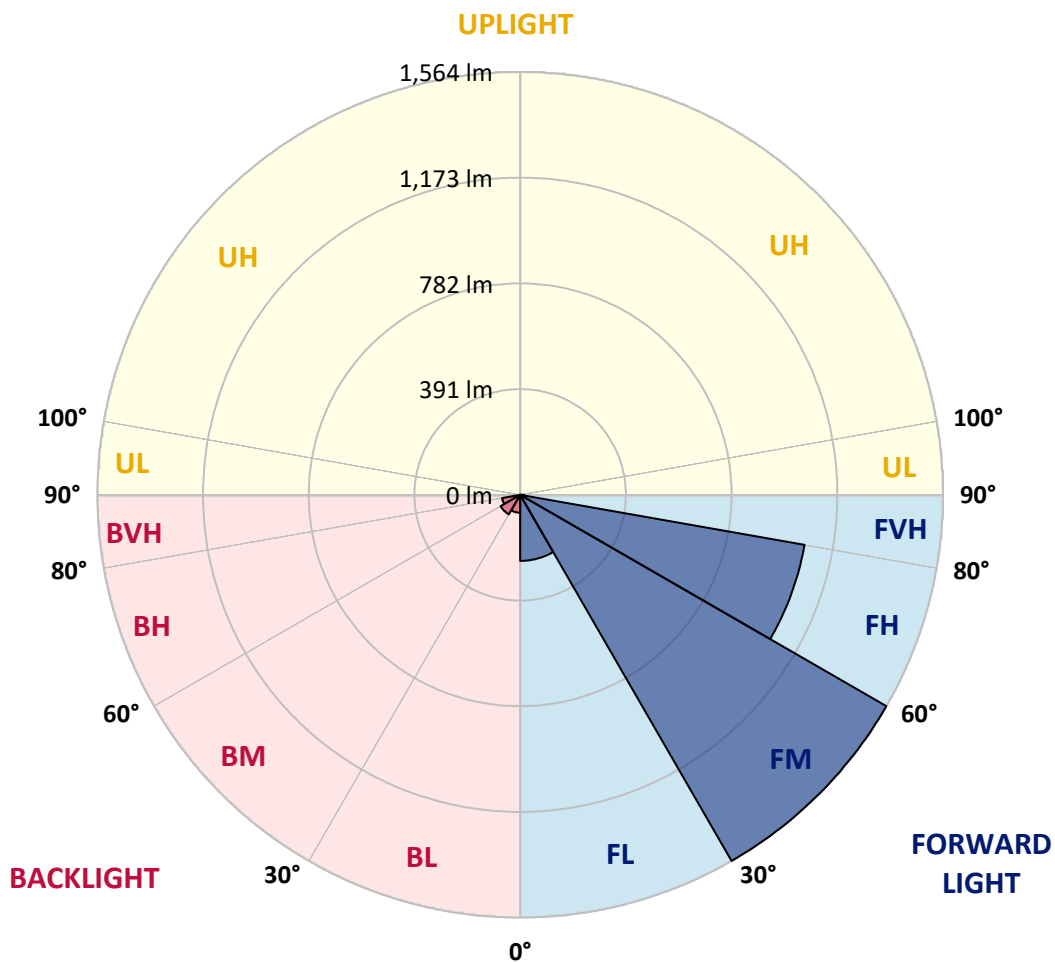
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.3	7.9			
FM	(30°-60°)	1563.9	50.3			
FH	(60°-80°)	1067.8	34.3			G1/1800
FVH	(80°-90°)	13.7	0.4			G1/100
BL	(0°-30°)	66.3	2.1	B0/110		
BM	(30°-60°)	83.5	2.7	B0/220		
BH	(60°-80°)	68.0	2.2	B0/110		G0/110
BVH	(80°-90°)	1.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0
2.5°	414.1	415.9	413.5	411.8	407.1	401.3	395.4	386.7	377.3	373.8	368.0
5°	464.9	464.9	464.9	460.3	456.2	445.1	431.6	418.2	400.7	394.3	380.8
7.5°	491.8	492.4	494.1	494.1	491.8	484.2	469.6	454.4	428.1	419.4	397.8
10°	494.7	497.1	501.7	508.7	514.0	518.1	509.3	493.0	461.4	450.9	419.4
12.5°	487.1	488.3	495.9	508.7	525.7	542.6	543.2	533.3	498.2	483.6	445.7
15°	469.6	471.4	482.5	502.9	529.2	559.6	577.1	574.2	541.5	524.5	474.9
17.5°	441.6	443.3	457.3	487.7	526.3	570.7	608.0	622.6	584.1	567.7	504.7
20°	440.4	441.0	446.3	469.0	514.6	577.1	638.4	672.9	636.1	618.6	539.7
22.5°	515.2	510.5	498.8	484.2	504.1	575.3	665.9	726.0	700.3	672.9	580.0
25°	598.7	600.5	587.6	553.1	528.0	572.4	686.9	786.2	760.5	733.0	621.5
27.5°	686.3	683.4	672.3	640.8	598.7	593.4	702.1	834.7	818.3	785.0	658.3
30°	771.6	769.3	761.1	729.0	683.4	647.8	713.8	878.5	873.2	836.4	688.1
32.5°	869.1	873.2	862.7	820.7	765.2	721.4	738.9	924.6	939.8	894.8	719.0
35°	982.5	982.5	960.8	922.3	865.0	803.7	789.1	975.4	1024.5	976.0	768.1
37.5°	1075.9	1083.5	1070.7	1015.2	961.4	897.2	865.6	1037.9	1129.1	1080.0	834.1
40°	1149.5	1162.4	1162.9	1108.0	1058.4	1016.3	972.5	1126.1	1260.5	1197.4	912.9
42.5°	1217.8	1220.2	1230.1	1198.6	1148.9	1137.8	1092.8	1230.7	1424.6	1350.4	1018.1
45°	1304.9	1309.5	1303.7	1280.3	1237.7	1252.3	1227.2	1363.3	1609.2	1546.7	1141.9
47.5°	1432.8	1443.9	1435.1	1393.1	1341.1	1368.5	1350.4	1495.3	1817.7	1741.8	1276.3
50°	1552.5	1561.3	1570.6	1557.2	1505.2	1478.9	1456.7	1634.9	1996.4	1932.2	1408.3
52.5°	1565.4	1573.6	1625.0	1672.3	1706.7	1637.8	1568.3	1776.2	2161.7	2108.0	1529.2
55°	1481.9	1487.1	1573.0	1666.4	1824.7	1848.1	1732.4	1915.8	2300.2	2263.4	1610.4
57.5°	1249.4	1271.6	1393.7	1536.8	1795.5	1973.1	1965.5	2078.2	2390.1	2373.2	1714.9
60°	820.7	845.2	991.2	1207.9	1580.6	1939.8	2221.3	2321.8	2516.3	2535.0	1898.3
62.5°	425.2	453.8	582.3	774.5	1145.4	1689.2	2308.4	2721.9	2758.1	2821.8	2225.4
65°	243.0	248.8	313.1	453.8	709.1	1209.7	2203.8	3117.9	3076.4	3205.5	2643.0
67°	180.5	180.5	225.5	308.4	449.2	822.4	1879.6	3201.4	3276.8	3345.1	2727.2
67.5°	161.8	170.6	209.1	284.5	403.0	729.5	1758.7	3179.2	3289.6	3332.3	2697.9
70°	111.0	116.8	150.1	203.9	271.6	379.7	1153.0	2811.8	3169.3	3126.1	2445.0
72.5°	66.6	68.9	99.3	146.6	202.7	203.3	629.1	2134.3	2685.7	2685.1	1997.0
75°	41.5	43.8	58.4	98.1	141.9	127.3	290.9	1452.1	1928.7	1891.3	1338.2
77.5°	23.4	26.9	35.0	53.7	90.0	81.2	122.7	813.6	1042.0	977.8	664.7
80°	9.3	11.1	19.9	25.7	50.8	48.5	50.2	286.2	421.7	380.2	222.5
82.5°	2.3	2.9	7.0	12.3	19.9	19.9	15.8	78.3	99.9	92.9	57.2
85°	0.0	0.0	0.6	0.6	0.6	1.2	4.1	8.8	10.5	12.3	9.3
87.5°	0.0	0.0	0.0	0.6	0.6	0.6	1.2	1.8	1.8	1.8	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°	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0
2.5°	363.3	359.2	351.0	342.3	333.5	326.5	320.7	312.5	311.3	311.3	311.3
5°	370.9	361.6	342.9	324.2	305.5	288.5	276.3	266.3	257.6	254.7	257.0
7.5°	382.0	365.1	332.4	299.6	270.4	246.5	229.0	214.9	208.5	205.0	202.1
10°	396.6	370.3	318.3	270.4	233.6	205.0	186.3	172.9	166.5	162.4	163.0
12.5°	412.4	374.4	300.8	238.9	198.0	171.7	156.0	144.9	134.3	127.9	129.7
15°	428.1	377.3	279.2	209.7	170.6	147.2	125.0	105.1	98.1	97.0	96.4
17.5°	445.7	376.7	255.3	182.2	147.2	114.5	92.3	90.0	89.4	89.4	88.8
20°	463.8	373.8	227.8	159.5	123.8	87.0	83.5	82.4	80.6	80.0	79.4
22.5°	483.6	368.6	202.7	139.6	92.3	79.4	74.8	71.3	68.3	66.6	67.2
25°	501.7	358.6	178.1	120.9	78.9	71.3	64.8	59.6	56.7	54.3	54.9
27.5°	514.0	341.1	157.1	97.5	72.4	63.1	55.5	50.2	46.1	44.4	44.4
30°	515.2	316.0	138.4	80.0	66.0	55.5	47.3	41.5	39.1	38.0	37.4
32.5°	514.0	290.3	124.4	73.6	60.2	48.5	40.3	36.2	33.9	32.7	32.7
35°	519.8	264.0	111.6	67.8	53.7	42.6	35.6	31.5	29.8	28.6	28.6
37.5°	537.4	245.9	98.1	61.9	47.9	37.4	32.1	28.6	26.9	25.7	25.7
40°	561.3	230.7	81.8	56.1	42.1	33.9	29.2	26.3	23.9	22.8	22.8
42.5°	603.4	224.9	68.3	50.2	36.8	30.4	26.9	23.4	21.0	19.9	19.9
45°	665.9	227.8	62.5	45.0	33.3	27.5	23.9	20.4	18.1	17.5	17.5
47.5°	734.8	240.1	58.4	40.3	30.4	25.7	21.6	18.1	15.8	15.2	15.2
50°	811.9	259.3	54.9	35.6	27.5	23.4	19.3	15.8	14.0	13.4	13.4
52.5°	885.5	283.9	51.4	32.1	25.7	21.0	16.9	14.0	12.9	12.3	12.3
55°	941.6	299.6	48.5	29.8	23.9	19.3	15.2	13.4	11.7	11.1	11.1
57.5°	1019.8	325.9	45.0	26.9	21.6	17.5	14.0	12.3	10.5	10.5	10.5
60°	1178.7	396.6	39.7	24.5	19.3	15.8	13.4	11.1	9.9	9.3	9.3
62.5°	1464.9	513.4	34.5	22.8	16.9	14.0	11.7	9.9	8.8	7.6	7.6
65°	1740.6	561.9	29.2	19.9	15.2	12.3	10.5	8.8	6.4	5.3	5.3
67°	1725.4	480.7	24.5	16.9	12.9	11.1	8.8	7.0	4.7	2.9	2.9
67.5°	1684.5	447.4	23.9	16.4	12.3	10.5	8.8	6.4	4.1	2.3	2.3
70°	1431.6	313.1	18.7	12.9	10.5	9.3	7.0	4.7	2.3	1.2	1.2
72.5°	1162.9	248.2	14.6	10.5	8.8	7.0	5.8	2.9	1.8	0.6	0.6
75°	822.4	152.4	12.9	9.3	7.0	5.3	4.7	2.9	1.8	1.2	0.6
77.5°	405.9	70.1	10.5	8.2	6.4	5.3	4.1	3.5	2.9	2.3	1.2
80°	119.2	22.8	7.0	5.8	5.8	5.3	4.7	4.1	3.5	2.9	1.8
82.5°	26.9	8.2	2.3	2.9	4.1	4.1	4.1	2.9	2.3	1.2	0.6
85°	3.5	1.8	1.8	1.8	2.3	2.3	1.8	1.2	1.2	0.0	0.0
87.5°	1.2	1.2	1.2	1.8	1.8	1.8	1.2	0.6	0.6	0.0	0.0
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)