

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: P401657

Luminaire Tested: **ENT-SA1E-735-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401657
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: ENT-SA1E-735-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 5000 lumens
Efficiency: N/A
Efficacy: 87.4 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): 57.2
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

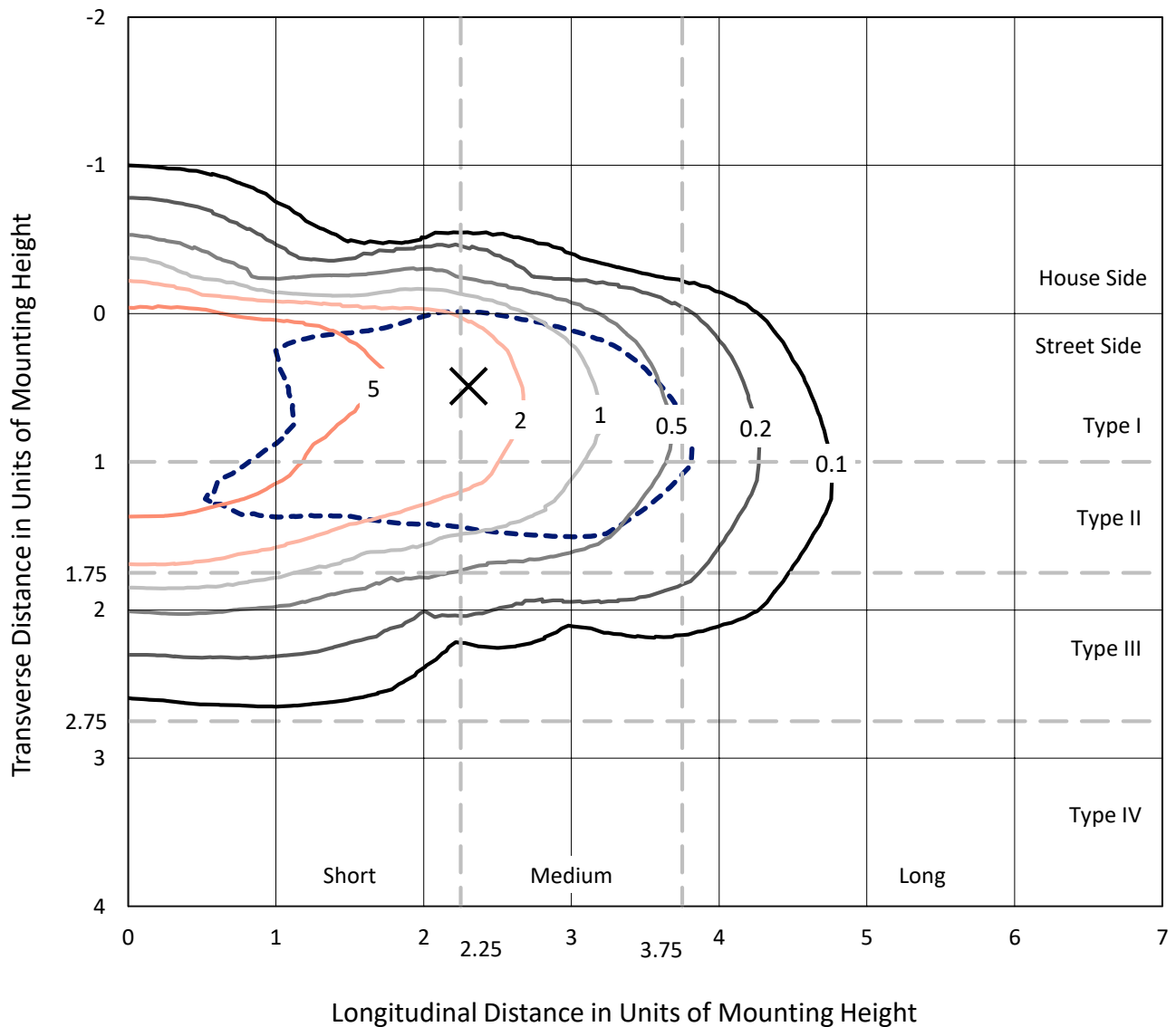


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

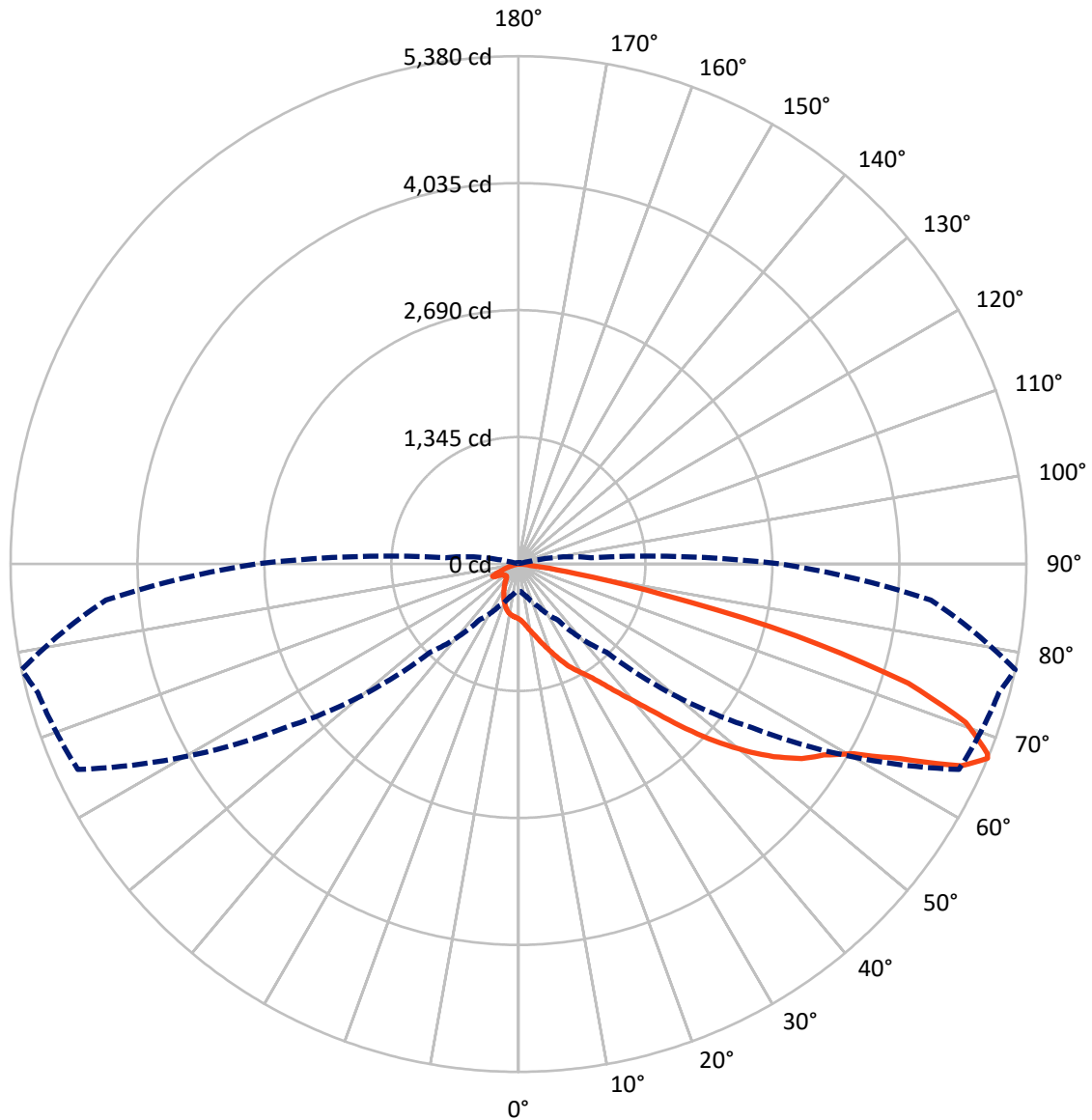


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - Semi-Cutoff

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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	352.8	0.0	352.8
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	4647.2	0.0	4647.2
	% Fixture	92.9	0.0	92.9
Total	Lumens	5000.0	0.0	5000.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	1.1
10°-20°	160.3	3.2
20°-30°	283.2	5.7
30°-40°	499.3	10.0
40°-50°	858.1	17.2
50°-60°	1291.8	25.8
60°-70°	1271.2	25.4
70°-80°	555.5	11.1
80°-90°	24.6	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°	5000.0	100.0
0°-180°	5000.0	100.0



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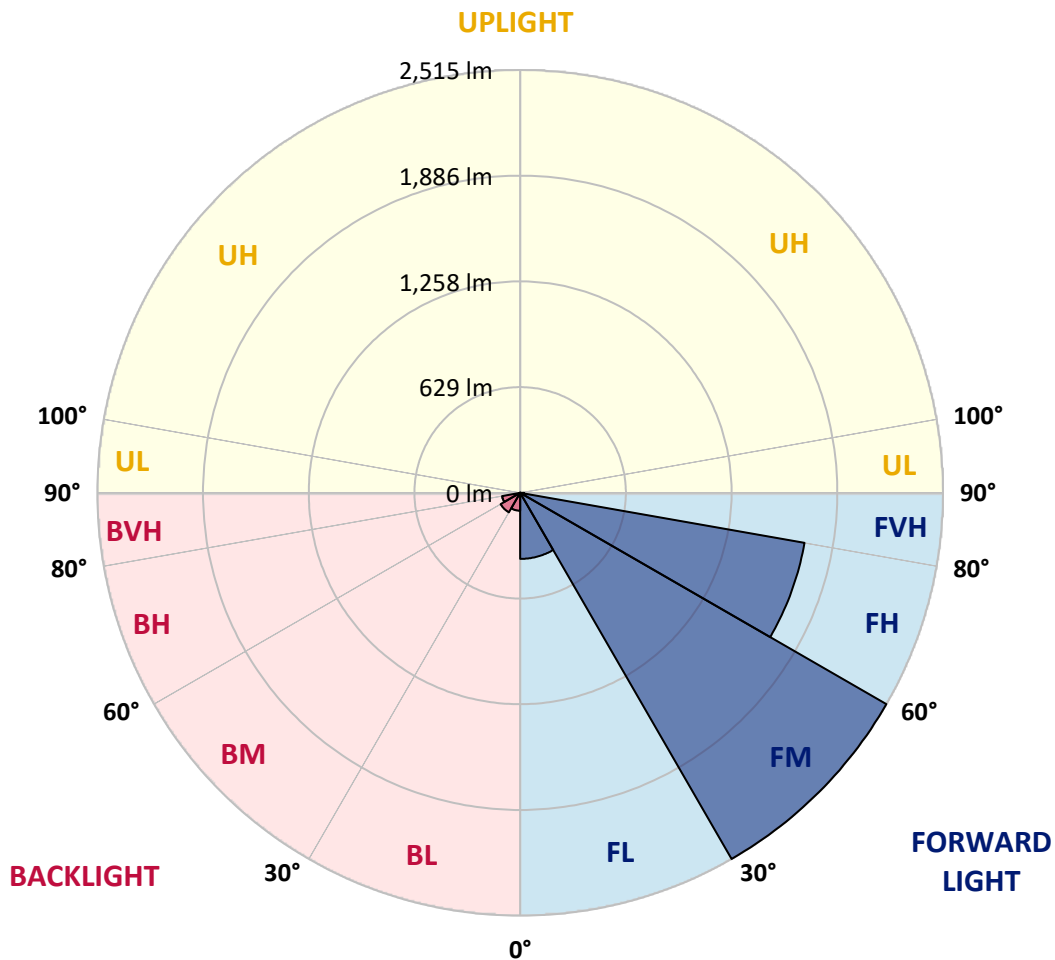
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.9	7.9			
FM	(30°-60°)	2515.1	50.3			
FH	(60°-80°)	1717.2	34.3			G1/1800
FVH	(80°-90°)	22.1	0.4			G1/100
BL	(0°-30°)	106.6	2.1	B0/110		
BM	(30°-60°)	134.2	2.7	B0/220		
BH	(60°-80°)	109.4	2.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5
2.5°	666.0	668.8	665.1	662.3	654.7	645.3	636.0	621.9	606.8	601.2	591.8
5°	747.7	747.7	747.7	740.2	733.6	715.8	694.2	672.6	644.4	634.1	612.5
7.5°	790.9	791.9	794.7	794.7	790.9	778.7	755.3	730.8	688.6	674.5	639.7
10°	795.6	799.4	806.9	818.2	826.6	833.2	819.1	792.8	742.1	725.2	674.5
12.5°	783.4	785.3	797.5	818.2	845.4	872.7	873.6	857.6	801.3	777.8	716.7
15°	755.3	758.1	775.9	808.8	851.1	899.9	928.1	923.4	870.8	843.6	763.7
17.5°	710.2	713.0	735.5	784.4	846.4	917.8	977.9	1001.4	939.4	913.1	811.6
20°	708.3	709.2	717.7	754.3	827.6	928.1	1026.7	1082.2	1023.0	994.8	868.0
22.5°	828.5	821.0	802.2	778.7	810.7	925.3	1070.9	1167.6	1126.3	1082.2	932.8
25°	962.9	965.7	945.0	889.6	849.2	920.6	1104.7	1264.4	1223.1	1178.9	999.5
27.5°	1103.8	1099.1	1081.2	1030.5	962.9	954.4	1129.1	1342.4	1316.1	1262.5	1058.7
30°	1240.9	1237.1	1224.0	1172.3	1099.1	1041.8	1147.9	1412.8	1404.4	1345.2	1106.6
32.5°	1397.8	1404.4	1387.4	1319.8	1230.6	1160.1	1188.3	1487.0	1511.4	1439.1	1156.4
35°	1580.0	1580.0	1545.3	1483.3	1391.2	1292.6	1269.1	1568.7	1647.6	1569.7	1235.3
37.5°	1730.3	1742.5	1721.9	1632.6	1546.2	1442.9	1392.1	1669.3	1815.8	1736.9	1341.4
40°	1848.7	1869.3	1870.3	1782.0	1702.1	1634.5	1564.0	1811.1	2027.2	1925.7	1468.2
42.5°	1958.6	1962.3	1978.3	1927.6	1847.7	1829.9	1757.6	1979.2	2291.1	2171.8	1637.3
45°	2098.5	2106.1	2096.7	2059.1	1990.5	2014.0	1973.6	2192.5	2588.0	2487.4	1836.5
47.5°	2304.3	2322.1	2308.0	2240.4	2156.8	2200.9	2171.8	2404.8	2923.3	2801.2	2052.5
50°	2496.8	2510.9	2526.0	2504.4	2420.7	2378.5	2342.8	2629.3	3210.8	3107.4	2264.8
52.5°	2517.5	2530.7	2613.3	2689.4	2744.8	2634.0	2522.2	2856.6	3476.6	3390.2	2459.3
55°	2383.2	2391.6	2529.7	2680.0	2934.6	2972.2	2786.2	3081.1	3699.2	3640.0	2589.8
57.5°	2009.3	2045.0	2241.3	2471.5	2887.6	3173.2	3161.0	3342.3	3843.9	3816.6	2758.0
60°	1319.8	1359.3	1594.1	1942.6	2541.9	3119.6	3572.4	3734.0	4046.8	4076.9	3052.9
62.5°	683.9	729.9	936.5	1245.6	1842.1	2716.6	3712.4	4377.4	4435.7	4538.1	3579.0
65°	390.8	400.2	503.5	729.9	1140.4	1945.4	3544.2	5014.3	4947.6	5155.2	4250.6
67°	290.3	290.3	362.6	496.0	722.4	1322.6	3022.9	5148.7	5269.8	5379.8	4385.9
67.5°	260.2	274.3	336.3	457.5	648.2	1173.3	2828.4	5113.0	5290.5	5359.1	4338.9
70°	178.5	187.9	241.4	327.8	436.8	610.6	1854.3	4522.1	5097.0	5027.5	3932.2
72.5°	107.1	110.8	159.7	235.8	326.0	326.9	1011.7	3432.4	4319.2	4318.3	3211.7
75°	66.7	70.5	93.9	157.8	228.3	204.8	467.8	2335.3	3101.8	3041.7	2152.1
77.5°	37.6	43.2	56.4	86.4	144.7	130.6	197.3	1308.5	1675.8	1572.5	1069.0
80°	15.0	17.8	31.9	41.3	81.7	78.0	80.8	460.3	678.2	611.5	357.9
82.5°	3.8	4.7	11.3	19.7	31.9	31.9	25.4	125.9	160.6	149.4	92.1
85°	0.0	0.0	0.9	0.9	0.9	1.9	6.6	14.1	16.9	19.7	15.0
87.5°	0.0	0.0	0.0	0.9	0.9	0.9	1.9	2.8	2.8	2.8	2.8
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°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5
2.5°	584.3	577.7	564.6	550.5	536.4	525.1	515.7	502.6	500.7	500.7	500.7
5°	596.5	581.5	551.4	521.3	491.3	464.0	444.3	428.4	414.3	409.6	413.3
7.5°	614.3	587.1	534.5	481.9	434.9	396.4	368.2	345.7	335.4	329.7	325.0
10°	637.8	595.6	512.0	434.9	375.7	329.7	299.7	278.1	267.7	261.1	262.1
12.5°	663.2	602.1	483.8	384.2	318.4	276.2	250.8	233.0	216.1	205.7	208.5
15°	688.6	606.8	449.0	337.2	274.3	236.7	201.0	169.1	157.8	155.9	155.0
17.5°	716.7	605.9	410.5	293.1	236.7	184.1	148.4	144.7	143.7	143.7	142.8
20°	745.9	601.2	366.4	256.4	199.1	140.0	134.3	132.5	129.6	128.7	127.8
22.5°	777.8	592.7	326.0	224.5	148.4	127.8	120.2	114.6	109.9	107.1	108.0
25°	806.9	576.8	286.5	194.4	126.8	114.6	104.3	95.8	91.1	87.4	88.3
27.5°	826.6	548.6	252.7	156.9	116.5	101.5	89.2	80.8	74.2	71.4	71.4
30°	828.5	508.2	222.6	128.7	106.1	89.2	76.1	66.7	62.9	61.1	60.1
32.5°	826.6	466.9	200.1	118.4	96.8	78.0	64.8	58.2	54.5	52.6	52.6
35°	836.0	424.6	179.4	109.0	86.4	68.6	57.3	50.7	47.9	46.0	46.0
37.5°	864.2	395.5	157.8	99.6	77.0	60.1	51.7	46.0	43.2	41.3	41.3
40°	902.7	371.0	131.5	90.2	67.6	54.5	47.0	42.3	38.5	36.6	36.6
42.5°	970.4	361.7	109.9	80.8	59.2	48.8	43.2	37.6	33.8	31.9	31.9
45°	1070.9	366.4	100.5	72.3	53.5	44.2	38.5	32.9	29.1	28.2	28.2
47.5°	1181.7	386.1	93.9	64.8	48.8	41.3	34.8	29.1	25.4	24.4	24.4
50°	1305.7	417.1	88.3	57.3	44.2	37.6	31.0	25.4	22.5	21.6	21.6
52.5°	1424.1	456.5	82.7	51.7	41.3	33.8	27.2	22.5	20.7	19.7	19.7
55°	1514.3	481.9	78.0	47.9	38.5	31.0	24.4	21.6	18.8	17.8	17.8
57.5°	1640.1	524.2	72.3	43.2	34.8	28.2	22.5	19.7	16.9	16.9	16.9
60°	1895.6	637.8	63.9	39.5	31.0	25.4	21.6	17.8	16.0	15.0	15.0
62.5°	2355.9	825.7	55.4	36.6	27.2	22.5	18.8	16.0	14.1	12.2	12.2
65°	2799.3	903.7	47.0	31.9	24.4	19.7	16.9	14.1	10.3	8.5	8.5
67°	2774.9	773.1	39.5	27.2	20.7	17.8	14.1	11.3	7.5	4.7	4.7
67.5°	2709.1	719.6	38.5	26.3	19.7	16.9	14.1	10.3	6.6	3.8	3.8
70°	2302.4	503.5	30.1	20.7	16.9	15.0	11.3	7.5	3.8	1.9	1.9
72.5°	1870.3	399.2	23.5	16.9	14.1	11.3	9.4	4.7	2.8	0.9	0.9
75°	1322.6	245.2	20.7	15.0	11.3	8.5	7.5	4.7	2.8	1.9	0.9
77.5°	652.9	112.7	16.9	13.2	10.3	8.5	6.6	5.6	4.7	3.8	1.9
80°	191.6	36.6	11.3	9.4	9.4	8.5	7.5	6.6	5.6	4.7	2.8
82.5°	43.2	13.2	3.8	4.7	6.6	6.6	6.6	4.7	3.8	1.9	0.9
85°	5.6	2.8	2.8	2.8	3.8	3.8	2.8	1.9	1.9	0.0	0.0
87.5°	1.9	1.9	1.9	2.8	2.8	2.8	1.9	0.9	0.9	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)