

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: P401081

Luminaire Tested: **ENT-SA1B-727-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401081
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-SA1B-727-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA 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: 2169 lumens
Efficiency: N/A
Efficacy: 85.4 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): 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

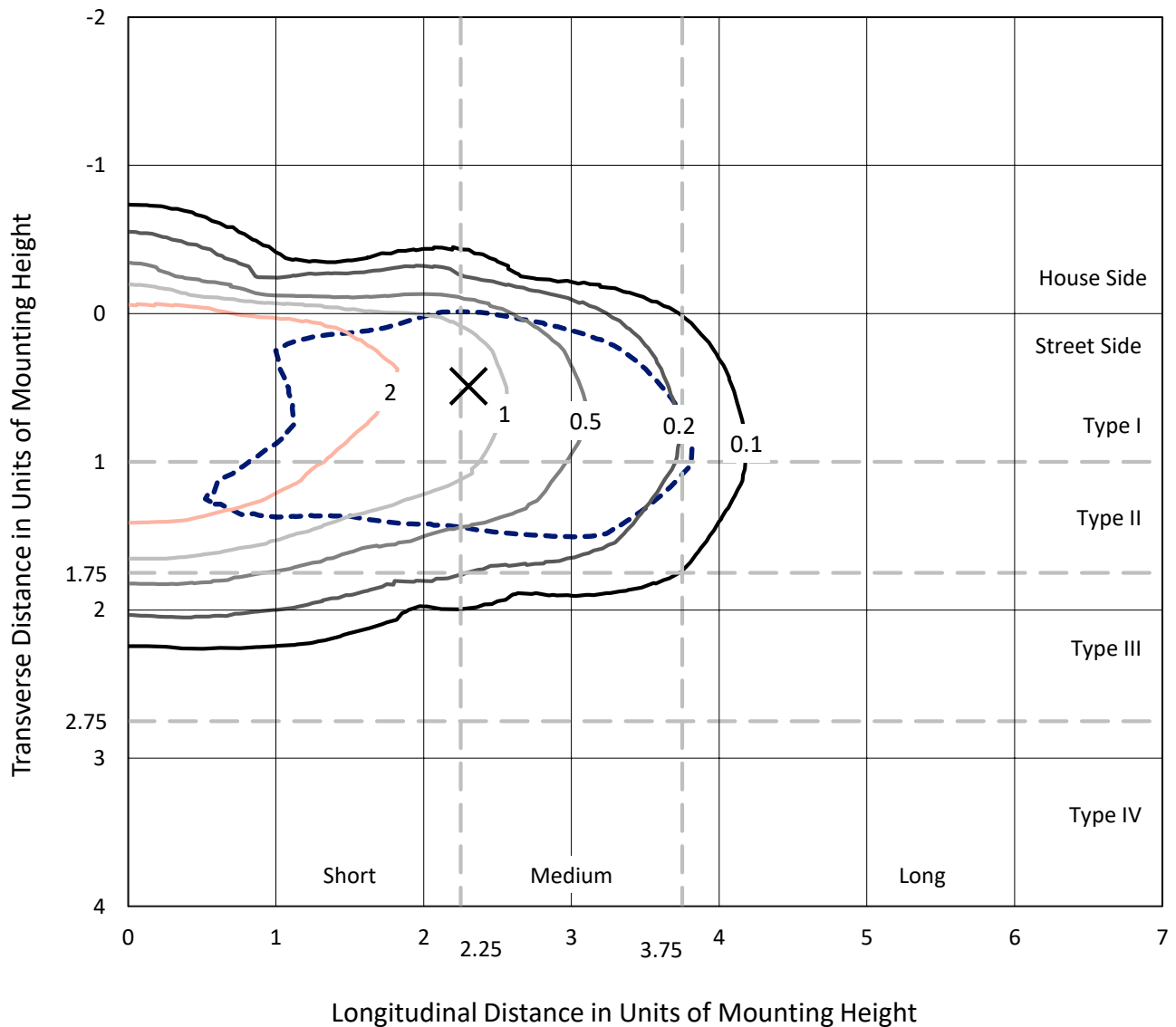


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

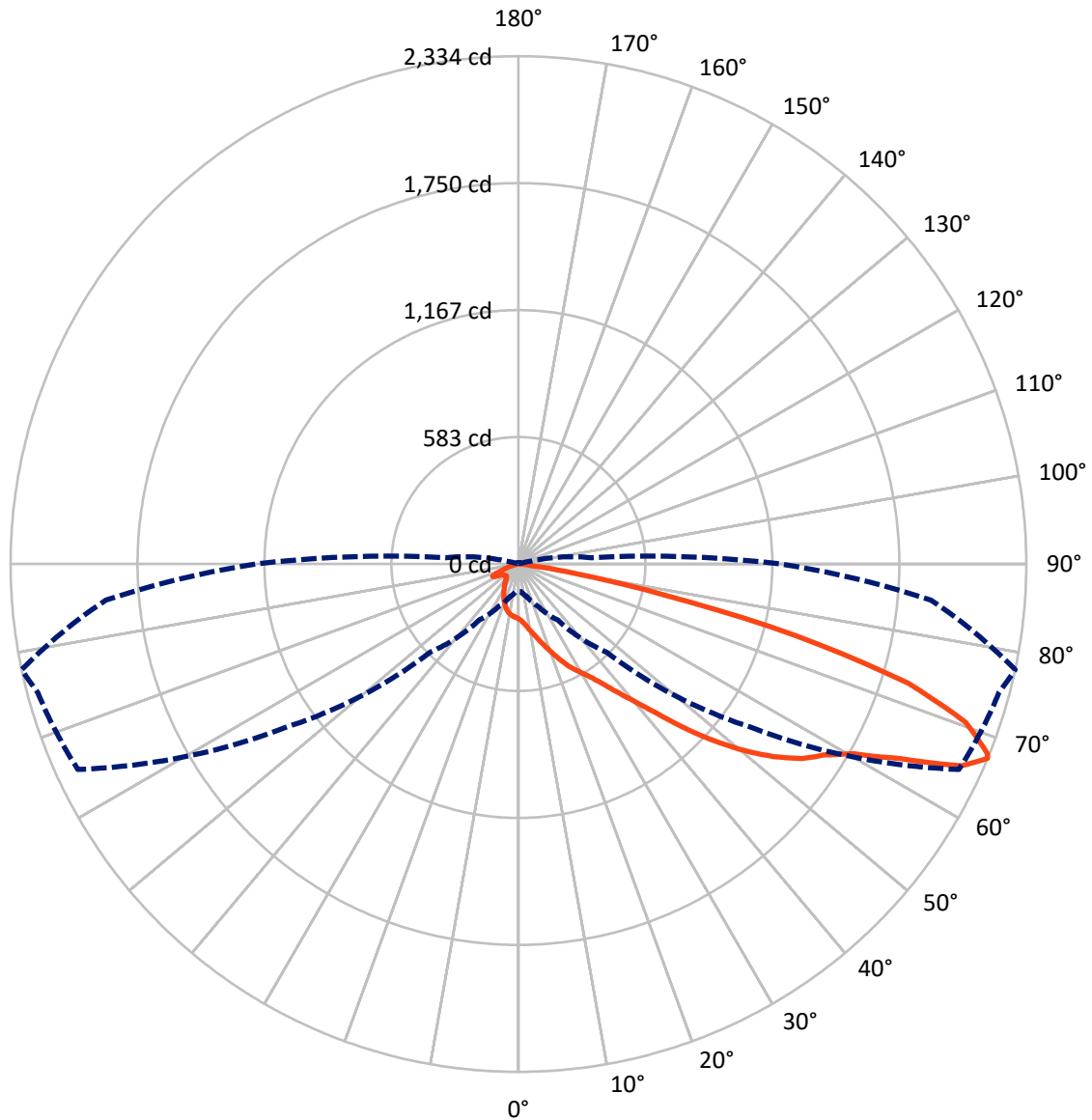


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Semi-Cutoff

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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	153.0	0.0	153.0
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	2016.0	0.0	2016.0
	% Fixture	92.9	0.0	92.9
Total	Lumens	2169.0	0.0	2169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	1.1
10°-20°	69.5	3.2
20°-30°	122.8	5.7
30°-40°	216.6	10.0
40°-50°	372.3	17.2
50°-60°	560.4	25.8
60°-70°	551.5	25.4
70°-80°	241.0	11.1
80°-90°	10.7	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°	2169.0	100.0
0°-180°	2169.0	100.0

Coefficient of Utilization



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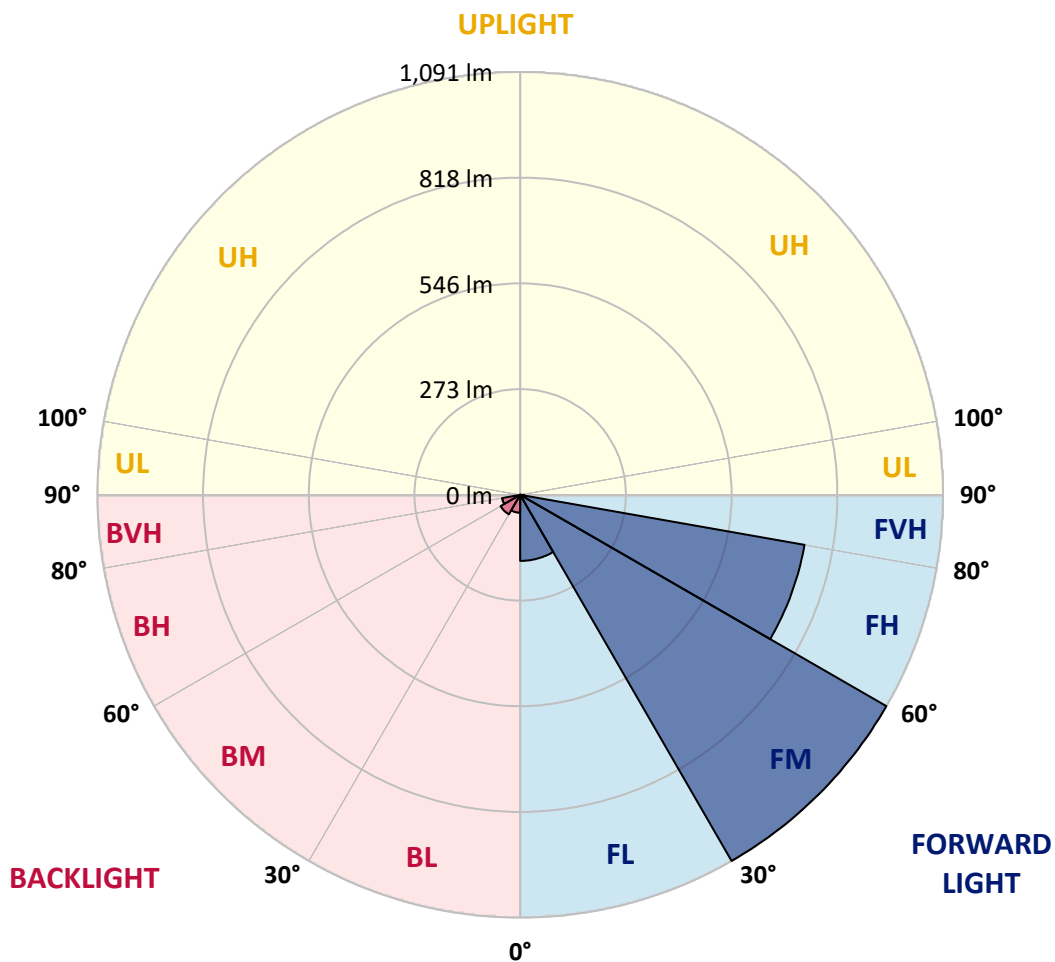
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.4	7.9			
FM	(30°-60°)	1091.0	50.3			
FH	(60°-80°)	744.9	34.3			G1/1800
FVH	(80°-90°)	9.6	0.4			G0/10
BL	(0°-30°)	46.2	2.1	B0/110		
BM	(30°-60°)	58.2	2.7	B0/220		
BH	(60°-80°)	47.5	2.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	251.8	251.8	251.8	251.8	251.8	251.8	251.8	251.8	251.8	251.8	251.8
2.5°	288.9	290.1	288.5	287.3	284.0	280.0	275.9	269.8	263.2	260.8	256.7
5°	324.4	324.4	324.4	321.1	318.3	310.5	301.1	291.8	279.5	275.1	265.7
7.5°	343.1	343.5	344.7	344.7	343.1	337.8	327.6	317.0	298.7	292.6	277.5
10°	345.2	346.8	350.0	354.9	358.6	361.5	355.3	343.9	321.9	314.6	292.6
12.5°	339.9	340.7	346.0	354.9	366.7	378.6	379.0	372.0	347.6	337.4	310.9
15°	327.6	328.9	336.6	350.9	369.2	390.4	402.6	400.6	377.7	365.9	331.3
17.5°	308.1	309.3	319.1	340.3	367.2	398.1	424.2	434.4	407.5	396.1	352.1
20°	307.3	307.7	311.3	327.2	359.0	402.6	445.4	469.4	443.8	431.5	376.5
22.5°	359.4	356.2	348.0	337.8	351.7	401.4	464.5	506.5	488.6	469.4	404.6
25°	417.7	418.9	409.9	385.9	368.4	399.3	479.2	548.5	530.6	511.4	433.6
27.5°	478.8	476.8	469.0	447.0	417.7	414.0	489.8	582.3	570.9	547.7	459.2
30°	538.3	536.7	531.0	508.6	476.8	451.9	498.0	612.9	609.2	583.5	480.0
32.5°	606.4	609.2	601.9	572.5	533.8	503.3	515.5	645.1	655.7	624.3	501.6
35°	685.4	685.4	670.3	643.4	603.5	560.7	550.5	680.5	714.8	680.9	535.9
37.5°	750.6	755.9	746.9	708.2	670.7	625.9	603.9	724.1	787.7	753.5	581.9
40°	802.0	810.9	811.3	773.0	738.4	709.0	678.5	785.7	879.4	835.4	636.9
42.5°	849.6	851.3	858.2	836.2	801.5	793.8	762.4	858.6	993.9	942.1	710.3
45°	910.3	913.6	909.5	893.2	863.5	873.7	856.2	951.1	1122.7	1079.1	796.7
47.5°	999.6	1007.3	1001.2	971.9	935.6	954.8	942.1	1043.2	1268.1	1215.2	890.4
50°	1083.1	1089.2	1095.8	1086.4	1050.1	1031.8	1016.3	1140.6	1392.8	1348.0	982.5
52.5°	1092.1	1097.8	1133.7	1166.7	1190.7	1142.6	1094.1	1239.2	1508.1	1470.7	1066.8
55°	1033.8	1037.5	1097.4	1162.6	1273.0	1289.3	1208.6	1336.6	1604.7	1579.1	1123.5
57.5°	871.6	887.1	972.3	1072.1	1252.6	1376.5	1371.2	1449.9	1667.5	1655.7	1196.4
60°	572.5	589.6	691.5	842.7	1102.7	1353.3	1549.7	1619.8	1755.5	1768.5	1324.4
62.5°	296.7	316.6	406.3	540.3	799.1	1178.5	1610.4	1898.9	1924.2	1968.6	1552.6
65°	169.5	173.6	218.4	316.6	494.7	843.9	1537.5	2175.2	2146.3	2236.3	1843.9
67°	125.9	125.9	157.3	215.2	313.4	573.8	1311.3	2233.5	2286.1	2333.7	1902.6
67.5°	112.9	119.0	145.9	198.5	281.2	509.0	1227.0	2218.0	2295.0	2324.8	1882.2
70°	77.4	81.5	104.7	142.2	189.5	264.9	804.4	1961.7	2211.1	2180.9	1705.8
72.5°	46.5	48.1	69.3	102.3	141.4	141.8	438.9	1489.0	1873.7	1873.3	1393.2
75°	28.9	30.6	40.7	68.5	99.0	88.8	202.9	1013.0	1345.6	1319.5	933.6
77.5°	16.3	18.7	24.4	37.5	62.8	56.6	85.6	567.6	727.0	682.2	463.7
80°	6.5	7.7	13.9	17.9	35.5	33.8	35.0	199.7	294.2	265.3	155.3
82.5°	1.6	2.0	4.9	8.6	13.9	13.9	11.0	54.6	69.7	64.8	39.9
85°	0.0	0.0	0.4	0.4	0.4	0.8	2.9	6.1	7.3	8.6	6.5
87.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	1.2	1.2	1.2
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°	251.8	251.8	251.8	251.8	251.8	251.8	251.8	251.8	251.8	251.8	251.8
2.5°	253.5	250.6	244.9	238.8	232.7	227.8	223.7	218.0	217.2	217.2	217.2
5°	258.8	252.2	239.2	226.2	213.1	201.3	192.7	185.8	179.7	177.7	179.3
7.5°	266.5	254.7	231.9	209.0	188.7	172.0	159.7	150.0	145.5	143.0	141.0
10°	276.7	258.4	222.1	188.7	163.0	143.0	130.0	120.6	116.1	113.3	113.7
12.5°	287.7	261.2	209.9	166.7	138.1	119.8	108.8	101.1	93.7	89.2	90.5
15°	298.7	263.2	194.8	146.3	119.0	102.7	87.2	73.3	68.5	67.6	67.2
17.5°	310.9	262.8	178.1	127.1	102.7	79.9	64.4	62.8	62.3	62.3	61.9
20°	323.6	260.8	158.9	111.2	86.4	60.7	58.3	57.5	56.2	55.8	55.4
22.5°	337.4	257.1	141.4	97.4	64.4	55.4	52.2	49.7	47.7	46.5	46.9
25°	350.0	250.2	124.3	84.4	55.0	49.7	45.2	41.6	39.5	37.9	38.3
27.5°	358.6	238.0	109.6	68.1	50.5	44.0	38.7	35.0	32.2	31.0	31.0
30°	359.4	220.5	96.6	55.8	46.0	38.7	33.0	28.9	27.3	26.5	26.1
32.5°	358.6	202.5	86.8	51.3	42.0	33.8	28.1	25.3	23.6	22.8	22.8
35°	362.7	184.2	77.8	47.3	37.5	29.7	24.9	22.0	20.8	20.0	20.0
37.5°	374.9	171.6	68.5	43.2	33.4	26.1	22.4	20.0	18.7	17.9	17.9
40°	391.6	161.0	57.0	39.1	29.3	23.6	20.4	18.3	16.7	15.9	15.9
42.5°	420.9	156.9	47.7	35.0	25.7	21.2	18.7	16.3	14.7	13.9	13.9
45°	464.5	158.9	43.6	31.4	23.2	19.2	16.7	14.3	12.6	12.2	12.2
47.5°	512.6	167.5	40.7	28.1	21.2	17.9	15.1	12.6	11.0	10.6	10.6
50°	566.4	180.9	38.3	24.9	19.2	16.3	13.4	11.0	9.8	9.4	9.4
52.5°	617.8	198.0	35.9	22.4	17.9	14.7	11.8	9.8	9.0	8.6	8.6
55°	656.9	209.0	33.8	20.8	16.7	13.4	10.6	9.4	8.1	7.7	7.7
57.5°	711.5	227.4	31.4	18.7	15.1	12.2	9.8	8.6	7.3	7.3	7.3
60°	822.3	276.7	27.7	17.1	13.4	11.0	9.4	7.7	6.9	6.5	6.5
62.5°	1022.0	358.2	24.0	15.9	11.8	9.8	8.1	6.9	6.1	5.3	5.3
65°	1214.3	392.0	20.4	13.9	10.6	8.6	7.3	6.1	4.5	3.7	3.7
67°	1203.7	335.4	17.1	11.8	9.0	7.7	6.1	4.9	3.3	2.0	2.0
67.5°	1175.2	312.1	16.7	11.4	8.6	7.3	6.1	4.5	2.9	1.6	1.6
70°	998.8	218.4	13.0	9.0	7.3	6.5	4.9	3.3	1.6	0.8	0.8
72.5°	811.3	173.2	10.2	7.3	6.1	4.9	4.1	2.0	1.2	0.4	0.4
75°	573.8	106.4	9.0	6.5	4.9	3.7	3.3	2.0	1.2	0.8	0.4
77.5°	283.2	48.9	7.3	5.7	4.5	3.7	2.9	2.4	2.0	1.6	0.8
80°	83.1	15.9	4.9	4.1	4.1	3.7	3.3	2.9	2.4	2.0	1.2
82.5°	18.7	5.7	1.6	2.0	2.9	2.9	2.9	2.0	1.6	0.8	0.4
85°	2.4	1.2	1.2	1.2	1.6	1.6	1.2	0.8	0.8	0.0	0.0
87.5°	0.8	0.8	0.8	1.2	1.2	1.2	0.8	0.4	0.4	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)