

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: P401387

Luminaire Tested: **ENV-SA1C-827-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401387
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-827-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 2509 lumens
Efficiency: N/A
Efficacy: 75.3 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

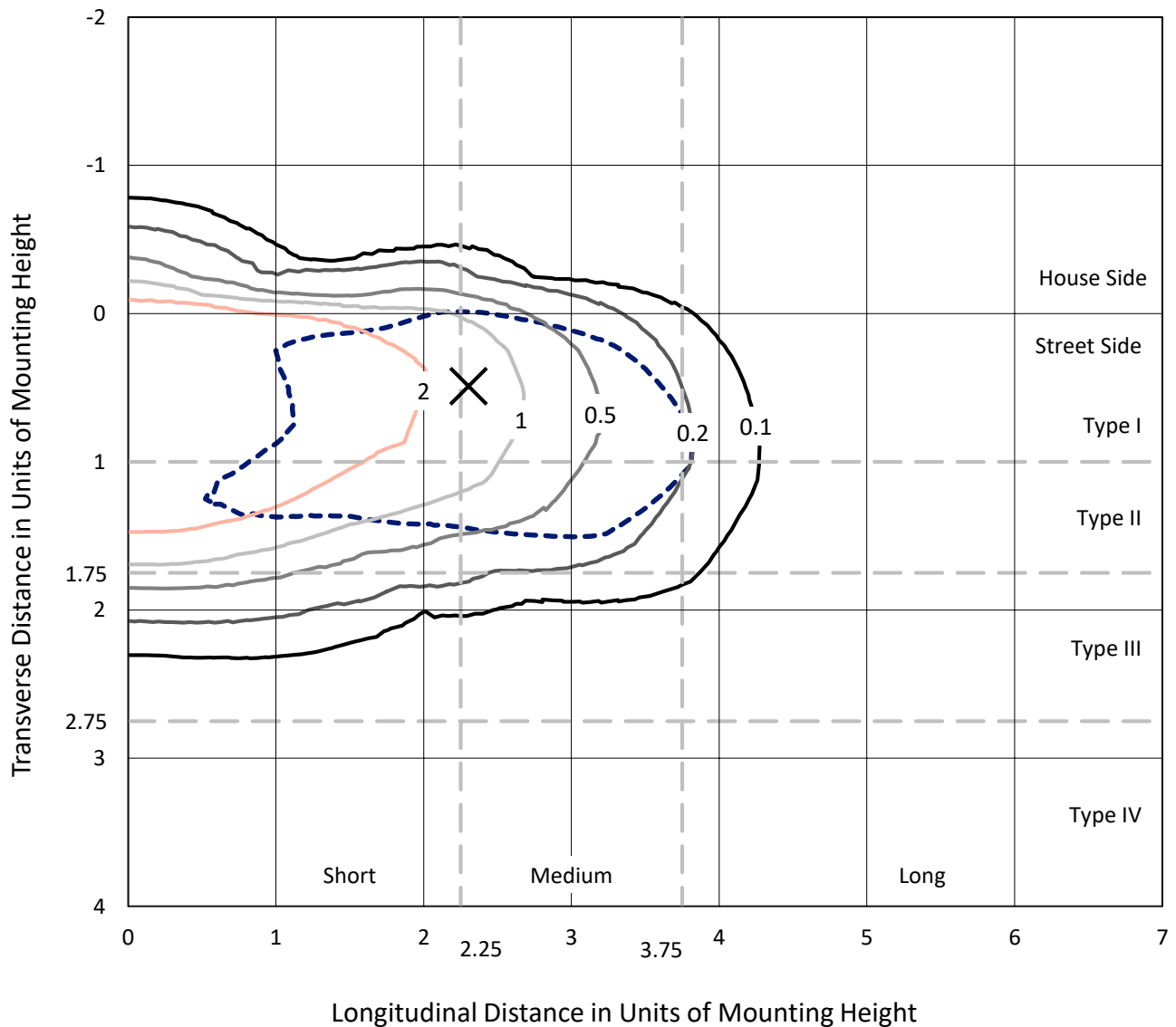


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

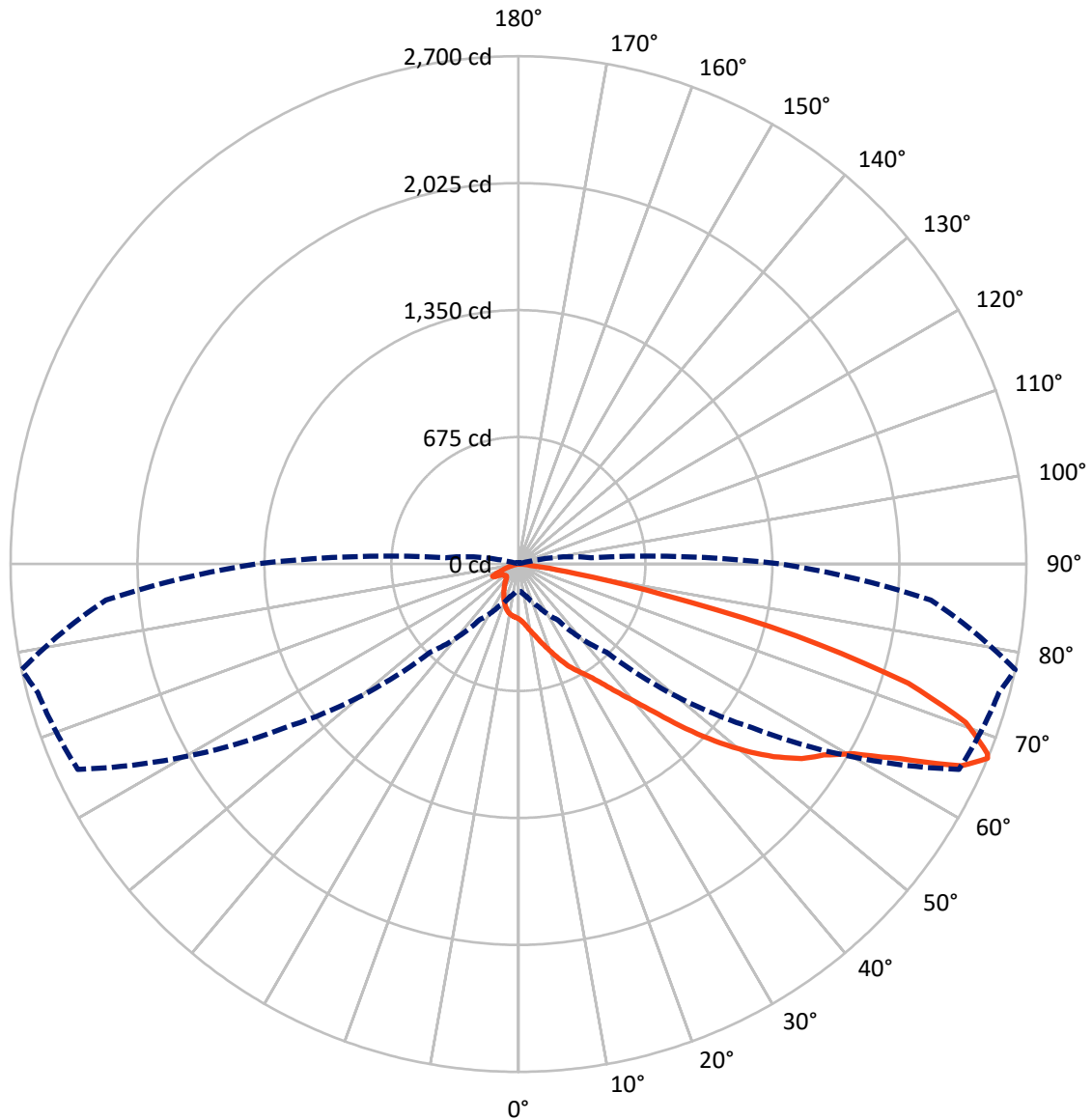


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - Semi-Cutoff

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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	177.0	0.0	177.0
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	2332.0	0.0	2332.0
	% Fixture	92.9	0.0	92.9
Total	Lumens	2509.0	0.0	2509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	1.1
10°-20°	80.4	3.2
20°-30°	142.1	5.7
30°-40°	250.6	10.0
40°-50°	430.6	17.2
50°-60°	648.2	25.8
60°-70°	637.9	25.4
70°-80°	278.7	11.1
80°-90°	12.3	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°	2509.0	100.0
0°-180°	2509.0	100.0



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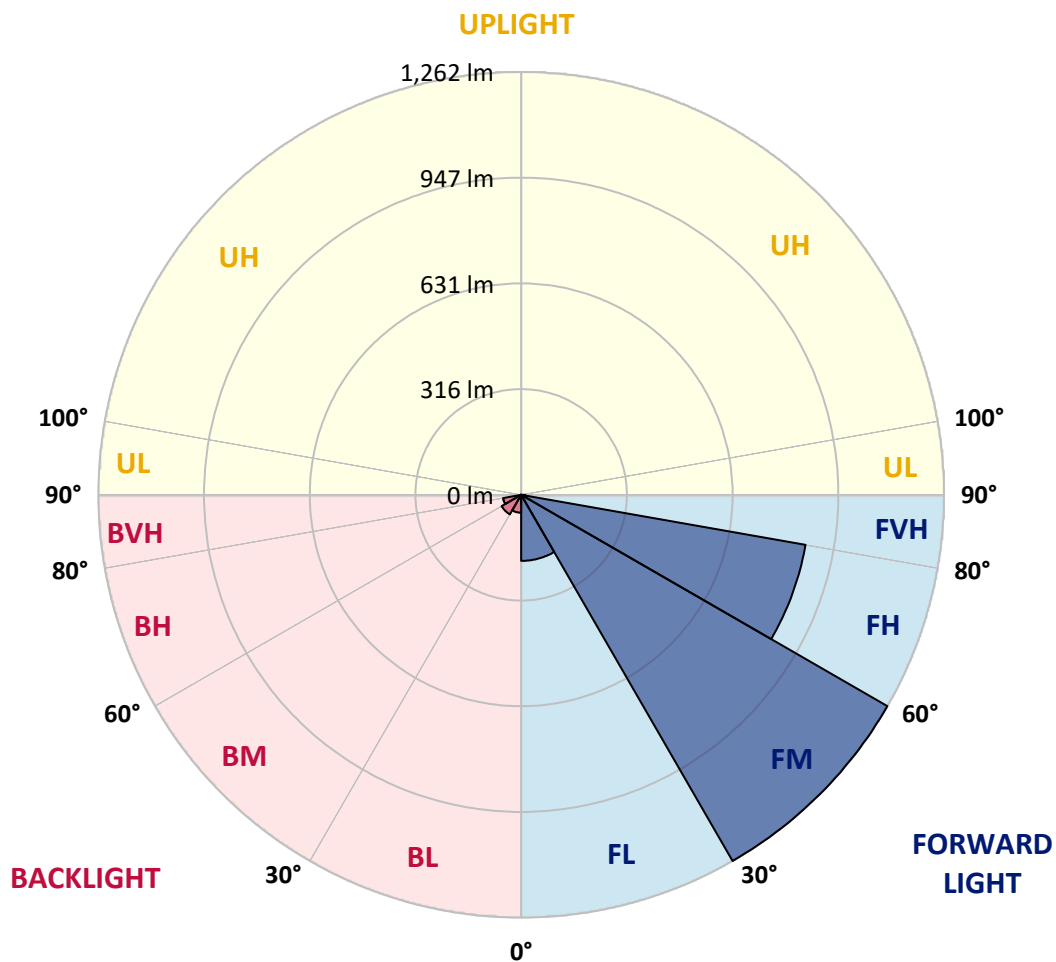
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.1	7.9			
FM (30°-60°)	1262.1	50.3			
FH (60°-80°)	861.7	34.3			G1/1800
FVH (80°-90°)	11.1	0.4			G1/100
BL (0°-30°)	53.5	2.1	B0/110		
BM (30°-60°)	67.3	2.7	B0/220		
BH (60°-80°)	54.9	2.2	B0/110		G0/110
BVH (80°-90°)	1.3	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°	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3
2.5°	334.2	335.6	333.7	332.3	328.5	323.8	319.1	312.0	304.5	301.7	297.0
5°	375.2	375.2	375.2	371.4	368.1	359.2	348.3	337.5	323.4	318.2	307.3
7.5°	396.9	397.4	398.8	398.8	396.9	390.8	379.0	366.7	345.5	338.4	321.0
10°	399.3	401.1	404.9	410.6	414.8	418.1	411.0	397.8	372.4	363.9	338.4
12.5°	393.1	394.1	400.2	410.6	424.2	437.9	438.4	430.4	402.1	390.3	359.7
15°	379.0	380.4	389.4	405.9	427.1	451.6	465.7	463.4	437.0	423.3	383.2
17.5°	356.4	357.8	369.1	393.6	424.7	460.5	490.7	502.5	471.4	458.2	407.3
20°	355.4	355.9	360.1	378.5	415.3	465.7	515.2	543.0	513.3	499.2	435.5
22.5°	415.8	412.0	402.6	390.8	406.8	464.3	537.4	585.9	565.2	543.0	468.1
25°	483.2	484.6	474.2	446.4	426.1	461.9	554.3	634.5	613.7	591.6	501.5
27.5°	553.9	551.5	542.6	517.1	483.2	478.9	566.6	673.6	660.4	633.5	531.2
30°	622.7	620.8	614.2	588.3	551.5	522.8	576.0	708.9	704.7	675.0	555.3
32.5°	701.4	704.7	696.2	662.3	617.5	582.1	596.3	746.2	758.4	722.1	580.3
35°	792.9	792.9	775.4	744.3	698.1	648.6	636.8	787.2	826.8	787.7	619.9
37.5°	868.3	874.4	864.0	819.2	775.9	724.0	698.6	837.6	911.2	871.6	673.1
40°	927.7	938.0	938.5	894.2	854.1	820.2	784.8	908.8	1017.2	966.3	736.8
42.5°	982.8	984.7	992.7	967.3	927.2	918.2	881.9	993.2	1149.7	1089.8	821.6
45°	1053.0	1056.8	1052.1	1033.3	998.8	1010.6	990.4	1100.2	1298.6	1248.2	921.5
47.5°	1156.3	1165.2	1158.2	1124.2	1082.3	1104.4	1089.8	1206.7	1466.9	1405.6	1030.0
50°	1252.9	1260.0	1267.5	1256.7	1214.7	1193.5	1175.6	1319.4	1611.2	1559.3	1136.5
52.5°	1263.3	1269.9	1311.4	1349.5	1377.4	1321.7	1265.6	1433.4	1744.6	1701.2	1234.1
55°	1195.9	1200.1	1269.4	1344.8	1472.6	1491.4	1398.1	1546.1	1856.3	1826.6	1299.6
57.5°	1008.3	1026.2	1124.7	1240.2	1449.0	1592.3	1586.2	1677.1	1928.9	1915.2	1384.0
60°	662.3	682.1	799.9	974.8	1275.5	1565.4	1792.6	1873.7	2030.7	2045.8	1532.0
62.5°	343.2	366.3	470.0	625.0	924.4	1363.2	1862.9	2196.6	2225.8	2277.2	1795.9
65°	196.1	200.8	252.7	366.3	572.2	976.2	1778.5	2516.2	2482.7	2586.9	2133.0
67°	145.7	145.7	182.0	248.9	362.5	663.7	1516.9	2583.6	2644.4	2699.6	2200.8
67.5°	130.6	137.6	168.8	229.6	325.2	588.7	1419.3	2565.7	2654.8	2689.2	2177.3
70°	89.6	94.3	121.1	164.5	219.2	306.4	930.5	2269.2	2557.7	2522.8	1973.2
72.5°	53.7	55.6	80.1	118.3	163.6	164.0	507.7	1722.4	2167.4	2166.9	1611.6
75°	33.5	35.4	47.1	79.2	114.5	102.8	234.7	1171.8	1556.5	1526.3	1079.9
77.5°	18.9	21.7	28.3	43.4	72.6	65.5	99.0	656.6	840.9	789.1	536.4
80°	7.5	9.0	16.0	20.7	41.0	39.1	40.5	231.0	340.3	306.9	179.6
82.5°	1.9	2.4	5.7	9.9	16.0	16.0	12.7	63.2	80.6	74.9	46.2
85°	0.0	0.0	0.5	0.5	0.5	0.9	3.3	7.1	8.5	9.9	7.5
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	1.4	1.4	1.4
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°	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3
2.5°	293.2	289.9	283.3	276.2	269.2	263.5	258.8	252.2	251.2	251.2	251.2
5°	299.3	291.8	276.7	261.6	246.5	232.9	223.0	214.9	207.9	205.5	207.4
7.5°	308.3	294.6	268.2	241.8	218.2	198.9	184.8	173.5	168.3	165.5	163.1
10°	320.1	298.9	256.9	218.2	188.5	165.5	150.4	139.5	134.3	131.0	131.5
12.5°	332.8	302.2	242.8	192.8	159.8	138.6	125.9	116.9	108.4	103.2	104.6
15°	345.5	304.5	225.3	169.2	137.6	118.8	100.9	84.8	79.2	78.2	77.8
17.5°	359.7	304.0	206.0	147.1	118.8	92.4	74.5	72.6	72.1	72.1	71.6
20°	374.3	301.7	183.8	128.7	99.9	70.2	67.4	66.5	65.0	64.6	64.1
22.5°	390.3	297.4	163.6	112.7	74.5	64.1	60.3	57.5	55.2	53.7	54.2
25°	404.9	289.4	143.8	97.6	63.6	57.5	52.3	48.1	45.7	43.8	44.3
27.5°	414.8	275.3	126.8	78.7	58.5	50.9	44.8	40.5	37.2	35.8	35.8
30°	415.8	255.0	111.7	64.6	53.3	44.8	38.2	33.5	31.6	30.6	30.2
32.5°	414.8	234.3	100.4	59.4	48.6	39.1	32.5	29.2	27.3	26.4	26.4
35°	419.5	213.1	90.0	54.7	43.4	34.4	28.8	25.5	24.0	23.1	23.1
37.5°	433.7	198.4	79.2	50.0	38.7	30.2	25.9	23.1	21.7	20.7	20.7
40°	453.0	186.2	66.0	45.3	33.9	27.3	23.6	21.2	19.3	18.4	18.4
42.5°	486.9	181.5	55.2	40.5	29.7	24.5	21.7	18.9	17.0	16.0	16.0
45°	537.4	183.8	50.4	36.3	26.9	22.2	19.3	16.5	14.6	14.1	14.1
47.5°	593.0	193.7	47.1	32.5	24.5	20.7	17.4	14.6	12.7	12.3	12.3
50°	655.2	209.3	44.3	28.8	22.2	18.9	15.6	12.7	11.3	10.8	10.8
52.5°	714.6	229.1	41.5	25.9	20.7	17.0	13.7	11.3	10.4	9.9	9.9
55°	759.9	241.8	39.1	24.0	19.3	15.6	12.3	10.8	9.4	9.0	9.0
57.5°	823.0	263.0	36.3	21.7	17.4	14.1	11.3	9.9	8.5	8.5	8.5
60°	951.2	320.1	32.1	19.8	15.6	12.7	10.8	9.0	8.0	7.5	7.5
62.5°	1182.2	414.3	27.8	18.4	13.7	11.3	9.4	8.0	7.1	6.1	6.1
65°	1404.7	453.5	23.6	16.0	12.3	9.9	8.5	7.1	5.2	4.2	4.2
67°	1392.4	387.9	19.8	13.7	10.4	9.0	7.1	5.7	3.8	2.4	2.4
67.5°	1359.4	361.1	19.3	13.2	9.9	8.5	7.1	5.2	3.3	1.9	1.9
70°	1155.3	252.7	15.1	10.4	8.5	7.5	5.7	3.8	1.9	0.9	0.9
72.5°	938.5	200.3	11.8	8.5	7.1	5.7	4.7	2.4	1.4	0.5	0.5
75°	663.7	123.0	10.4	7.5	5.7	4.2	3.8	2.4	1.4	0.9	0.5
77.5°	327.6	56.6	8.5	6.6	5.2	4.2	3.3	2.8	2.4	1.9	0.9
80°	96.2	18.4	5.7	4.7	4.7	4.2	3.8	3.3	2.8	2.4	1.4
82.5°	21.7	6.6	1.9	2.4	3.3	3.3	3.3	2.4	1.9	0.9	0.5
85°	2.8	1.4	1.4	1.4	1.9	1.9	1.4	0.9	0.9	0.0	0.0
87.5°	0.9	0.9	0.9	1.4	1.4	1.4	0.9	0.5	0.5	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)