

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: P597067

Luminaire Tested: **MSA-SA3C-835-U-T4W-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-835-U-T4W-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11315 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

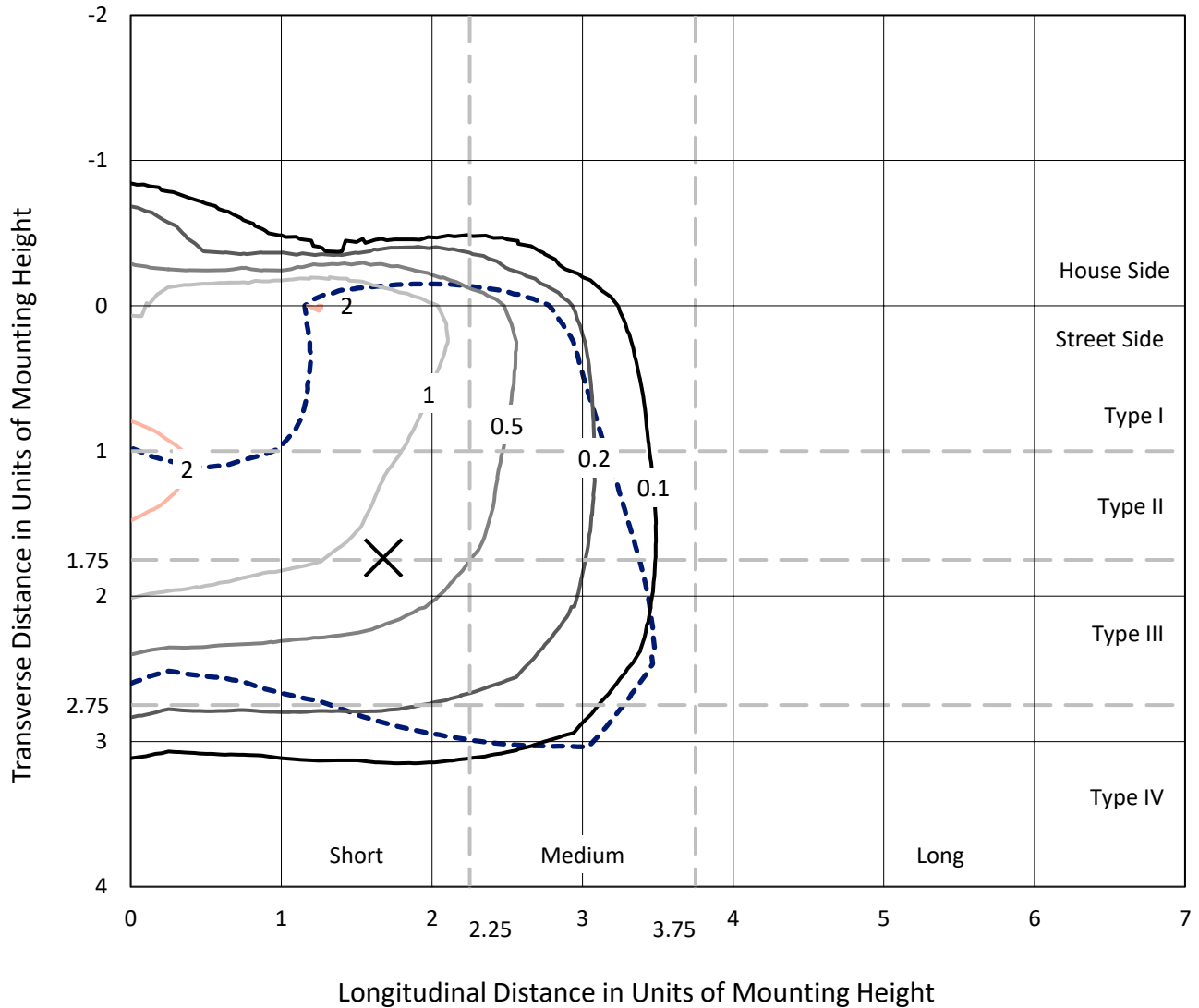
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

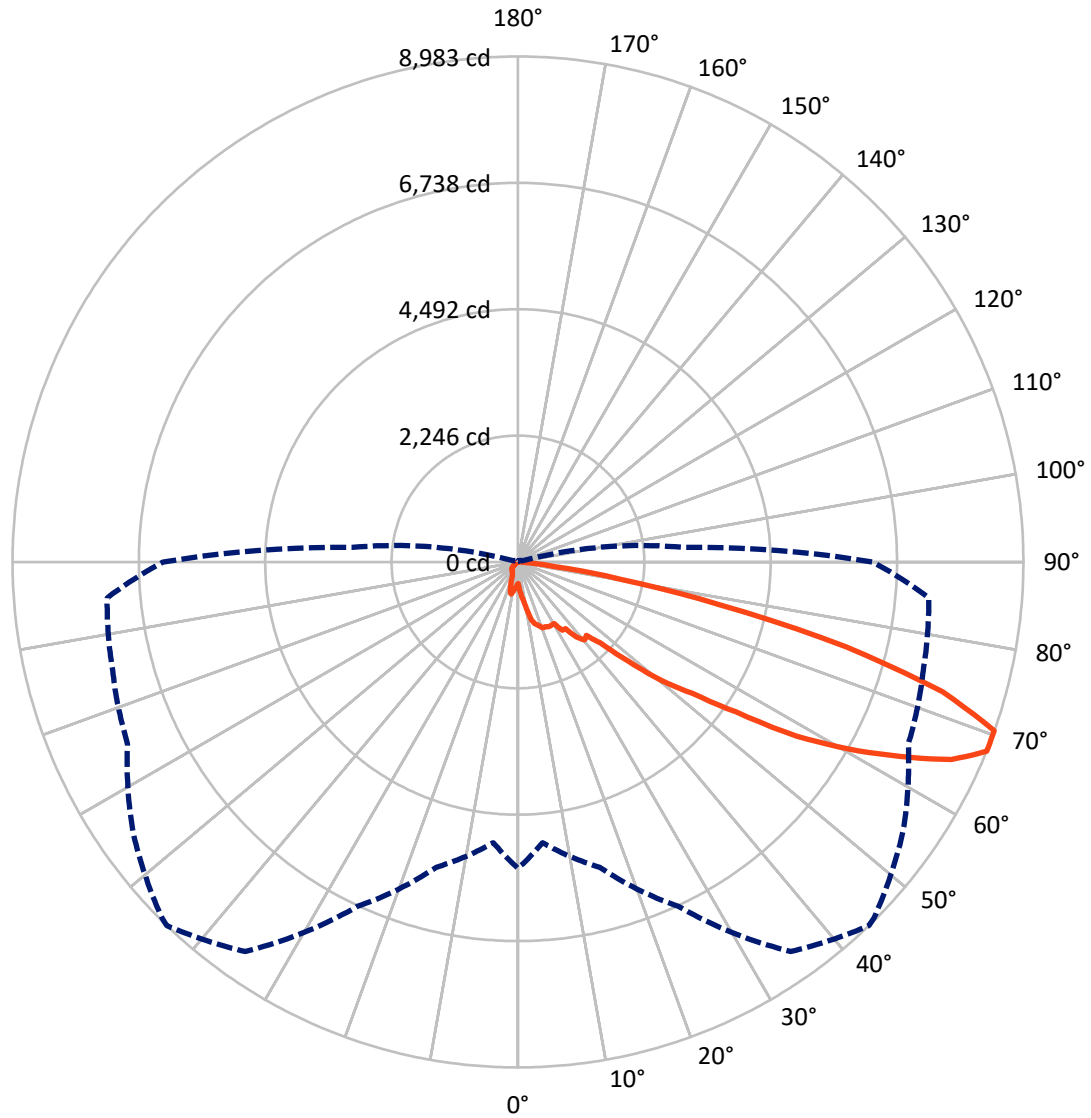
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1149.4	0.0	1149.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10165.6	0.0	10165.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	11315.0	0.0	11315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	0.5
10°-20°	236.6	2.1
20°-30°	419.1	3.7
30°-40°	681.1	6.0
40°-50°	1363.0	12.0
50°-60°	2796.3	24.7
60°-70°	3841.3	33.9
70°-80°	1805.5	16.0
80°-90°	115.6	1.0
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°	11315.0	100.0
0°-180°	11315.0	100.0

Coefficient of Utilization



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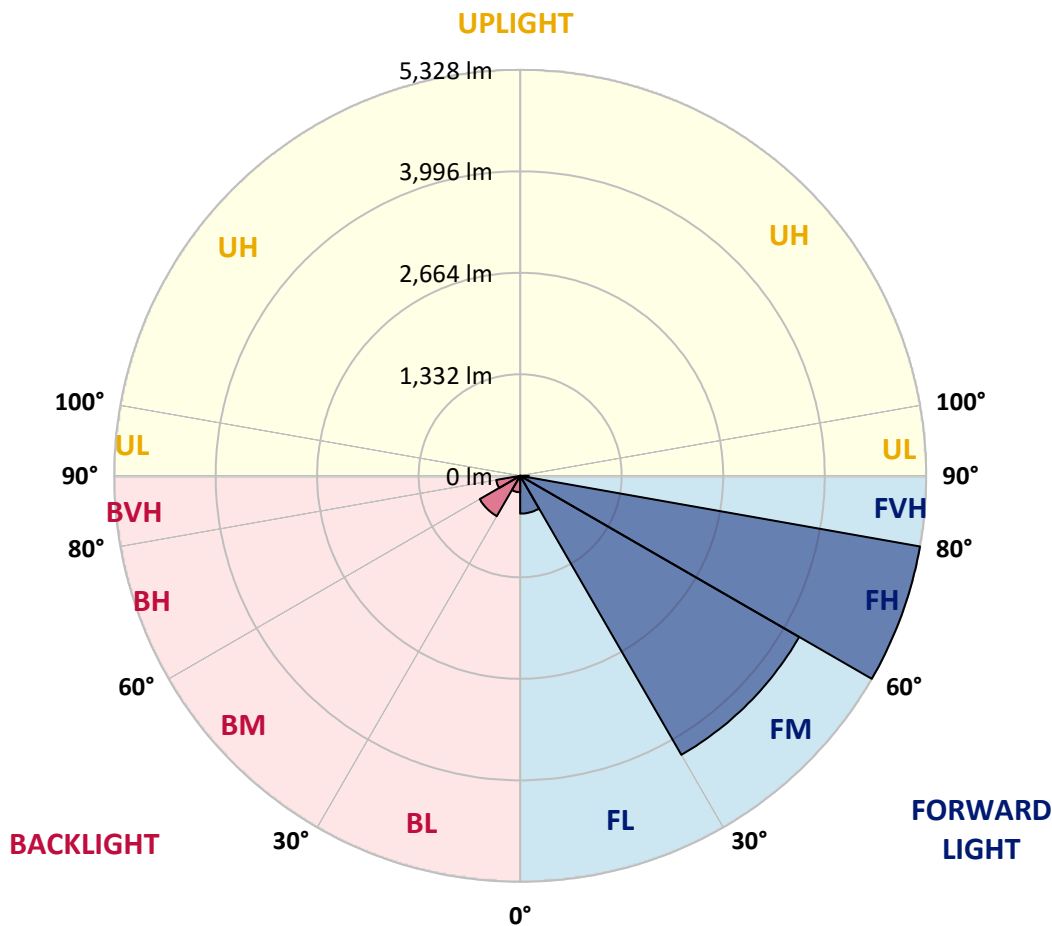
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.3	4.4			
FM (30°-60°)	4228.2	37.4			
FH (60°-80°)	5327.8	47.1			G3/7500
FVH (80°-90°)	113.3	1.0			G2/225
BL (0°-30°)	215.8	1.9	B1/500		
BM (30°-60°)	612.3	5.4	B1/1000		
BH (60°-80°)	319.0	2.8	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2
2.5°	484.8	469.2	446.7	451.7	454.2	461.1	461.7	453.0	428.0	421.2	451.7
5°	679.5	641.4	634.5	620.2	591.5	575.9	572.1	587.7	567.8	561.5	569.7
7.5°	867.9	835.4	799.9	780.5	720.6	683.8	682.0	688.2	691.9	670.1	681.3
10°	993.3	957.7	950.3	904.7	852.9	844.2	840.4	816.7	797.4	781.2	726.9
12.5°	1106.9	1106.2	1120.0	1054.5	1046.3	1055.1	1052.0	967.1	947.8	879.7	864.2
15°	1257.9	1295.3	1236.0	1181.1	1111.2	1141.2	1133.1	1078.8	1065.7	1019.5	952.7
17.5°	1414.5	1424.4	1325.2	1241.0	1222.9	1183.6	1191.7	1172.4	1106.2	1143.0	1076.9
20°	1418.2	1440.0	1334.0	1194.8	1250.4	1248.5	1249.1	1230.4	1143.0	1229.2	1168.6
22.5°	1470.6	1417.0	1318.4	1229.8	1239.8	1249.1	1259.1	1236.0	1217.3	1238.5	1249.7
25°	1449.4	1428.2	1333.4	1274.7	1265.3	1272.8	1275.3	1304.6	1292.8	1344.0	1315.9
27.5°	1504.3	1473.7	1304.0	1314.6	1281.6	1272.8	1257.9	1355.8	1390.8	1350.2	1425.1
30°	1598.5	1594.2	1354.6	1370.2	1344.6	1267.8	1307.8	1435.7	1479.4	1454.4	1545.5
32.5°	1745.8	1760.7	1502.4	1401.4	1414.5	1448.8	1433.8	1435.7	1546.1	1601.6	1674.0
35°	1954.8	1946.7	1646.6	1519.9	1451.3	1456.9	1478.1	1579.8	1722.7	1718.9	1795.7
37.5°	2365.3	2276.7	1901.8	1641.0	1661.5	1689.6	1674.0	1810.7	1824.4	1829.4	2012.8
40°	2970.6	2852.6	2304.2	1896.1	1697.7	1821.9	1814.4	1848.1	1939.8	1974.1	2241.8
42.5°	3767.9	3609.5	3012.4	2365.3	1872.4	1787.0	1833.1	1896.8	2205.0	2302.9	2596.2
45°	4648.9	4328.2	3718.7	3034.2	2310.4	2045.3	2080.2	2198.7	2626.1	2788.4	3112.2
47.5°	5219.8	4937.8	4418.1	3626.9	2767.2	2628.0	2631.1	2656.7	3120.9	3421.7	3855.9
50°	5715.9	5415.8	4933.5	4246.5	3575.2	3311.8	3252.0	3134.0	3751.1	4162.3	4644.0
52.5°	6415.9	6065.3	5448.8	4973.4	4496.7	3876.5	3855.3	3895.2	4494.2	4926.6	5451.9
55°	7047.4	6621.2	6032.8	5733.3	5547.4	4706.3	4724.4	4791.2	5448.2	5677.2	6170.7
57.5°	7326.3	6864.5	6561.9	6427.2	6328.0	5840.0	5778.9	5739.0	6200.7	6288.0	6923.8
60°	7509.1	7069.8	6932.5	6963.7	7264.5	6746.6	6691.1	6459.0	6823.4	6895.1	7598.9
62.5°	7393.6	6993.1	7022.4	7282.6	7950.2	7609.5	7449.2	7061.1	7332.5	7390.5	8083.7
65°	6666.8	6249.3	6626.2	7255.7	8473.0	8464.9	8390.7	7617.0	7614.5	7688.8	8121.1
67.5°	5445.7	5007.7	5617.3	6752.9	8451.2	8983.4	8948.5	8354.5	7655.1	7456.7	7328.7
70°	3786.0	3406.1	4097.4	5576.7	7698.1	8979.7	8923.5	8849.9	7334.4	6418.4	5682.2
72.5°	1967.3	1758.3	2402.2	3842.8	6136.4	7889.7	8075.0	7953.9	6262.4	4663.3	3346.2
75°	668.2	599.6	990.8	2039.6	4079.3	6024.7	6241.9	6118.9	4253.4	2502.0	1323.4
77.5°	258.9	240.8	355.0	828.0	2046.5	3671.2	3907.1	3781.7	2281.1	916.6	311.3
80°	147.2	142.3	195.9	373.1	902.2	1826.3	1992.2	1806.9	822.3	308.8	81.1
82.5°	62.4	64.3	109.2	201.5	453.6	644.5	718.8	655.8	344.4	211.5	29.9
85°	13.7	16.8	51.8	112.3	190.3	184.1	192.8	214.0	211.5	155.4	13.1
87.5°	0.0	0.0	16.2	30.6	45.5	29.9	23.7	41.8	64.9	62.4	5.6
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°	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2
2.5°	457.3	451.1	411.8	409.3	411.8	404.9	404.3	390.0	391.2	423.7	426.1
5°	569.7	538.5	504.8	494.2	484.2	461.7	474.2	474.2	474.2	494.8	501.0
7.5°	671.4	629.6	582.1	542.2	503.5	475.4	494.8	508.5	516.6	543.4	555.9
10°	717.5	676.3	633.9	577.1	547.2	536.6	514.1	502.3	516.6	511.0	517.9
12.5°	816.1	778.7	705.7	647.0	624.6	588.4	522.2	476.1	445.5	440.5	439.3
15°	912.2	889.1	791.2	712.5	634.5	550.9	438.0	376.9	344.4	338.8	339.4
17.5°	1033.9	1000.8	856.7	743.7	611.5	461.1	338.2	285.8	283.3	297.0	298.2
20°	1115.0	1060.7	889.7	718.1	535.3	348.8	264.5	252.1	272.0	297.0	294.5
22.5°	1192.3	1133.7	933.4	695.7	414.9	264.5	243.3	244.6	261.4	288.3	295.1
25°	1243.5	1222.3	987.1	643.3	316.3	229.0	232.7	242.1	256.4	282.0	282.0
27.5°	1397.6	1298.4	980.8	541.6	243.3	213.4	222.1	234.0	241.5	272.0	275.2
30°	1491.2	1458.8	1013.3	438.0	213.4	193.4	210.3	220.9	225.9	260.8	262.1
32.5°	1606.0	1534.3	1052.6	323.2	198.4	192.2	188.4	196.5	210.9	241.5	243.3
35°	1745.8	1724.6	996.4	253.9	193.4	179.7	172.2	176.6	185.9	206.5	210.9
37.5°	2030.9	1904.9	962.7	217.8	193.4	175.3	167.2	156.0	157.2	171.6	179.7
40°	2271.1	2232.4	868.5	211.5	184.7	169.1	149.1	135.4	126.0	130.4	133.5
42.5°	2712.2	2533.2	746.9	208.4	176.6	152.9	126.7	112.3	98.0	99.2	104.2
45°	3247.6	2861.4	638.3	205.3	171.0	136.6	106.7	89.8	74.9	75.5	80.5
47.5°	3962.6	3339.9	506.6	195.9	161.0	121.7	86.1	68.6	59.9	61.8	66.1
50°	4775.0	3759.8	400.6	181.6	149.1	107.3	69.9	55.5	52.4	54.3	59.3
52.5°	5500.6	4069.3	330.7	168.5	132.3	87.4	58.6	49.3	48.0	49.3	53.0
55°	6145.8	4249.0	276.4	153.5	113.6	70.5	53.0	45.5	44.9	44.3	46.8
57.5°	6751.0	4300.8	215.9	129.8	92.3	61.1	49.3	42.4	41.2	39.3	41.2
60°	7192.1	4212.2	158.5	104.2	75.5	55.5	46.2	38.1	36.2	33.1	34.3
62.5°	7404.9	3969.5	119.8	83.6	64.3	50.5	41.2	33.1	30.6	26.8	27.5
65°	7202.7	3569.5	94.2	70.5	54.9	42.4	34.9	28.1	25.0	21.2	21.2
67.5°	6307.4	2961.2	79.9	61.1	46.2	36.2	28.7	25.6	20.6	17.5	16.8
70°	4629.6	2130.1	68.6	53.7	39.9	31.2	24.3	23.1	20.0	16.8	15.6
72.5°	2613.0	1205.4	58.6	47.4	33.7	26.2	20.6	21.2	19.3	15.6	14.4
75°	997.0	406.2	48.7	39.3	27.5	20.0	17.5	17.5	17.5	13.1	11.2
77.5°	247.1	103.6	38.7	31.8	21.8	13.1	14.4	15.0	15.0	11.2	8.1
80°	68.0	34.9	23.1	23.1	15.6	7.5	10.0	10.0	8.1	3.7	0.0
82.5°	25.0	13.1	8.1	10.0	6.9	2.5	3.7	2.5	1.9	0.0	0.0
85°	10.6	6.9	5.0	5.6	3.1	0.0	0.6	1.2	0.0	0.0	0.0
87.5°	4.4	3.1	2.5	2.5	1.2	0.0	0.0	0.0	0.0	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)