

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: P367961

Luminaire Tested: **MSA-SA3C-730-U-T4W-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-15)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-730-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: 12500 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

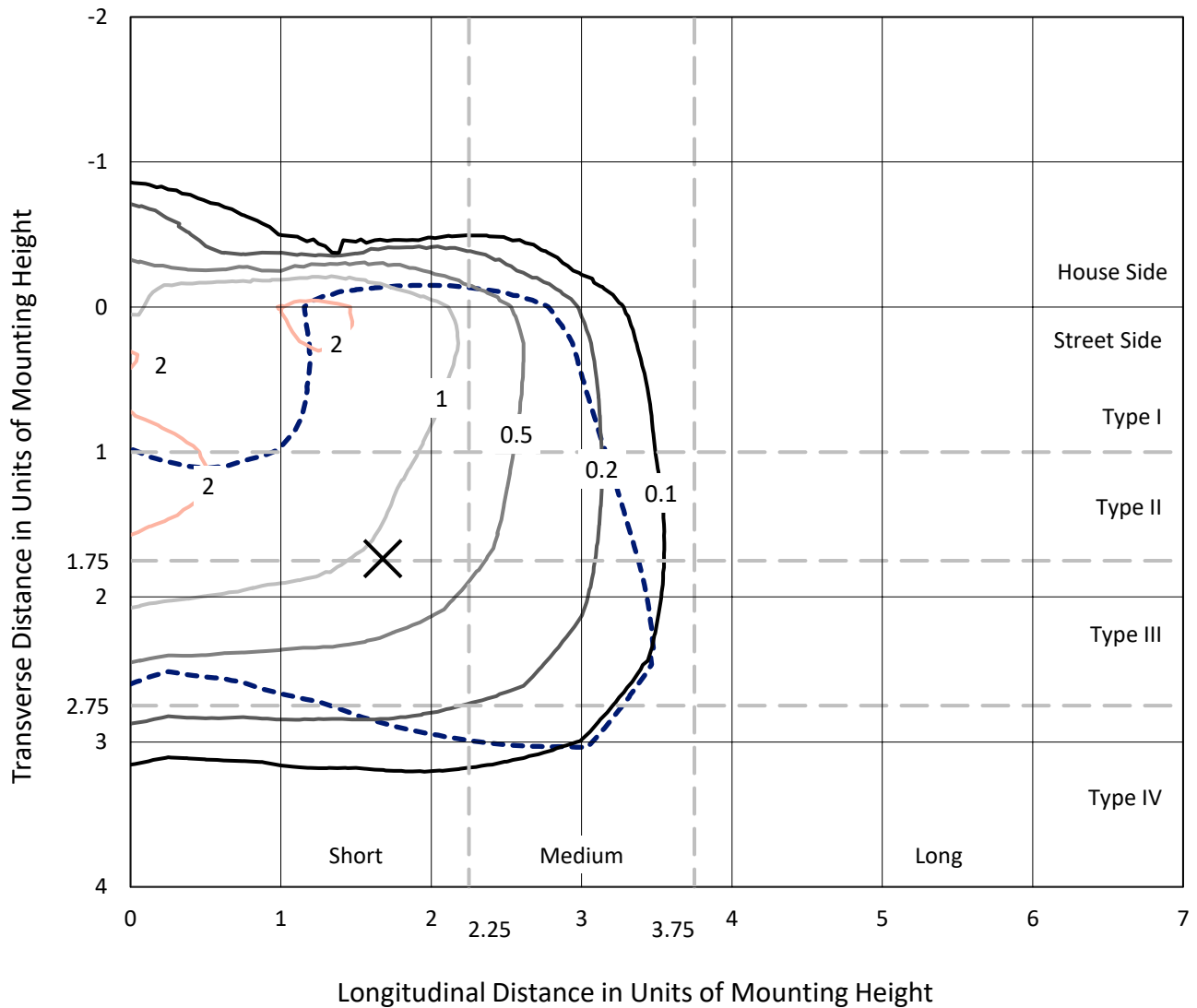
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

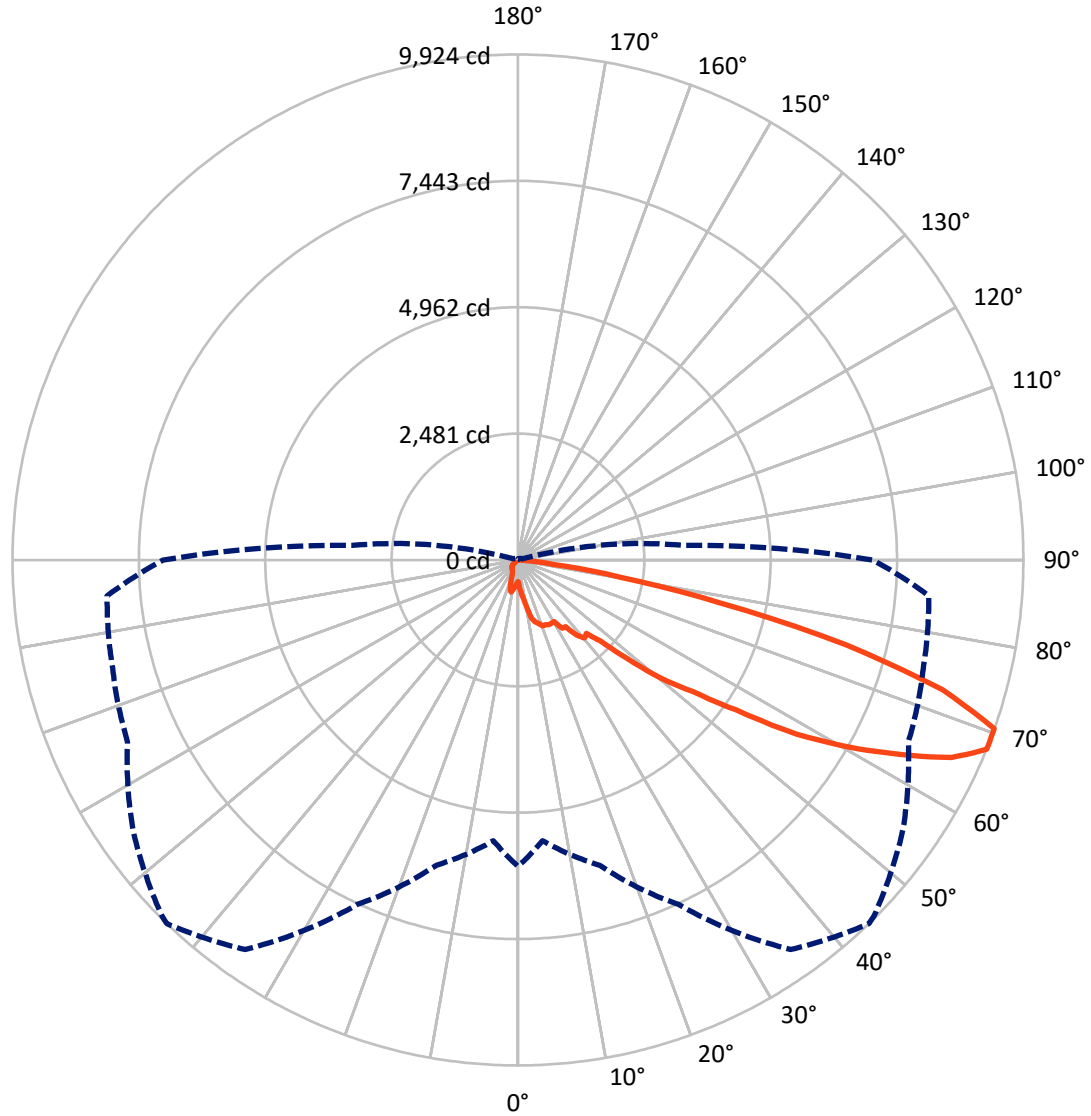
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1269.8	0.0	1269.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	11230.2	0.0	11230.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	12500.0	0.0	12500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	0.5
10°-20°	261.3	2.1
20°-30°	463.0	3.7
30°-40°	752.5	6.0
40°-50°	1505.8	12.0
50°-60°	3089.2	24.7
60°-70°	4243.6	33.9
70°-80°	1994.5	16.0
80°-90°	127.7	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°	12500.0	100.0
0°-180°	12500.0	100.0

Coefficient of Utilization

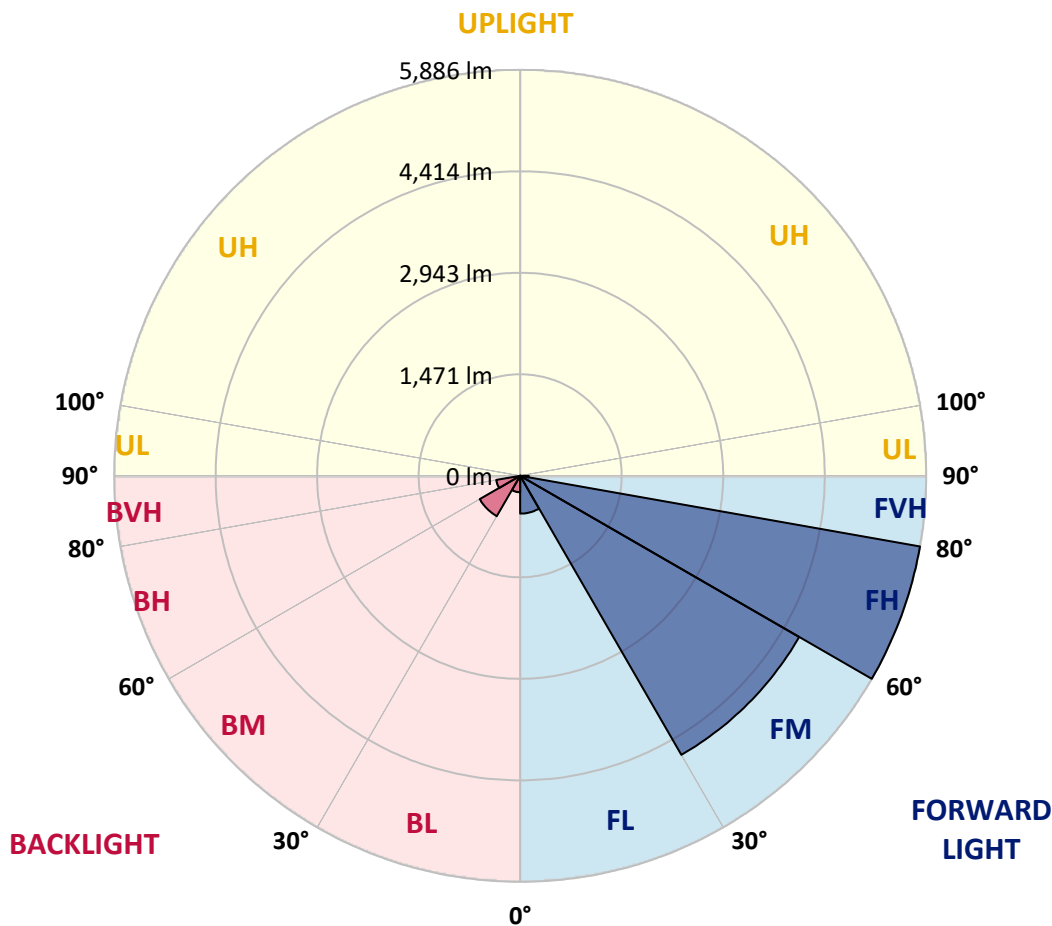


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.3	4.4			
FM (30°-60°)	4671.0	37.4			
FH (60°-80°)	5885.8	47.1			G3/7500
FVH (80°-90°)	125.1	1.0			G2/225
BL (0°-30°)	238.4	1.9	B1/500		
BM (30°-60°)	676.4	5.4	B1/1000		
BH (60°-80°)	352.4	2.8	B1/500		G1/500
BVH (80°-90°)	2.6	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°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1
2.5°	535.6	518.3	493.5	499.0	501.8	509.4	510.1	500.4	472.8	465.3	499.0
5°	750.6	708.6	701.0	685.1	653.4	636.2	632.1	649.3	627.2	620.4	629.3
7.5°	958.8	922.9	883.7	862.3	796.1	755.5	753.4	760.3	764.4	740.3	752.7
10°	1097.3	1058.0	1049.8	999.5	942.2	932.6	928.5	902.3	880.9	863.0	803.0
12.5°	1222.8	1222.1	1237.3	1164.9	1155.9	1165.6	1162.1	1068.4	1047.0	971.9	954.7
15°	1389.6	1430.9	1365.5	1304.8	1227.6	1260.7	1251.7	1191.8	1177.3	1126.3	1052.5
17.5°	1562.6	1573.6	1464.0	1371.0	1351.0	1307.6	1316.5	1295.2	1222.1	1262.8	1189.7
20°	1566.7	1590.9	1473.7	1320.0	1381.3	1379.2	1379.9	1359.3	1262.8	1357.9	1291.0
22.5°	1624.6	1565.4	1456.4	1358.6	1369.6	1379.9	1391.0	1365.5	1344.8	1368.2	1380.6
25°	1601.2	1577.8	1473.0	1408.2	1397.9	1406.1	1408.9	1441.3	1428.2	1484.7	1453.7
27.5°	1661.9	1628.1	1440.6	1452.3	1415.8	1406.1	1389.6	1497.8	1536.4	1491.6	1574.3
30°	1765.9	1761.1	1496.4	1513.7	1485.4	1400.6	1444.7	1586.0	1634.3	1606.7	1707.3
32.5°	1928.6	1945.1	1659.8	1548.1	1562.6	1600.5	1584.0	1586.0	1708.0	1769.4	1849.3
35°	2159.5	2150.6	1819.0	1679.1	1603.3	1609.5	1632.9	1745.3	1903.1	1899.0	1983.7
37.5°	2613.1	2515.2	2100.9	1812.8	1835.6	1866.6	1849.3	2000.3	2015.5	2021.0	2223.6
40°	3281.7	3151.4	2545.5	2094.7	1875.5	2012.7	2004.4	2041.6	2143.0	2180.9	2476.6
42.5°	4162.6	3987.5	3327.8	2613.1	2068.5	1974.1	2025.1	2095.4	2435.9	2544.1	2868.1
45°	5135.8	4781.5	4108.1	3352.0	2552.4	2259.5	2298.1	2429.0	2901.2	3080.4	3438.1
47.5°	5766.5	5455.0	4880.8	4006.8	3057.0	2903.2	2906.7	2935.0	3447.8	3780.0	4259.7
50°	6314.5	5982.9	5450.1	4691.2	3949.6	3658.7	3592.5	3462.2	4143.9	4598.2	5130.3
52.5°	7087.9	6700.5	6019.5	5494.2	4967.6	4282.5	4259.1	4303.2	4964.9	5442.5	6022.9
55°	7785.4	7314.6	6664.6	6333.8	6128.4	5199.2	5219.2	5293.0	6018.8	6271.8	6817.0
57.5°	8093.5	7583.5	7249.1	7100.3	6990.7	6451.7	6384.1	6340.0	6850.1	6946.6	7648.9
60°	8295.5	7810.2	7658.6	7693.0	8025.3	7453.2	7391.8	7135.4	7538.0	7617.2	8394.7
62.5°	8168.0	7725.4	7757.8	8045.3	8782.8	8406.4	8229.3	7800.6	8100.4	8164.5	8930.3
65°	7364.9	6903.8	7320.1	8015.6	9360.4	9351.5	9269.4	8414.7	8412.0	8494.0	8971.7
67.5°	6016.0	5532.2	6205.6	7460.1	9336.3	9924.2	9885.6	9229.4	8456.8	8237.6	8096.3
70°	4182.5	3762.8	4526.5	6160.8	8504.3	9920.1	9858.1	9776.7	8102.5	7090.6	6277.3
72.5°	2173.3	1942.4	2653.7	4245.3	6779.1	8715.9	8920.7	8786.9	6918.3	5151.7	3696.6
75°	738.2	662.4	1094.6	2253.3	4506.5	6655.7	6895.5	6759.8	4698.8	2764.0	1462.0
77.5°	286.1	266.1	392.2	914.7	2260.8	4055.7	4316.3	4177.7	2520.0	1012.6	344.0
80°	162.7	157.2	216.4	412.2	996.7	2017.5	2200.9	1996.2	908.5	341.2	89.6
82.5°	68.9	71.0	120.6	222.6	501.1	712.0	794.0	724.4	380.5	233.7	33.1
85°	15.2	18.6	57.2	124.1	210.2	203.3	213.0	236.4	233.7	171.6	14.5
87.5°	0.0	0.0	17.9	33.8	50.3	33.1	26.2	46.2	71.7	68.9	6.2
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°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1
2.5°	505.2	498.3	454.9	452.2	454.9	447.3	446.7	430.8	432.2	468.0	470.8
5°	629.3	594.8	557.6	545.9	534.9	510.1	523.9	523.9	523.9	546.6	553.5
7.5°	741.7	695.5	643.1	599.0	556.2	525.2	546.6	561.8	570.7	600.4	614.1
10°	792.7	747.2	700.3	637.6	604.5	592.8	568.0	554.9	570.7	564.5	572.1
12.5°	901.6	860.2	779.6	714.8	690.0	650.0	576.9	525.9	492.1	486.6	485.3
15°	1007.7	982.2	874.0	787.2	701.0	608.6	483.9	416.3	380.5	374.3	375.0
17.5°	1142.1	1105.6	946.4	821.6	675.5	509.4	373.6	315.7	312.9	328.1	329.5
20°	1231.7	1171.8	982.9	793.4	591.4	385.3	292.3	278.5	300.5	328.1	325.3
22.5°	1317.2	1252.4	1031.2	768.5	458.4	292.3	268.8	270.2	288.8	318.4	326.0
25°	1373.7	1350.3	1090.4	710.6	349.5	253.0	257.1	267.4	283.3	311.6	311.6
27.5°	1544.0	1434.4	1083.5	598.3	268.8	235.7	245.4	258.5	266.8	300.5	304.0
30°	1647.4	1611.5	1119.4	483.9	235.7	213.7	232.3	244.0	249.5	288.1	289.5
32.5°	1774.2	1694.9	1162.8	357.0	219.2	212.3	208.2	217.1	233.0	266.8	268.8
35°	1928.6	1905.2	1100.8	280.5	213.7	198.5	190.2	195.1	205.4	228.2	233.0
37.5°	2243.6	2104.4	1063.6	240.6	213.7	193.7	184.7	172.3	173.7	189.6	198.5
40°	2509.0	2466.2	959.5	233.7	204.0	186.8	164.7	149.6	139.2	144.1	147.5
42.5°	2996.3	2798.5	825.1	230.2	195.1	168.9	139.9	124.1	108.2	109.6	115.1
45°	3587.7	3161.0	705.1	226.8	188.9	151.0	117.9	99.3	82.7	83.4	88.9
47.5°	4377.6	3689.7	559.7	216.4	177.8	134.4	95.1	75.8	66.2	68.2	73.1
50°	5275.1	4153.6	442.5	200.6	164.7	118.6	77.2	61.3	57.9	60.0	65.5
52.5°	6076.7	4495.5	365.3	186.1	146.1	96.5	64.8	54.5	53.1	54.5	58.6
55°	6789.4	4694.0	305.4	169.6	125.4	77.9	58.6	50.3	49.6	48.9	51.7
57.5°	7458.0	4751.2	238.5	143.4	102.0	67.5	54.5	46.9	45.5	43.4	45.5
60°	7945.3	4653.3	175.1	115.1	83.4	61.3	51.0	42.0	40.0	36.5	37.9
62.5°	8180.4	4385.2	132.3	92.4	71.0	55.8	45.5	36.5	33.8	29.6	30.3
65°	7957.0	3943.4	104.1	77.9	60.7	46.9	38.6	31.0	27.6	23.4	23.4
67.5°	6967.9	3271.3	88.2	67.5	51.0	40.0	31.7	28.3	22.7	19.3	18.6
70°	5114.5	2353.2	75.8	59.3	44.1	34.5	26.9	25.5	22.1	18.6	17.2
72.5°	2886.7	1331.7	64.8	52.4	37.2	28.9	22.7	23.4	21.4	17.2	15.9
75°	1101.5	448.7	53.8	43.4	30.3	22.1	19.3	19.3	19.3	14.5	12.4
77.5°	273.0	114.4	42.7	35.2	24.1	14.5	15.9	16.5	16.5	12.4	9.0
80°	75.1	38.6	25.5	25.5	17.2	8.3	11.0	11.0	9.0	4.1	0.0
82.5°	27.6	14.5	9.0	11.0	7.6	2.8	4.1	2.8	2.1	0.0	0.0
85°	11.7	7.6	5.5	6.2	3.4	0.0	0.7	1.4	0.0	0.0	0.0
87.5°	4.8	3.4	2.8	2.8	1.4	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)