

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: P367275

Luminaire Tested: **MSA-SA2B-727-U-T3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2B-727-U-T3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6152 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

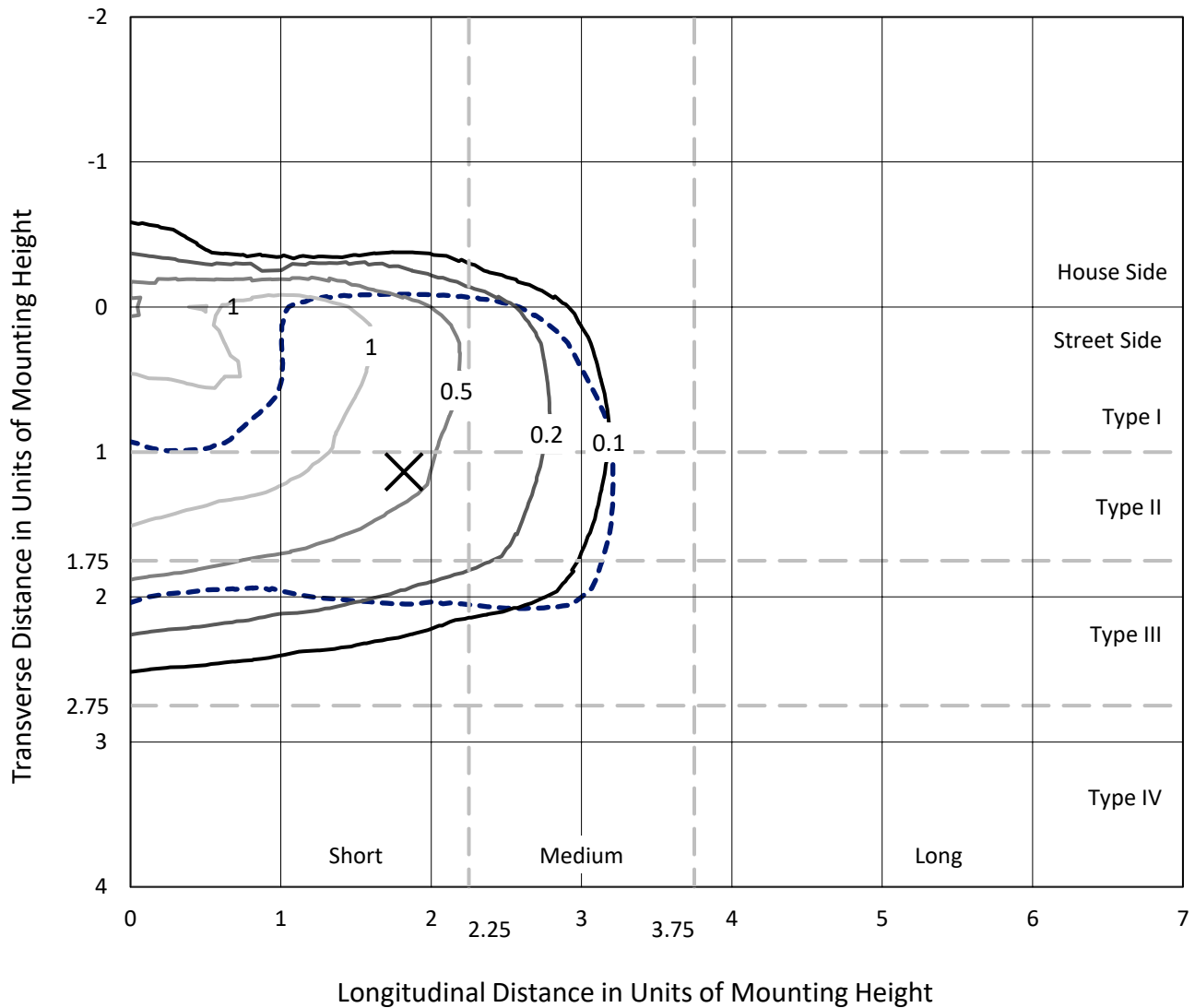
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

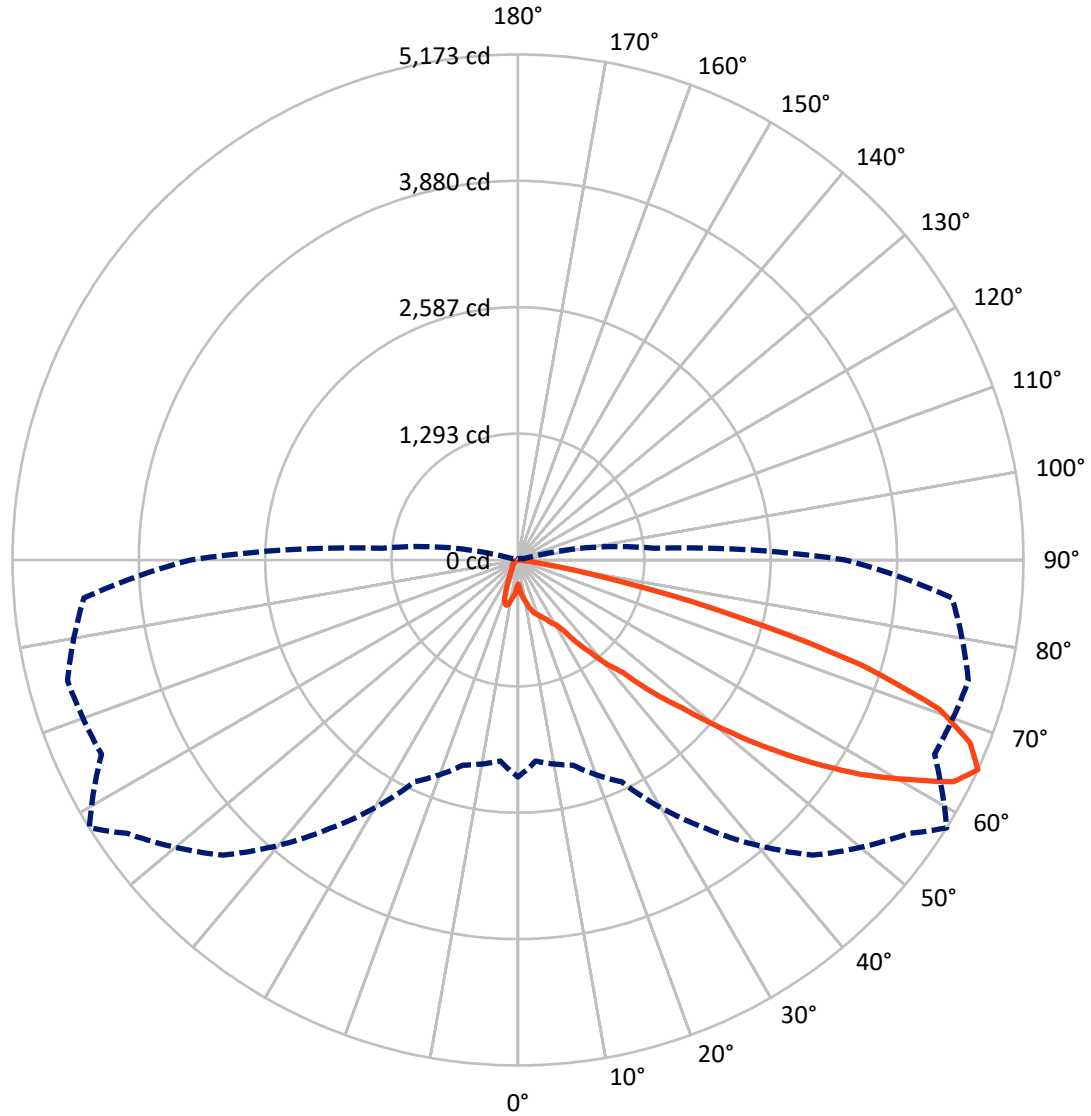
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	607.0	0.0	607.0
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	5545.0	0.0	5545.0
	% Fixture	90.1	0.0	90.1
Total	Lumens	6152.0	0.0	6152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	0.6
10°-20°	126.3	2.1
20°-30°	244.4	4.0
30°-40°	487.7	7.9
40°-50°	997.0	16.2
50°-60°	1768.4	28.7
60°-70°	1864.4	30.3
70°-80°	604.5	9.8
80°-90°	24.7	0.4
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°	6152.0	100.0
0°-180°	6152.0	100.0

Coefficient of Utilization

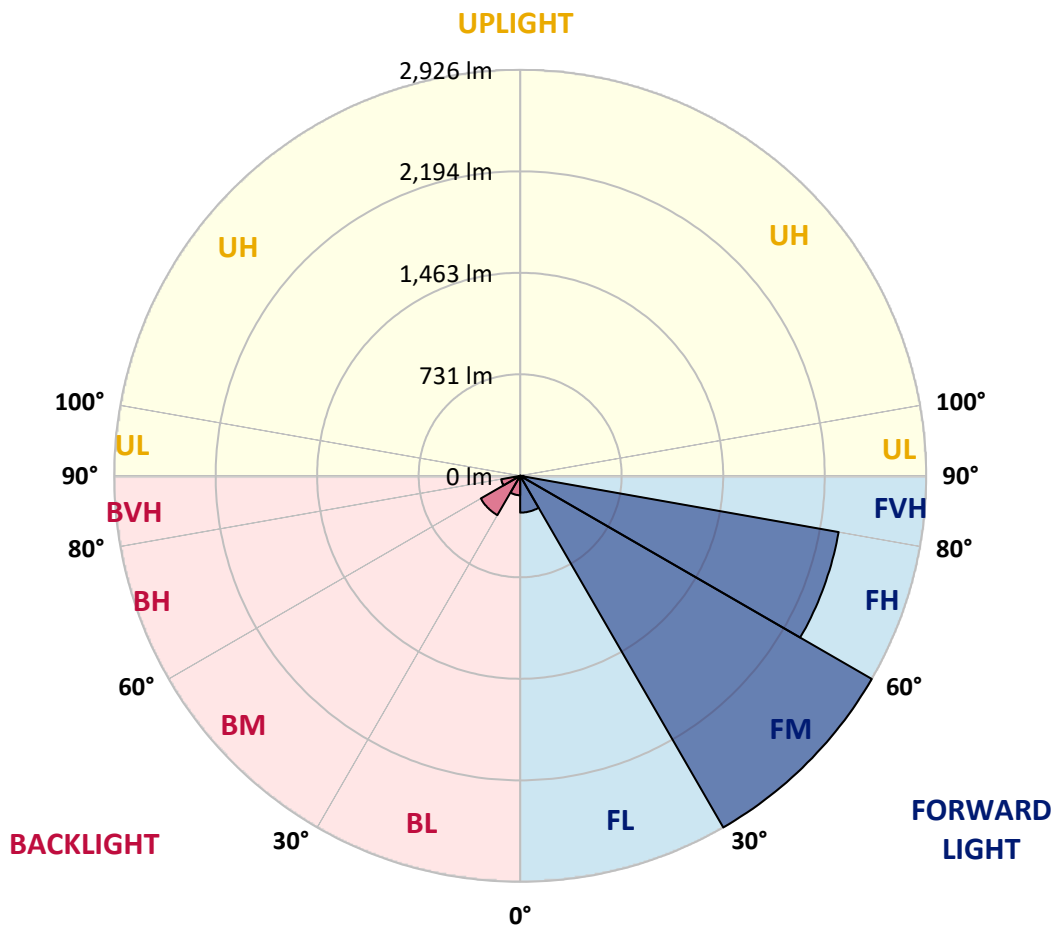


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.4	4.3			
FM (30°-60°)	2925.6	47.6			
FH (60°-80°)	2330.3	37.9			G2/5000
FVH (80°-90°)	23.7	0.4			G1/100
BL (0°-30°)	139.9	2.3	B1/500		
BM (30°-60°)	327.5	5.3	B1/1000		
BH (60°-80°)	138.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3
2.5°	300.7	291.6	277.4	279.9	282.6	288.2	283.7	279.5	275.0	269.1	291.6
5°	363.0	348.1	346.7	343.6	341.2	340.8	346.4	344.6	347.1	358.2	369.6
7.5°	385.9	379.6	367.9	372.7	365.1	359.2	383.8	391.8	407.0	412.2	442.0
10°	383.4	374.4	379.3	381.7	386.9	408.4	424.0	432.6	445.8	474.2	468.3
12.5°	394.5	402.5	407.7	408.0	434.7	474.2	485.3	492.5	516.1	527.2	556.3
15°	431.6	444.7	436.4	439.9	448.6	496.7	522.7	538.6	571.9	607.9	615.2
17.5°	484.6	492.9	475.6	463.1	487.0	513.3	560.4	577.1	598.2	682.4	697.9
20°	551.4	565.6	528.2	478.7	510.2	541.4	592.7	600.6	623.1	732.9	757.5
22.5°	707.6	686.5	629.4	552.1	542.8	556.6	605.5	636.6	674.7	761.3	818.5
25°	861.8	854.5	770.3	684.1	621.7	590.6	655.3	672.7	735.0	828.9	860.4
27.5°	1033.2	1047.8	907.2	854.9	732.6	630.8	686.5	729.8	803.6	853.5	929.3
30°	1259.4	1236.2	1071.3	1019.0	879.5	741.2	767.2	770.0	878.4	934.5	1006.6
32.5°	1436.8	1451.7	1244.5	1164.2	1052.6	911.3	827.8	863.9	941.5	1066.5	1134.7
35°	1628.7	1627.3	1425.3	1317.3	1171.4	1050.2	1007.6	1033.9	1131.3	1272.9	1290.9
37.5°	1915.5	1890.9	1652.6	1494.3	1370.3	1266.7	1234.1	1199.2	1299.6	1434.7	1502.2
40°	2186.0	2101.1	1880.8	1693.1	1534.5	1492.2	1374.4	1395.9	1425.7	1604.1	1790.8
42.5°	2459.3	2406.6	2112.2	1955.0	1759.9	1659.5	1582.6	1572.6	1714.2	1925.5	2118.4
45°	2819.9	2658.8	2423.3	2285.0	2059.2	1958.4	1896.4	1933.5	2060.9	2369.6	2498.1
47.5°	3122.6	2974.3	2772.1	2562.2	2325.2	2438.5	2322.1	2263.6	2438.5	2757.5	2928.3
50°	3382.7	3217.5	3012.8	2857.3	2818.8	2927.6	2692.0	2713.5	2827.1	3201.9	3298.2
52.5°	3571.8	3398.0	3219.2	3144.1	3301.7	3356.4	3238.3	3190.8	3294.0	3580.8	3627.6
55°	3714.2	3536.2	3396.6	3500.1	3805.0	3786.9	3828.5	3666.4	3765.1	3976.1	3953.9
57.5°	3722.9	3511.9	3430.2	3596.8	4015.2	4294.0	4415.6	4139.9	4196.0	4285.0	4235.2
60°	3450.6	3240.7	3234.1	3470.7	4076.2	4425.3	4691.3	4556.9	4481.8	4547.9	4453.4
62.5°	2908.2	2761.3	2829.9	3091.4	3849.3	4352.9	4838.2	5000.0	4707.3	4722.2	4587.8
65°	2220.6	2066.5	2173.9	2503.3	3353.3	4271.9	4879.8	5173.1	4703.1	4771.7	4458.9
67.5°	1470.7	1381.4	1502.9	1865.9	2666.1	3771.0	4858.3	4991.3	4553.8	4578.1	3980.6
70°	759.3	737.4	835.8	1122.3	1792.5	2897.1	4647.3	4574.6	4250.7	3943.8	3070.3
72.5°	243.2	244.2	338.8	512.6	966.4	1763.8	3572.2	3671.9	3401.4	2885.0	1874.6
75°	107.7	106.0	141.7	215.1	402.8	790.8	2219.2	2327.0	2117.7	1587.1	788.0
77.5°	77.6	75.2	90.8	125.7	199.5	268.1	1040.5	1123.0	960.2	550.0	180.5
80°	54.7	54.4	65.8	88.3	124.7	119.2	328.7	368.5	295.1	133.4	53.0
82.5°	30.8	31.9	45.7	62.3	75.9	59.6	92.5	101.8	99.4	71.0	23.2
85°	14.9	16.6	29.8	45.0	39.8	23.2	32.9	35.7	41.6	41.2	11.8
87.5°	0.0	0.0	12.1	20.4	10.7	3.5	10.0	11.4	11.1	13.2	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°	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3
2.5°	296.2	294.1	267.7	269.8	275.7	273.3	275.4	270.5	265.0	287.5	287.1
5°	374.4	358.8	350.5	342.9	344.3	328.7	337.7	341.9	341.2	354.0	357.5
7.5°	443.0	422.2	405.6	389.7	365.4	343.6	357.1	365.8	371.7	393.8	402.5
10°	475.2	458.3	451.7	420.5	403.2	389.7	373.4	361.6	366.5	360.6	366.5
12.5°	545.9	534.5	509.2	477.7	456.9	429.2	368.5	318.0	286.8	287.1	285.1
15°	610.3	609.6	571.9	519.6	459.3	380.3	285.8	222.0	192.6	184.3	181.5
17.5°	694.5	684.1	615.2	537.9	429.5	294.4	194.7	152.1	149.3	154.1	152.1
20°	748.2	732.9	636.6	511.3	354.0	199.2	146.9	134.7	143.1	150.0	148.2
22.5°	801.9	779.0	652.9	478.7	251.8	145.8	132.7	130.6	135.8	144.4	145.8
25°	831.3	826.8	684.8	417.7	172.5	127.8	127.8	127.1	128.9	135.1	134.0
27.5°	916.9	855.9	660.9	325.9	133.4	117.4	119.2	118.5	112.2	118.5	118.8
30°	970.2	942.1	662.6	232.1	117.4	103.9	108.4	102.9	93.5	98.7	97.7
32.5°	1077.6	1007.6	657.4	156.6	107.0	99.1	92.1	84.2	77.2	79.3	77.6
35°	1202.6	1149.3	587.1	125.7	99.8	87.6	76.5	68.6	61.3	63.0	62.7
37.5°	1451.3	1281.9	528.9	113.3	94.9	80.4	67.5	56.5	52.6	53.7	54.7
40°	1681.7	1503.3	420.5	107.7	86.6	71.7	55.8	47.8	45.4	46.1	47.1
42.5°	2026.0	1679.2	317.6	102.2	78.3	60.6	46.4	41.2	38.8	40.2	40.9
45°	2359.2	1828.9	237.3	97.3	71.4	52.3	39.1	35.7	32.9	33.9	35.3
47.5°	2692.0	1995.1	177.0	89.7	63.7	45.0	33.6	31.2	29.4	29.8	31.5
50°	2989.9	2072.7	139.2	80.4	57.5	39.1	30.5	28.1	27.4	27.7	29.1
52.5°	3208.8	2073.4	117.4	72.0	51.6	34.6	28.7	26.0	25.6	26.3	27.7
55°	3406.6	2018.0	101.8	64.8	46.4	31.5	27.4	24.9	24.9	25.6	27.0
57.5°	3537.9	1916.2	88.3	57.2	41.9	29.8	26.3	23.9	23.6	23.2	24.2
60°	3602.0	1777.3	74.8	50.2	37.8	28.7	25.6	21.1	20.8	20.1	20.8
62.5°	3561.4	1603.4	62.7	43.3	33.6	27.4	22.5	18.4	17.7	16.3	17.3
65°	3354.3	1392.1	53.0	37.1	29.1	23.2	19.1	15.6	13.9	12.1	11.8
67.5°	2930.7	1130.9	44.3	31.9	24.9	19.1	15.6	13.9	10.7	9.4	9.0
70°	2196.4	772.1	36.7	27.4	20.8	16.3	13.2	12.5	10.0	9.0	8.3
72.5°	1288.5	416.7	30.8	23.9	17.7	13.5	10.7	11.4	10.0	8.3	7.6
75°	514.7	138.6	24.6	19.1	14.2	9.7	9.0	9.4	9.0	7.6	6.2
77.5°	117.4	43.6	19.1	14.9	11.1	6.2	7.3	8.0	8.0	6.2	4.5
80°	36.7	17.3	11.1	9.4	8.0	3.5	5.2	5.5	3.8	1.7	0.0
82.5°	11.8	4.8	3.8	3.8	3.5	0.7	1.0	0.7	0.0	0.0	0.0
85°	4.5	3.1	2.4	2.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.4	1.0	1.4	0.7	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)