

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637068

Luminaire Tested: GWS-SA4C-722-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10497.2 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

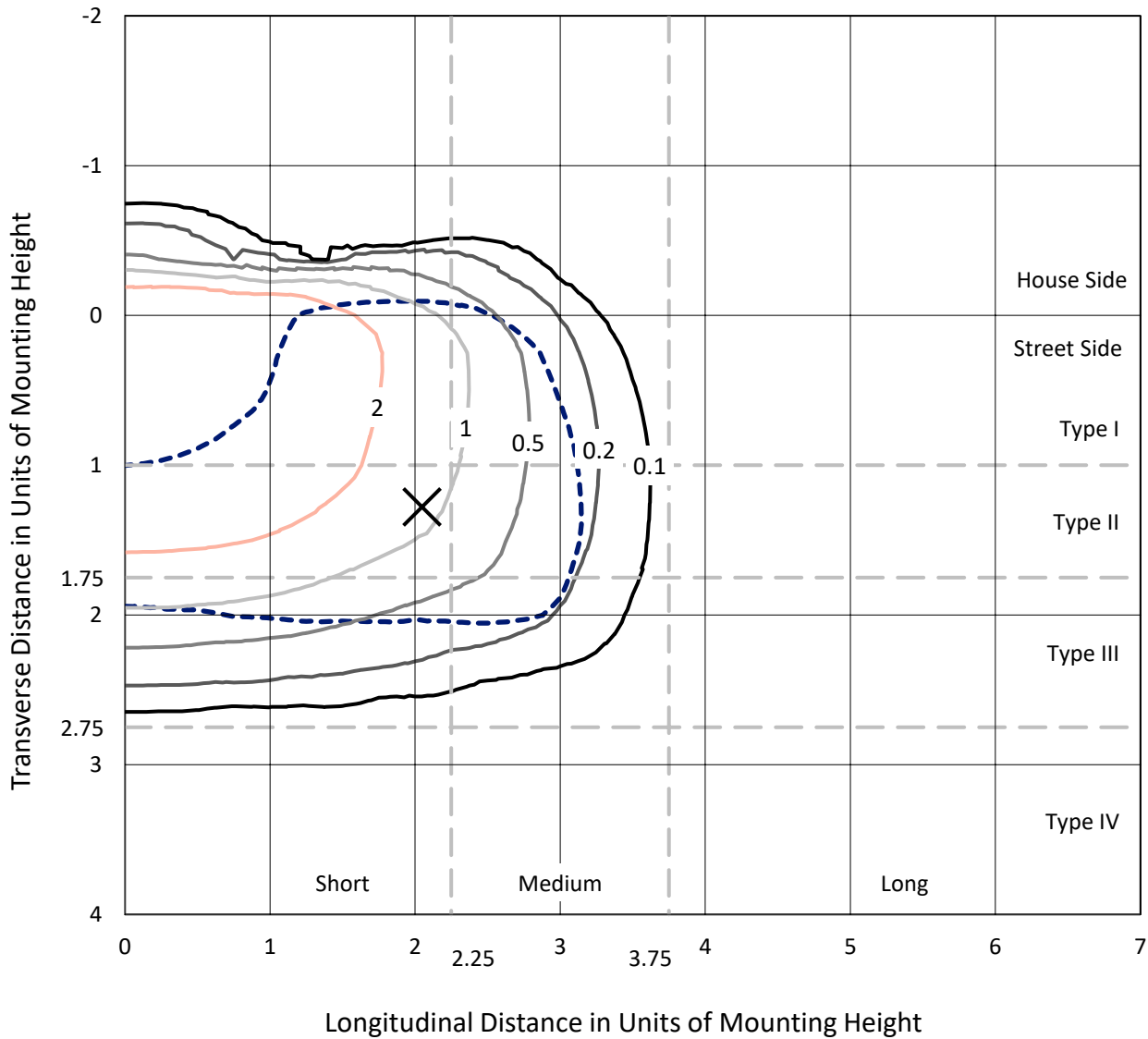
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

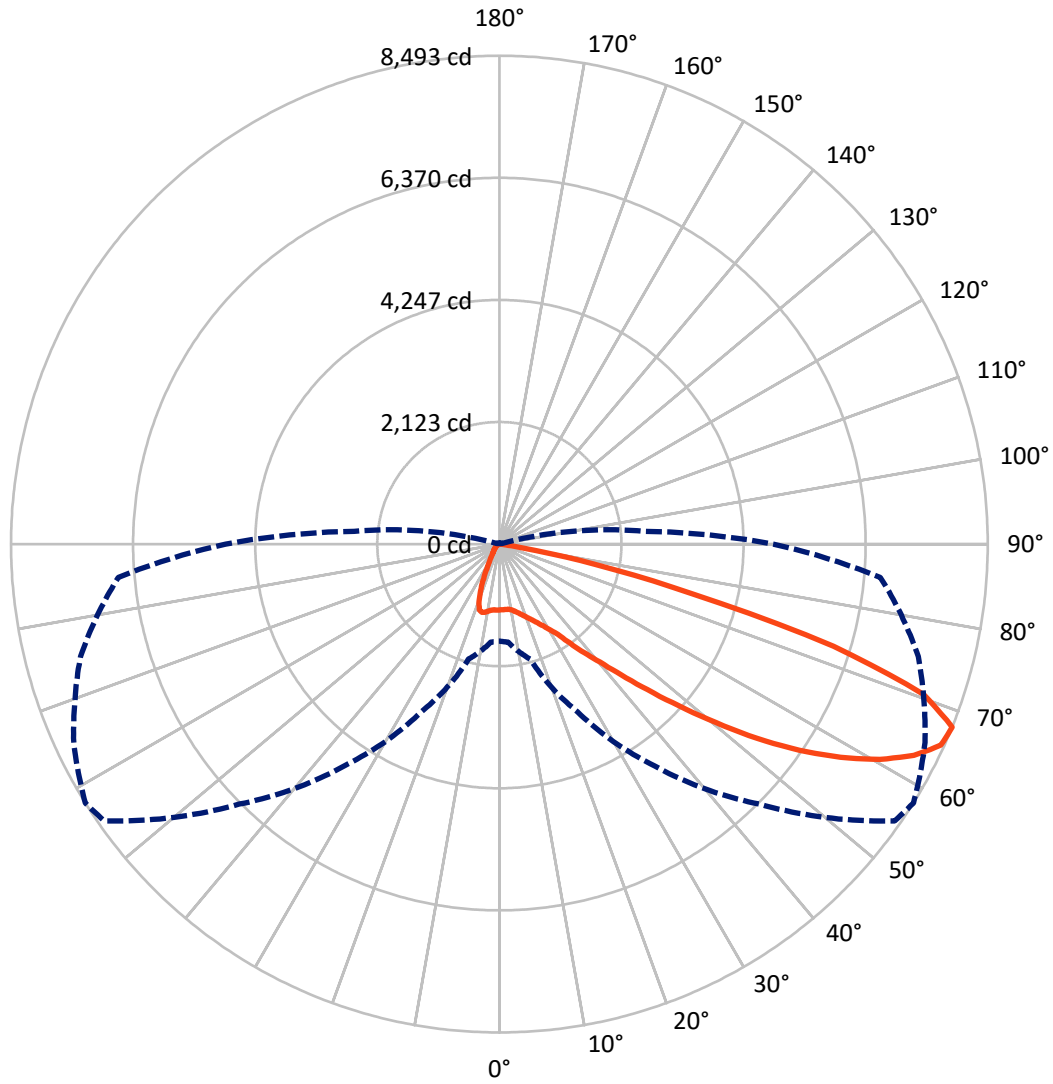
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.2	0.0	1145.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	9352.0	0.0	9352.0
	% Fixture	89.1	0.0	89.1
Total	Lumens	10497.2	0.0	10497.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.0
10°-20°	301.7	2.9
20°-30°	526.6	5.0
30°-40°	940.5	9.0
40°-50°	1719.0	16.4
50°-60°	2858.9	27.2
60°-70°	3105.3	29.6
70°-80°	911.7	8.7
80°-90°	26.0	0.2
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°	10497.2	100.0
0°-180°	10497.2	100.0

Coefficient of Utilization



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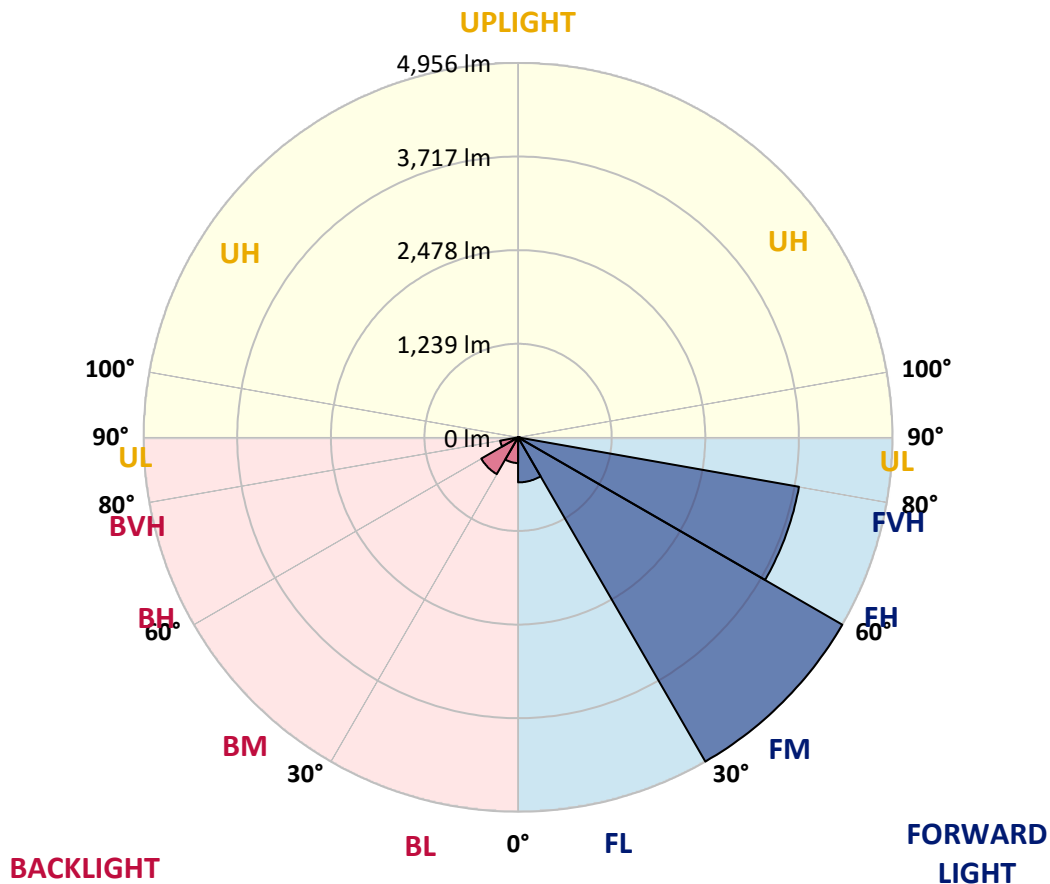
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.1	5.7			
FM (30°-60°)	4955.9	47.2			
FH (60°-80°)	3775.3	36.0			G2/5000
FVH (80°-90°)	24.7	0.2			G1/100
BL (0°-30°)	339.7	3.2	B1/500		
BM (30°-60°)	562.5	5.4	B1/1000		
BH (60°-80°)	241.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9
2.5°	1122.4	1120.3	1120.3	1128.5	1129.5	1133.6	1142.9	1143.9	1149.0	1147.0	1139.8
5°	1063.9	1065.0	1071.1	1085.5	1097.8	1113.1	1135.7	1140.8	1152.1	1158.2	1154.1
7.5°	1009.6	1010.6	1019.9	1042.4	1066.0	1096.7	1133.6	1143.9	1166.4	1182.8	1183.9
10°	989.1	988.1	997.3	1022.9	1053.7	1096.7	1150.0	1163.4	1197.2	1225.9	1231.0
12.5°	995.3	994.2	1003.5	1027.0	1060.9	1115.2	1178.7	1197.2	1240.2	1284.3	1293.5
15°	1019.9	1018.8	1025.0	1044.5	1081.4	1137.7	1215.6	1243.3	1297.6	1350.9	1365.3
17.5°	1093.7	1088.5	1082.4	1084.4	1106.0	1164.4	1262.8	1296.6	1364.3	1427.8	1440.1
20°	1224.9	1211.5	1195.1	1173.6	1163.4	1203.3	1317.1	1356.1	1438.1	1510.8	1512.9
22.5°	1422.7	1417.6	1379.6	1317.1	1273.0	1274.1	1380.7	1425.8	1526.2	1606.1	1594.9
25°	1698.4	1695.3	1636.9	1534.4	1419.6	1380.7	1461.6	1507.8	1630.7	1715.8	1679.9
27.5°	2040.7	2019.2	1950.5	1812.2	1641.0	1519.0	1564.1	1605.1	1741.4	1821.4	1753.7
30°	2339.0	2340.0	2275.5	2130.9	1938.2	1727.1	1689.2	1725.0	1842.9	1927.0	1845.0
32.5°	2626.0	2635.2	2564.5	2434.3	2223.2	1998.7	1868.5	1874.7	1973.1	2064.3	1964.9
35°	2892.5	2899.7	2850.5	2739.8	2543.0	2282.6	2118.6	2115.6	2168.9	2262.1	2132.0
37.5°	3190.8	3197.9	3149.8	3050.3	2865.9	2607.6	2402.6	2398.5	2420.0	2495.8	2347.2
40°	3508.5	3521.8	3468.5	3384.5	3208.2	2989.9	2732.6	2695.7	2674.2	2763.4	2626.0
42.5°	3830.4	3850.9	3832.4	3748.4	3597.7	3417.3	3161.0	3103.6	3057.5	3169.2	3023.7
45°	4230.1	4254.7	4246.5	4181.9	4065.1	3918.5	3676.6	3610.0	3588.5	3692.0	3518.8
47.5°	4614.5	4641.1	4670.8	4656.5	4573.5	4505.8	4237.3	4199.4	4193.2	4303.9	4035.4
50°	4900.4	4925.0	5038.8	5120.8	5177.2	5162.8	4930.2	4873.8	4864.6	4935.3	4580.6
52.5°	5105.4	5129.0	5285.8	5542.1	5749.1	5861.9	5627.2	5614.9	5564.6	5540.0	5091.1
55°	5264.3	5297.1	5462.1	5849.6	6266.7	6516.8	6370.3	6326.2	6197.0	6055.6	5564.6
57.5°	5296.1	5309.4	5542.1	6064.8	6668.5	7073.4	7073.4	6996.5	6747.5	6551.7	6112.0
60°	5011.1	5052.1	5366.8	6047.4	6840.7	7437.3	7656.6	7603.3	7267.1	7026.3	6638.8
62.5°	4378.7	4424.9	4808.2	5630.2	6668.5	7512.1	8098.4	8090.2	7710.9	7418.8	7075.5
65°	3357.8	3391.7	3725.8	4709.8	5940.8	7224.1	8414.1	8436.6	8061.5	7678.1	7226.1
67.5°	1687.1	1710.7	2071.5	3217.4	4708.8	6394.9	8392.6	8493.0	8168.1	7540.8	6651.1
70°	589.4	612.9	783.1	1380.7	2865.9	4883.0	7666.9	7830.9	7541.8	6436.9	4906.6
72.5°	201.9	213.2	324.9	512.5	1115.2	2894.6	5830.1	6077.1	5559.5	4321.3	2819.7
75°	114.8	122.0	174.2	277.8	467.4	952.2	3307.6	3459.3	3241.0	2355.4	1160.3
77.5°	77.9	84.0	108.6	157.8	258.3	306.5	1348.9	1698.4	1481.1	768.7	296.2
80°	46.1	50.2	66.6	93.3	132.2	118.9	289.0	384.4	495.1	229.6	89.2
82.5°	21.5	24.6	43.0	61.5	66.6	50.2	85.1	103.5	139.4	112.7	36.9
85°	0.0	0.0	14.3	25.6	24.6	14.3	23.6	25.6	37.9	56.4	14.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1	6.1	11.3	6.1
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°	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9	1143.9
2.5°	1148.0	1140.8	1149.0	1144.9	1149.0	1148.0	1139.8	1134.7	1134.7	1125.4	1122.4
5°	1162.3	1155.2	1157.2	1148.0	1145.9	1140.8	1130.6	1126.5	1126.5	1117.2	1114.2
7.5°	1194.1	1182.8	1180.8	1162.3	1154.1	1139.8	1121.3	1114.2	1113.1	1103.9	1100.8
10°	1244.3	1231.0	1221.8	1198.2	1174.6	1145.9	1107.0	1074.2	1055.7	1031.1	1029.1
12.5°	1305.8	1289.4	1275.1	1239.2	1200.3	1135.7	1020.9	901.0	827.2	768.7	772.8
15°	1374.5	1359.1	1336.6	1282.3	1202.3	1034.2	794.4	609.9	519.7	471.5	469.4
17.5°	1449.3	1426.8	1389.9	1316.1	1137.7	790.3	516.6	364.9	317.7	301.3	297.2
20°	1519.0	1491.4	1445.2	1323.3	951.2	535.0	322.9	282.9	274.7	269.6	269.6
22.5°	1592.8	1558.0	1489.3	1267.9	707.2	342.3	274.7	265.5	259.3	252.1	251.1
25°	1667.6	1622.5	1529.3	1123.4	463.3	269.6	257.3	247.0	235.7	224.5	221.4
27.5°	1731.2	1672.8	1560.0	908.1	297.2	242.9	234.7	217.3	201.9	189.6	187.6
30°	1807.0	1732.2	1573.3	664.2	233.7	214.2	201.9	183.5	165.0	152.7	148.6
32.5°	1908.5	1826.5	1552.8	432.5	207.0	188.6	169.1	147.6	129.1	115.8	113.8
35°	2066.4	1969.0	1458.6	275.7	187.6	163.0	139.4	116.8	101.5	91.2	89.2
37.5°	2259.1	2168.9	1303.8	207.0	168.1	141.4	113.8	92.2	81.0	73.8	71.7
40°	2545.0	2419.0	1112.1	181.4	148.6	119.9	93.3	75.8	67.6	61.5	59.4
42.5°	2916.1	2714.2	891.7	165.0	130.2	100.4	75.8	62.5	55.3	51.2	50.2
45°	3349.6	3002.2	659.1	148.6	112.7	83.0	62.5	51.2	46.1	43.0	42.0
47.5°	3793.5	3254.3	455.1	131.2	96.3	68.7	52.3	44.1	40.0	35.9	34.8
50°	4267.0	3467.5	310.6	113.8	82.0	56.4	45.1	40.0	34.8	31.8	30.7
52.5°	4614.5	3546.4	216.3	98.4	69.7	48.2	40.0	35.9	31.8	27.7	26.6
55°	4935.3	3544.4	164.0	83.0	59.4	42.0	35.9	31.8	27.7	24.6	23.6
57.5°	5255.1	3516.7	129.1	70.7	51.2	37.9	31.8	27.7	25.6	21.5	20.5
60°	5462.1	3412.2	100.4	59.4	44.1	32.8	27.7	24.6	21.5	18.4	17.4
62.5°	5571.8	3266.6	76.9	47.1	35.9	28.7	24.6	21.5	18.4	15.4	14.3
65°	5423.2	3008.3	60.5	36.9	27.7	24.6	20.5	17.4	14.3	11.3	10.2
67.5°	4764.1	2536.8	47.1	29.7	21.5	18.4	17.4	14.3	10.2	8.2	7.2
70°	3367.1	1737.3	36.9	22.5	16.4	14.3	13.3	11.3	8.2	6.1	5.1
72.5°	1848.0	876.4	26.6	16.4	12.3	11.3	10.2	9.2	7.2	5.1	5.1
75°	711.3	240.9	19.5	11.3	8.2	8.2	7.2	7.2	6.1	4.1	4.1
77.5°	185.5	71.7	12.3	7.2	5.1	5.1	5.1	4.1	4.1	3.1	3.1
80°	59.4	23.6	7.2	5.1	4.1	3.1	3.1	2.0	3.1	2.0	2.0
82.5°	19.5	8.2	4.1	4.1	3.1	2.0	2.0	1.0	1.0	0.0	0.0
85°	7.2	4.1	3.1	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	2.0	2.0	2.0	1.0	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)