

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: P636738

Luminaire Tested: GWS-SA4B-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636738
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-SA4B-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10480.6 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

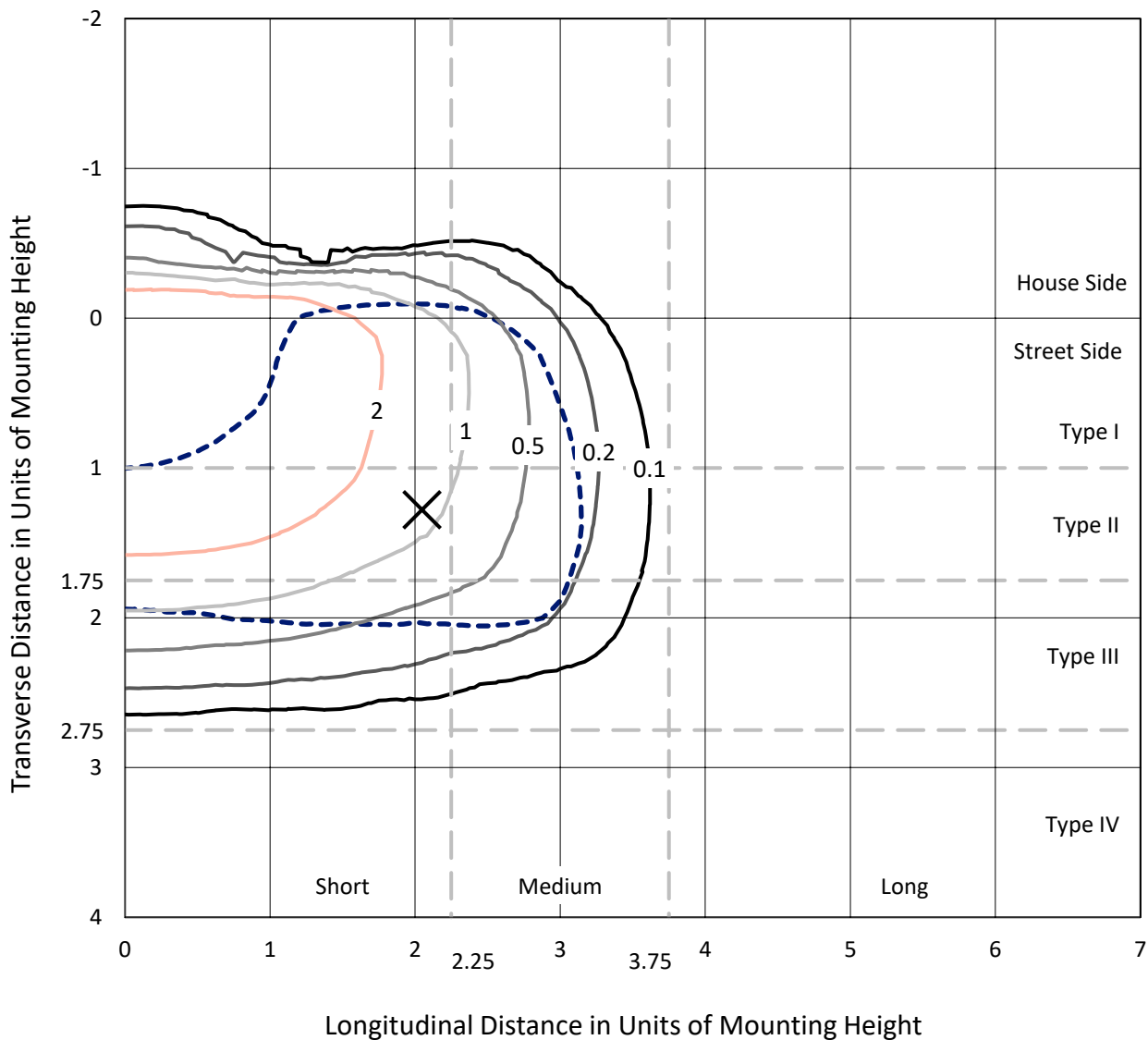
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

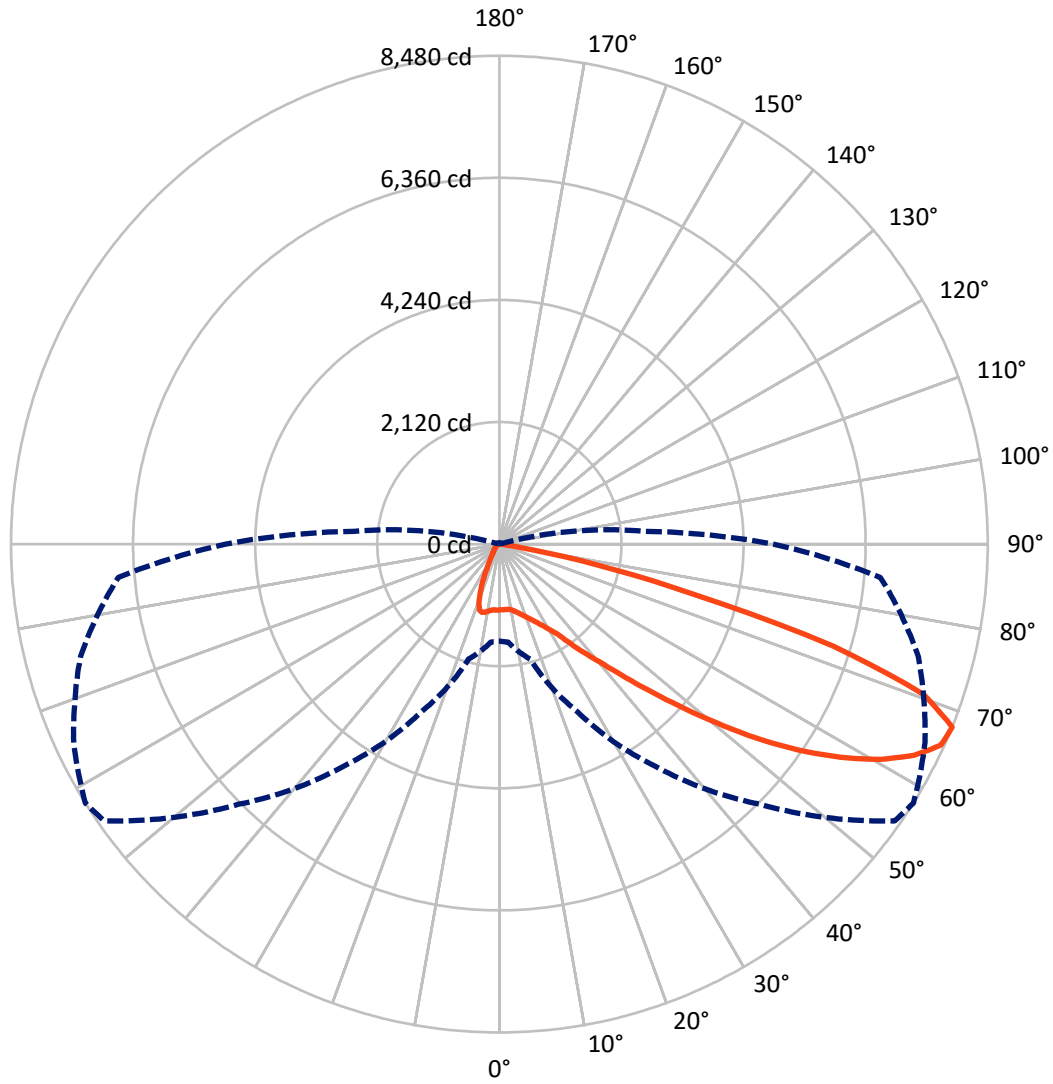
✕ Max cd
 - - - 1/2 Max cd



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	1143.4	0.0	1143.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	9337.2	0.0	9337.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	10480.6	0.0	10480.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.0
10°-20°	301.2	2.9
20°-30°	525.8	5.0
30°-40°	939.0	9.0
40°-50°	1716.3	16.4
50°-60°	2854.4	27.2
60°-70°	3100.4	29.6
70°-80°	910.3	8.7
80°-90°	25.9	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°	10480.6	100.0
0°-180°	10480.6	100.0

Coefficient of Utilization



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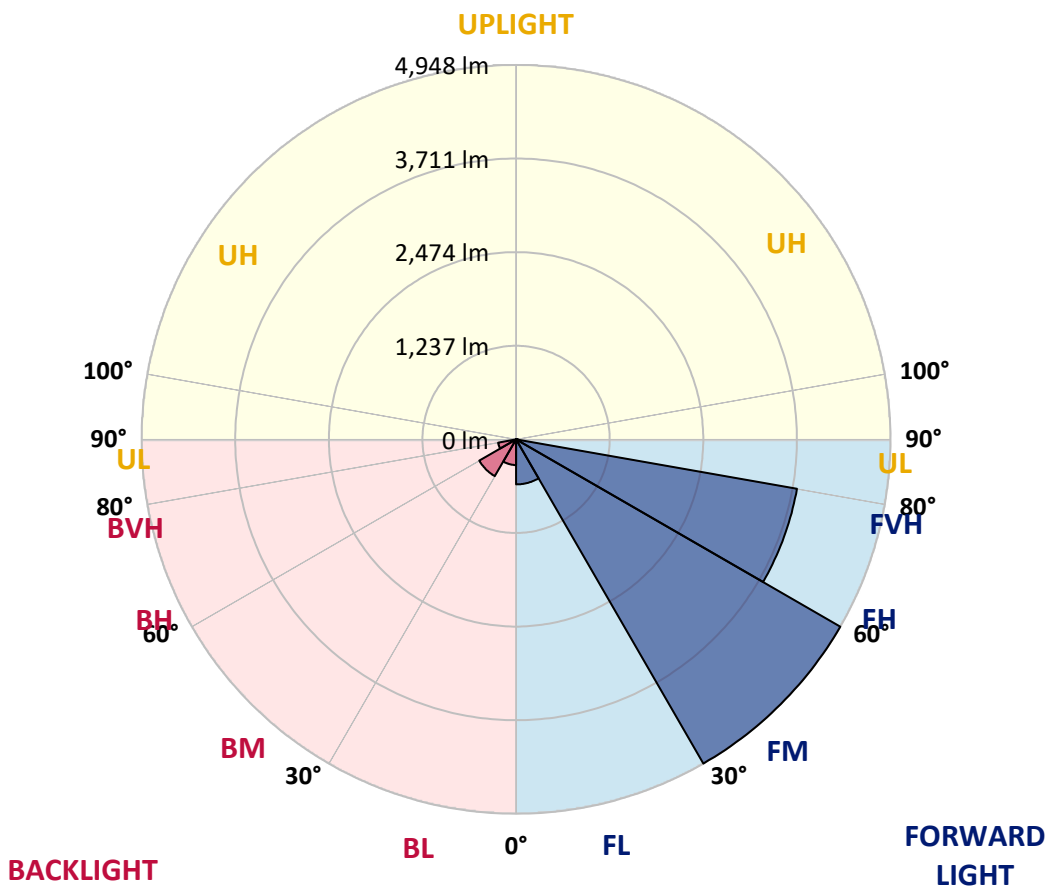
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.1	5.7			
FM (30°-60°)	4948.1	47.2			
FH (60°-80°)	3769.3	36.0			G2/5000
FVH (80°-90°)	24.6	0.2			G1/100
BL (0°-30°)	339.2	3.2	B1/500		
BM (30°-60°)	561.6	5.4	B1/1000		
BH (60°-80°)	241.4	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°	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1
2.5°	1120.6	1118.5	1118.5	1126.7	1127.7	1131.8	1141.0	1142.1	1147.2	1145.1	1138.0
5°	1062.3	1063.3	1069.4	1083.7	1096.0	1111.4	1133.9	1139.0	1150.3	1156.4	1152.3
7.5°	1008.0	1009.0	1018.2	1040.8	1064.3	1095.0	1131.8	1142.1	1164.6	1181.0	1182.0
10°	987.5	986.5	995.7	1021.3	1052.0	1095.0	1148.2	1161.5	1195.3	1223.9	1229.1
12.5°	993.7	992.7	1001.9	1025.4	1059.2	1113.4	1176.9	1195.3	1238.3	1282.3	1291.5
15°	1018.2	1017.2	1023.4	1042.8	1079.6	1135.9	1213.7	1241.3	1295.6	1348.8	1363.1
17.5°	1091.9	1086.8	1080.7	1082.7	1104.2	1162.5	1260.8	1294.6	1362.1	1425.5	1437.8
20°	1222.9	1209.6	1193.2	1171.7	1161.5	1201.4	1315.0	1353.9	1435.8	1508.4	1510.5
22.5°	1420.4	1415.3	1377.4	1315.0	1271.0	1272.0	1378.5	1423.5	1523.8	1603.6	1592.4
25°	1695.7	1692.6	1634.3	1532.0	1417.4	1378.5	1459.3	1505.4	1628.2	1713.1	1677.3
27.5°	2037.5	2016.0	1947.5	1809.3	1638.4	1516.6	1561.7	1602.6	1738.7	1818.5	1751.0
30°	2335.3	2336.3	2271.9	2127.6	1935.2	1724.4	1686.5	1722.3	1840.0	1923.9	1842.1
32.5°	2621.9	2631.1	2560.5	2430.5	2219.7	1995.6	1865.6	1871.7	1970.0	2061.1	1961.8
35°	2887.9	2895.1	2846.0	2735.4	2539.0	2279.0	2115.3	2112.2	2165.4	2258.6	2128.6
37.5°	3185.7	3192.9	3144.8	3045.5	2861.3	2603.4	2398.8	2394.7	2416.2	2491.9	2343.5
40°	3503.0	3516.3	3463.1	3379.1	3203.1	2985.1	2728.3	2691.4	2670.0	2759.0	2621.9
42.5°	3824.3	3844.8	3826.4	3742.4	3592.0	3411.9	3156.0	3098.7	3052.7	3164.2	3018.9
45°	4223.4	4248.0	4239.8	4175.3	4058.7	3912.3	3670.8	3604.3	3582.8	3686.2	3513.2
47.5°	4607.2	4633.8	4663.5	4649.1	4566.2	4498.7	4230.6	4192.7	4186.6	4297.1	4029.0
50°	4892.7	4917.3	5030.8	5112.7	5169.0	5154.7	4922.4	4866.1	4856.9	4927.5	4573.4
52.5°	5097.4	5120.9	5277.5	5533.3	5740.0	5852.6	5618.3	5606.0	5555.8	5531.3	5083.0
55°	5256.0	5288.7	5453.5	5840.3	6256.8	6506.5	6360.2	6316.2	6187.2	6046.0	5555.8
57.5°	5287.7	5301.0	5533.3	6055.2	6658.0	7062.2	7062.2	6985.5	6736.8	6541.3	6102.3
60°	5003.2	5044.2	5358.3	6037.8	6829.9	7425.5	7644.5	7591.3	7255.6	7015.1	6628.3
62.5°	4371.8	4417.9	4800.6	5621.3	6658.0	7500.2	8085.6	8077.4	7698.8	7407.1	7064.3
65°	3352.5	3386.3	3719.9	4702.3	5931.4	7212.7	8400.8	8423.3	8048.7	7666.0	7214.7
67.5°	1684.5	1708.0	2068.2	3212.3	4701.3	6384.8	8379.3	8479.6	8155.2	7528.9	6640.6
70°	588.4	612.0	781.8	1378.5	2861.3	4875.3	7654.7	7818.5	7529.9	6426.7	4898.8
72.5°	201.6	212.9	324.4	511.7	1113.4	2890.0	5820.9	6067.5	5550.7	4314.5	2815.3
75°	114.6	121.8	174.0	277.3	466.7	950.7	3302.4	3453.8	3235.9	2351.7	1158.4
77.5°	77.8	83.9	108.5	157.6	257.9	306.0	1346.7	1695.7	1478.8	767.5	295.8
80°	46.1	50.1	66.5	93.1	132.0	118.7	288.6	383.8	494.3	229.2	89.0
82.5°	21.5	24.6	43.0	61.4	66.5	50.1	84.9	103.4	139.2	112.6	36.8
85°	0.0	0.0	14.3	25.6	24.6	14.3	23.5	25.6	37.9	56.3	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°	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1
2.5°	1146.2	1139.0	1147.2	1143.1	1147.2	1146.2	1138.0	1132.9	1132.9	1123.7	1120.6
5°	1160.5	1153.3	1155.4	1146.2	1144.1	1139.0	1128.8	1124.7	1124.7	1115.5	1112.4
7.5°	1192.2	1181.0	1178.9	1160.5	1152.3	1138.0	1119.6	1112.4	1111.4	1102.2	1099.1
10°	1242.4	1229.1	1219.8	1196.3	1172.8	1144.1	1105.2	1072.5	1054.1	1029.5	1027.5
12.5°	1303.8	1287.4	1273.1	1237.2	1198.4	1133.9	1019.3	899.5	825.9	767.5	771.6
15°	1372.3	1357.0	1334.5	1280.2	1200.4	1032.6	793.1	608.9	518.8	470.7	468.7
17.5°	1447.0	1424.5	1387.7	1314.0	1135.9	789.0	515.8	364.3	317.2	300.9	296.8
20°	1516.6	1489.0	1442.9	1321.2	949.7	534.2	322.4	282.4	274.3	269.1	269.1
22.5°	1590.3	1555.5	1486.9	1265.9	706.1	341.8	274.3	265.1	258.9	251.7	250.7
25°	1665.0	1620.0	1526.9	1121.6	462.6	269.1	256.9	246.6	235.4	224.1	221.0
27.5°	1728.5	1670.1	1557.6	906.7	296.8	242.5	234.3	217.0	201.6	189.3	187.3
30°	1804.2	1729.5	1570.9	663.1	233.3	213.9	201.6	183.2	164.8	152.5	148.4
32.5°	1905.5	1823.6	1550.4	431.9	206.7	188.3	168.9	147.4	128.9	115.6	113.6
35°	2063.1	1965.9	1456.2	275.3	187.3	162.7	139.2	116.7	101.3	91.1	89.0
37.5°	2255.5	2165.4	1301.7	206.7	167.8	141.2	113.6	92.1	80.8	73.7	71.6
40°	2541.0	2415.1	1110.3	181.1	148.4	119.7	93.1	75.7	67.5	61.4	59.4
42.5°	2911.5	2709.9	890.3	164.8	130.0	100.3	75.7	62.4	55.3	51.2	50.1
45°	3344.3	2997.4	658.0	148.4	112.6	82.9	62.4	51.2	46.1	43.0	42.0
47.5°	3787.5	3249.2	454.4	131.0	96.2	68.6	52.2	44.0	39.9	35.8	34.8
50°	4260.3	3462.0	310.1	113.6	81.9	56.3	45.0	39.9	34.8	31.7	30.7
52.5°	4607.2	3540.8	215.9	98.2	69.6	48.1	39.9	35.8	31.7	27.6	26.6
55°	4927.5	3538.8	163.7	82.9	59.4	42.0	35.8	31.7	27.6	24.6	23.5
57.5°	5246.8	3511.2	128.9	70.6	51.2	37.9	31.7	27.6	25.6	21.5	20.5
60°	5453.5	3406.8	100.3	59.4	44.0	32.7	27.6	24.6	21.5	18.4	17.4
62.5°	5563.0	3261.5	76.8	47.1	35.8	28.7	24.6	21.5	18.4	15.4	14.3
65°	5414.6	3003.6	60.4	36.8	27.6	24.6	20.5	17.4	14.3	11.3	10.2
67.5°	4756.6	2532.8	47.1	29.7	21.5	18.4	17.4	14.3	10.2	8.2	7.2
70°	3361.7	1734.6	36.8	22.5	16.4	14.3	13.3	11.3	8.2	6.1	5.1
72.5°	1845.1	875.0	26.6	16.4	12.3	11.3	10.2	9.2	7.2	5.1	5.1
75°	710.2	240.5	19.4	11.3	8.2	8.2	7.2	7.2	6.1	4.1	4.1
77.5°	185.2	71.6	12.3	7.2	5.1	5.1	5.1	4.1	4.1	3.1	3.1
80°	59.4	23.5	7.2	5.1	4.1	3.1	3.1	2.0	3.1	2.0	2.0
82.5°	19.4	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)