

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: P631327

Luminaire Tested: GWS-SA1F-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6638.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

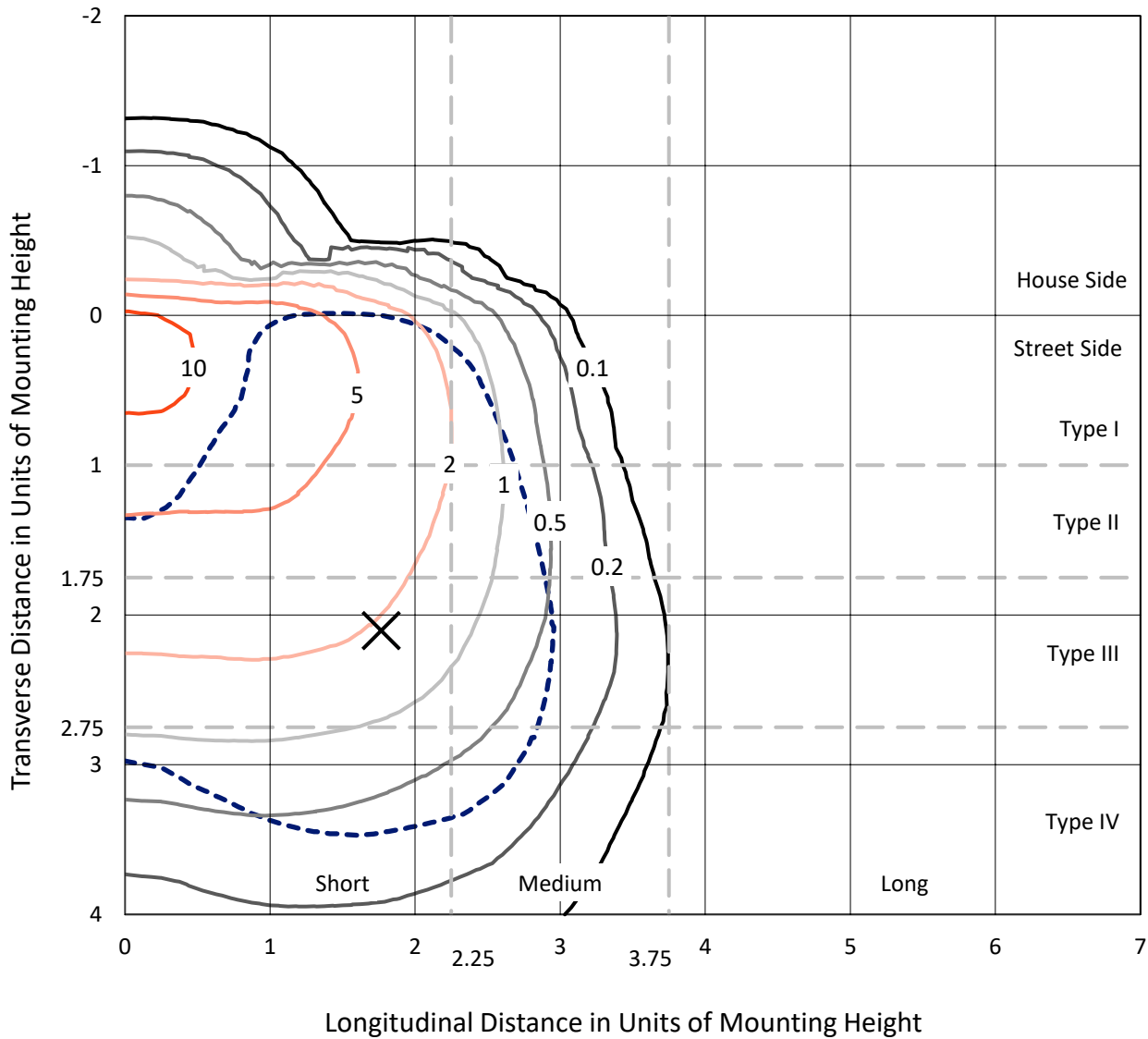
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

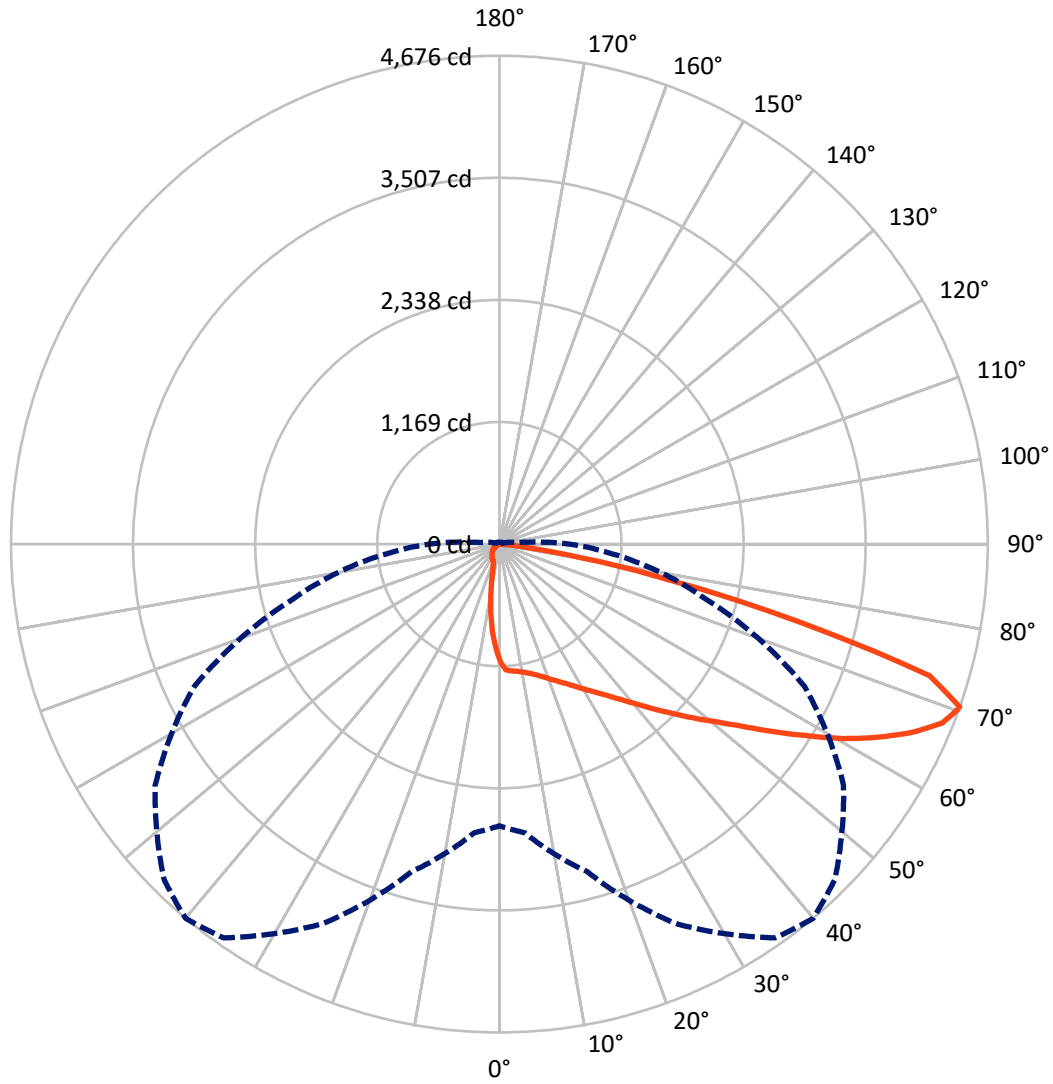
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	542.8	0.0	542.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	6095.3	0.0	6095.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	6638.1	0.0	6638.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.4
10°-20°	241.5	3.6
20°-30°	404.1	6.1
30°-40°	634.7	9.6
40°-50°	1004.0	15.1
50°-60°	1464.6	22.1
60°-70°	1815.5	27.4
70°-80°	918.6	13.8
80°-90°	60.0	0.9
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°	6638.1	100.0
0°-180°	6638.1	100.0

Coefficient of Utilization



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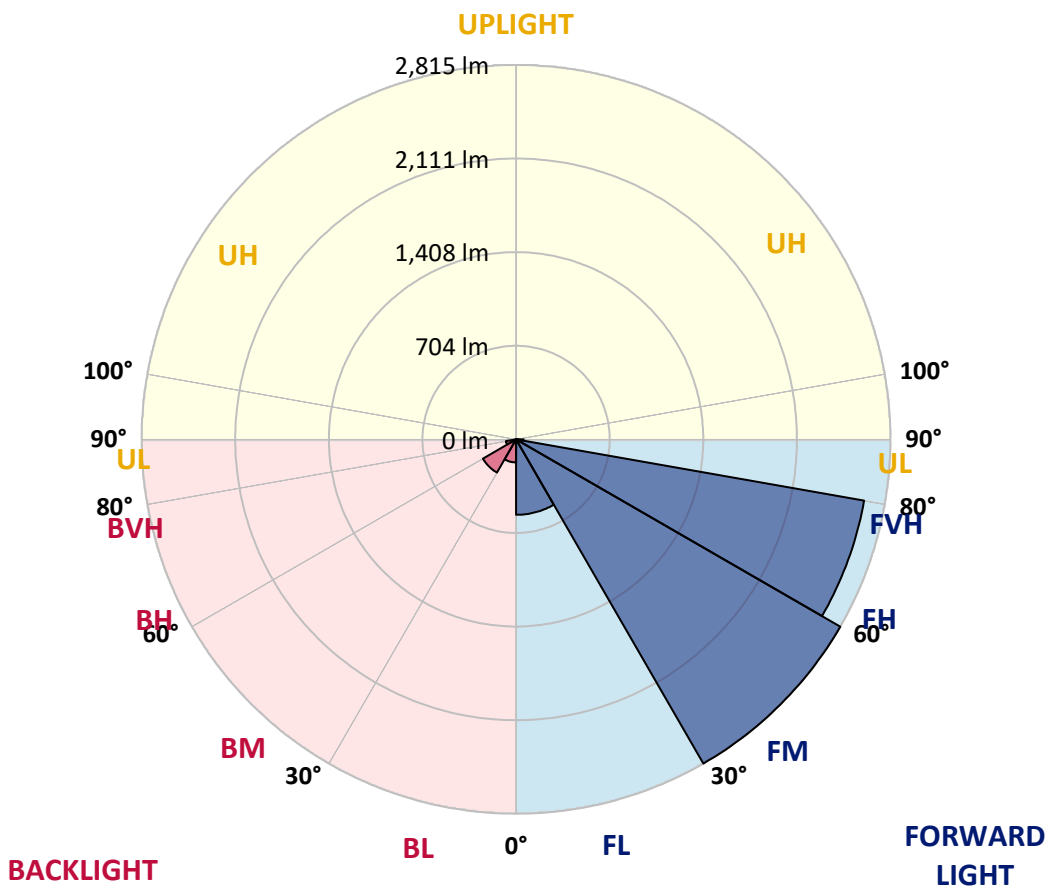
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.4	8.5			
FM (30°-60°)	2815.1	42.4			
FH (60°-80°)	2656.7	40.0			G2/5000
FVH (80°-90°)	56.0	0.8			G1/100
BL (0°-30°)	173.3	2.6	B1/500		
BM (30°-60°)	288.1	4.3	B1/1000		
BH (60°-80°)	77.4	1.2	B0/110		G0/110
BVH (80°-90°)	4.0	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1211.0	1215.2	1214.6	1216.4	1212.2	1205.5	1204.3	1195.3	1179.0	1158.4	1135.5
5°	1235.7	1240.6	1236.9	1235.1	1227.3	1220.0	1218.2	1208.5	1189.8	1162.0	1122.2
7.5°	1256.9	1258.1	1255.7	1251.4	1240.0	1230.3	1223.6	1210.4	1188.0	1160.2	1114.3
10°	1260.5	1259.9	1261.1	1261.7	1254.4	1246.0	1240.6	1222.4	1194.1	1164.5	1114.9
12.5°	1256.3	1256.3	1264.1	1273.2	1273.2	1268.9	1263.5	1247.2	1214.0	1179.0	1127.0
15°	1261.7	1263.5	1278.6	1295.5	1301.0	1296.7	1294.3	1277.4	1243.0	1204.3	1148.8
17.5°	1281.0	1282.8	1307.0	1332.4	1339.0	1334.2	1329.3	1312.4	1275.6	1233.3	1173.5
20°	1309.4	1314.2	1345.0	1377.7	1383.7	1377.7	1368.0	1344.4	1307.6	1264.7	1197.1
22.5°	1361.4	1364.4	1397.6	1432.0	1435.0	1425.4	1410.9	1378.3	1339.6	1297.9	1223.6
25°	1430.2	1434.4	1467.6	1500.9	1493.0	1478.5	1458.6	1421.7	1377.7	1337.2	1257.5
27.5°	1512.3	1517.2	1549.8	1578.8	1558.2	1541.3	1519.0	1473.1	1428.4	1391.5	1301.0
30°	1601.1	1605.4	1634.3	1660.3	1633.1	1613.2	1586.6	1539.5	1494.2	1466.4	1362.6
32.5°	1686.9	1686.3	1714.1	1735.2	1707.4	1691.7	1667.6	1619.9	1583.6	1571.5	1454.4
35°	1766.6	1766.6	1789.6	1810.7	1790.8	1782.3	1760.0	1721.9	1701.4	1715.9	1577.0
37.5°	1846.9	1842.7	1864.5	1888.0	1886.2	1886.8	1874.1	1856.0	1857.2	1908.5	1745.5
40°	1913.4	1911.6	1936.9	1967.7	1991.9	2011.2	2003.4	2010.0	2048.1	2144.1	1961.1
42.5°	1966.5	1970.8	2003.4	2052.3	2113.3	2152.6	2158.0	2185.2	2283.0	2431.6	2204.5
45°	2027.5	2028.1	2073.4	2148.3	2245.6	2307.8	2329.5	2399.6	2538.5	2729.9	2471.4
47.5°	2102.4	2095.2	2145.9	2251.0	2391.7	2483.5	2522.2	2609.8	2824.8	3021.1	2688.9
50°	2185.2	2171.9	2229.3	2372.4	2555.4	2670.2	2748.7	2876.7	3108.6	3260.2	2850.7
52.5°	2281.2	2268.5	2333.7	2511.9	2751.7	2891.2	2992.1	3121.3	3352.0	3442.6	2947.4
55°	2403.2	2390.5	2459.4	2679.2	2983.6	3164.8	3270.5	3379.2	3578.5	3577.3	3017.4
57.5°	2538.5	2521.0	2616.4	2890.6	3272.9	3461.4	3568.9	3622.0	3750.7	3681.8	3064.5
60°	2693.7	2678.0	2810.3	3142.5	3606.9	3781.5	3849.1	3827.4	3892.0	3743.4	3048.2
62.5°	2833.8	2826.6	2990.9	3409.4	3925.2	4072.6	4091.3	3996.5	3995.9	3744.6	2938.3
65°	2979.4	2993.3	3237.3	3716.8	4245.3	4344.4	4312.4	4164.4	4037.5	3596.6	2613.4
67.5°	3033.7	3074.2	3399.8	3994.7	4497.8	4575.1	4518.9	4248.3	3864.2	3099.0	1990.1
70°	2697.9	2774.0	3246.3	4010.4	4602.3	4675.9	4541.3	4022.4	3221.6	2052.9	1090.2
72.5°	2051.7	2140.5	2705.2	3283.8	4139.0	4306.9	4076.8	3277.1	2076.5	899.3	366.0
75°	1148.1	1244.2	2014.8	2472.7	2778.9	2932.3	2847.7	2102.4	919.8	234.9	109.3
77.5°	388.4	420.4	937.4	1529.9	1834.3	1696.6	1436.2	1044.3	338.2	89.4	58.0
80°	230.1	242.2	349.1	761.6	965.1	800.3	631.8	385.9	172.1	47.7	40.5
82.5°	68.9	81.5	192.7	282.7	378.1	235.5	199.3	220.4	89.4	26.0	33.8
85°	0.0	0.0	41.1	87.6	99.1	38.7	38.7	125.0	16.3	10.9	24.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.0	1.8	2.4	5.4
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°	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1119.2	1098.0	1073.3	1049.7	1027.4	998.4	984.5	967.6	953.1	945.2	949.4
5°	1096.8	1063.6	1012.9	961.5	909.6	860.7	816.6	787.0	760.4	746.5	749.5
7.5°	1077.5	1032.8	953.7	869.7	786.4	702.4	634.2	581.0	540.0	523.0	520.0
10°	1069.0	1012.9	901.1	780.3	652.3	539.3	442.7	384.1	342.5	321.9	325.5
12.5°	1073.3	1002.6	856.4	692.8	526.7	395.0	302.6	247.6	218.0	206.0	202.9
15°	1085.3	1000.2	816.6	603.4	406.5	276.0	209.0	186.6	180.6	179.4	179.4
17.5°	1099.2	1000.8	775.5	512.8	308.6	204.7	178.8	174.5	172.7	171.5	172.1
20°	1113.1	1000.8	728.4	421.0	231.9	177.0	170.3	167.3	165.5	164.9	164.9
22.5°	1130.0	1000.8	675.8	335.8	186.0	167.9	162.5	160.7	158.8	158.2	157.6
25°	1150.6	1001.4	617.9	262.7	169.1	160.1	155.8	154.0	152.2	151.0	151.0
27.5°	1180.2	1006.2	553.8	204.7	159.4	152.8	149.2	147.4	145.6	143.7	143.7
30°	1223.0	1018.3	482.0	169.1	150.4	145.0	141.3	140.1	138.3	136.5	135.9
32.5°	1287.1	1039.4	407.7	151.6	141.9	136.5	132.3	131.1	129.2	127.4	126.8
35°	1376.5	1078.1	335.2	140.7	131.1	125.6	123.2	122.6	120.2	118.4	118.4
37.5°	1507.5	1140.9	265.7	129.9	122.0	117.8	114.8	113.5	111.1	109.3	108.7
40°	1667.6	1222.4	206.6	121.4	113.5	109.3	106.3	104.5	101.5	99.1	97.8
42.5°	1871.7	1322.1	163.1	112.3	105.7	101.5	99.1	95.4	91.2	87.6	87.0
45°	2084.3	1424.8	134.7	103.9	98.4	94.8	91.8	87.0	80.9	76.7	75.5
47.5°	2247.4	1488.8	117.8	94.8	90.6	87.6	84.0	77.9	70.7	65.8	64.6
50°	2363.9	1498.5	105.1	86.4	84.0	80.9	75.5	68.2	60.4	55.6	54.4
52.5°	2421.3	1455.0	94.8	78.5	76.7	73.7	67.0	59.2	50.7	45.9	44.7
55°	2447.3	1372.8	85.2	71.9	69.5	65.8	58.6	50.1	41.7	37.4	36.2
57.5°	2437.0	1251.4	76.7	65.2	62.2	58.0	50.1	41.1	34.4	30.2	29.6
60°	2360.9	1081.1	68.2	58.6	55.0	50.1	42.3	33.8	27.8	24.8	24.2
62.5°	2196.6	869.7	59.8	50.7	48.3	43.5	36.2	27.8	23.0	21.1	20.5
65°	1860.2	614.8	51.3	42.9	41.7	36.8	30.2	23.0	19.9	18.7	18.1
67.5°	1337.2	373.9	43.5	36.8	35.6	31.4	25.4	19.9	18.1	17.5	17.5
70°	672.2	177.0	34.4	30.2	30.2	26.0	21.7	18.1	17.5	16.9	16.9
72.5°	228.3	75.5	26.0	23.6	24.8	22.3	18.7	16.9	16.9	16.9	16.9
75°	77.9	39.9	18.1	16.9	18.1	18.1	16.3	16.3	16.9	16.9	16.9
77.5°	50.7	26.6	12.7	11.5	13.9	13.9	13.9	15.1	16.3	16.3	16.3
80°	41.7	14.5	8.5	7.9	10.3	10.3	11.5	13.9	15.1	15.1	15.1
82.5°	35.6	9.1	4.8	5.4	7.2	7.9	9.7	11.5	13.3	13.9	13.9
85°	24.2	4.8	3.6	4.2	4.8	6.0	7.9	9.7	10.9	12.1	12.1
87.5°	6.6	1.8	2.4	3.0	3.0	4.2	6.0	7.2	8.5	9.1	9.1
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)