

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: P632317

Luminaire Tested: GWS-SA2C-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632317
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-SA2C-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7292.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

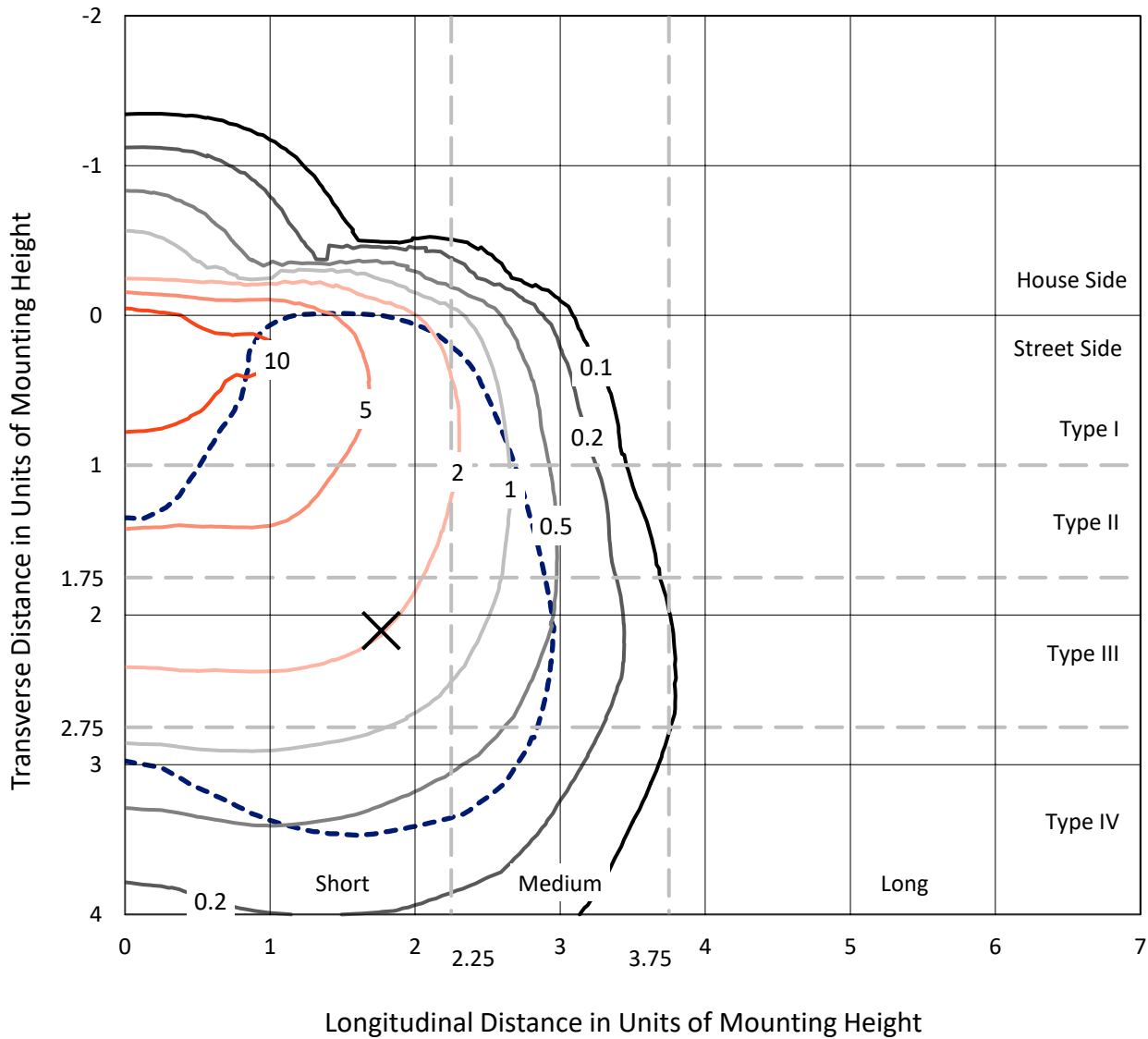
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

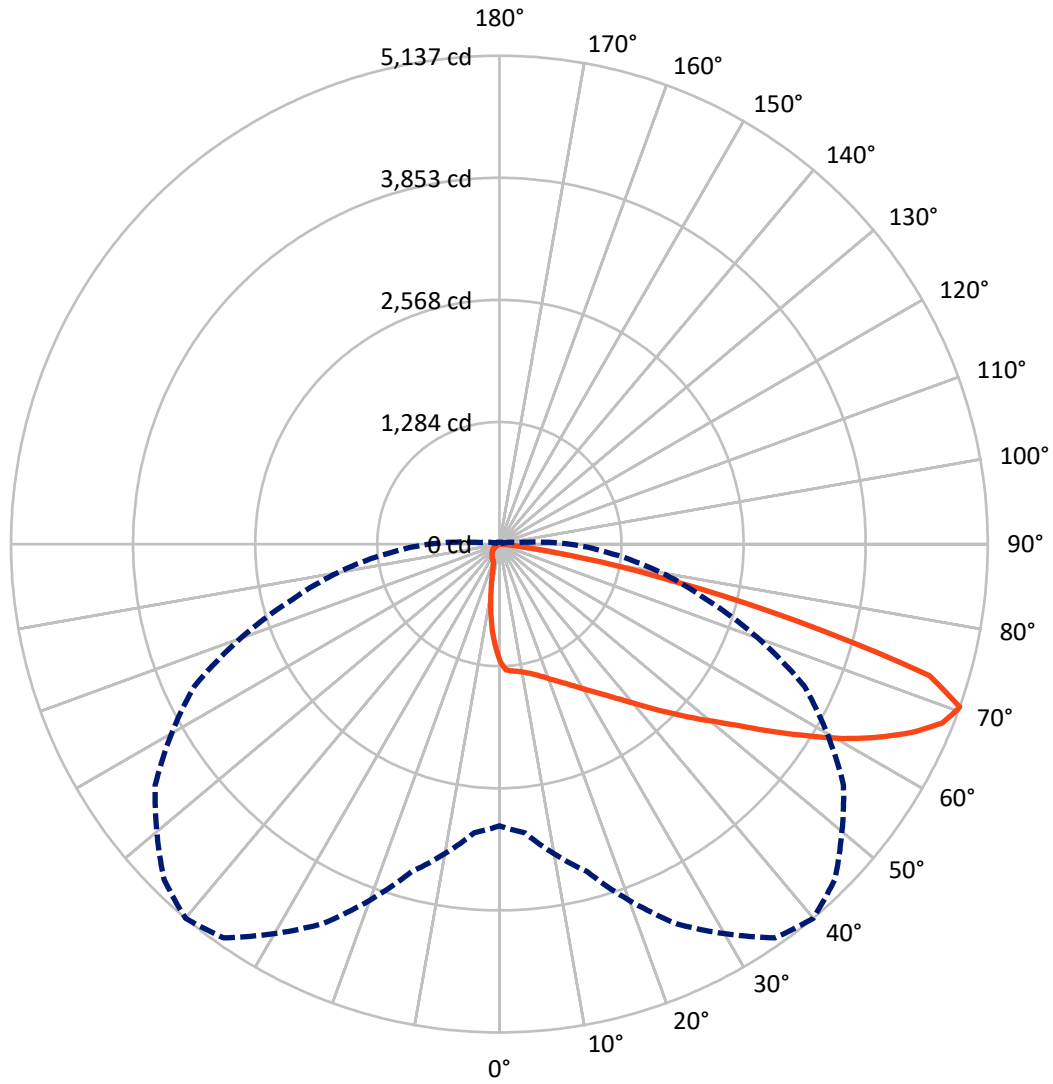
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 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	596.3	0.0	596.3
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	6696.1	0.0	6696.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	7292.4	0.0	7292.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	1.4
10°-20°	265.3	3.6
20°-30°	444.0	6.1
30°-40°	697.3	9.6
40°-50°	1102.9	15.1
50°-60°	1608.9	22.1
60°-70°	1994.5	27.4
70°-80°	1009.1	13.8
80°-90°	65.9	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°	7292.4	100.0
0°-180°	7292.4	100.0

Coefficient of Utilization



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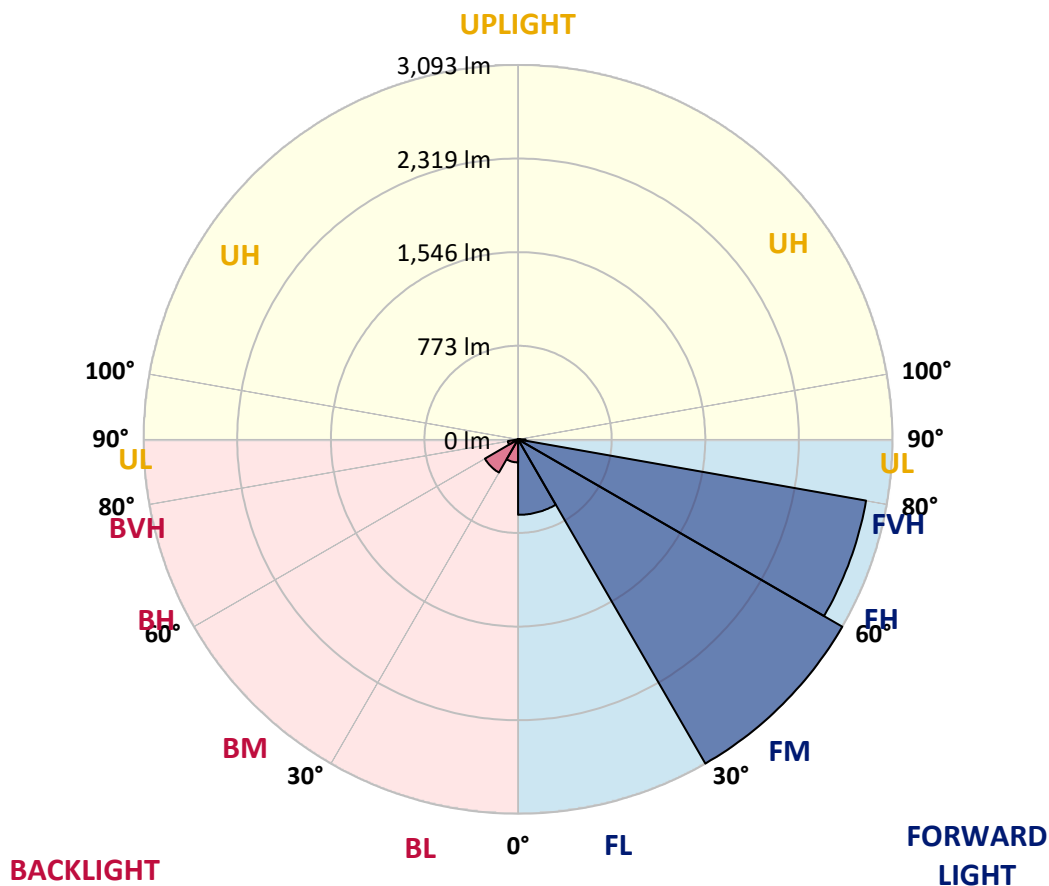
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.4	8.5			
FM (30°-60°)	3092.6	42.4			
FH (60°-80°)	2918.6	40.0			G2/5000
FVH (80°-90°)	61.5	0.8			G1/100
BL (0°-30°)	190.4	2.6	B1/500		
BM (30°-60°)	316.5	4.3	B1/1000		
BH (60°-80°)	85.0	1.2	B0/110		G0/110
BVH (80°-90°)	4.3	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°	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4
2.5°	1330.3	1335.0	1334.3	1336.3	1331.7	1324.4	1323.0	1313.1	1295.2	1272.6	1247.4
5°	1357.5	1362.8	1358.9	1356.9	1348.2	1340.3	1338.3	1327.7	1307.1	1276.6	1232.8
7.5°	1380.7	1382.1	1379.4	1374.8	1362.2	1351.6	1344.3	1329.7	1305.1	1274.6	1224.2
10°	1384.7	1384.1	1385.4	1386.1	1378.1	1368.8	1362.8	1342.9	1311.7	1279.2	1224.8
12.5°	1380.1	1380.1	1388.7	1398.7	1398.7	1394.0	1388.0	1370.1	1333.6	1295.2	1238.1
15°	1386.1	1388.0	1404.6	1423.2	1429.2	1424.5	1421.9	1403.3	1365.5	1323.0	1262.0
17.5°	1407.3	1409.3	1435.8	1463.7	1471.0	1465.7	1460.4	1441.8	1401.3	1354.9	1289.2
20°	1438.5	1443.8	1477.6	1513.5	1520.1	1513.5	1502.8	1477.0	1436.5	1389.4	1315.1
22.5°	1495.5	1498.9	1535.3	1573.2	1576.5	1565.9	1549.9	1514.1	1471.6	1425.9	1344.3
25°	1571.2	1575.8	1612.3	1648.8	1640.2	1624.3	1602.4	1561.9	1513.5	1469.0	1381.4
27.5°	1661.4	1666.7	1702.5	1734.4	1711.8	1693.3	1668.7	1618.3	1569.2	1528.7	1429.2
30°	1758.9	1763.6	1795.4	1824.0	1794.1	1772.2	1743.0	1691.3	1641.5	1611.0	1496.9
32.5°	1853.2	1852.5	1883.0	1906.2	1875.7	1858.5	1831.9	1779.5	1739.7	1726.4	1597.7
35°	1940.7	1940.7	1966.0	1989.2	1967.3	1958.0	1933.4	1891.6	1869.1	1885.0	1732.4
37.5°	2029.0	2024.3	2048.2	2074.1	2072.1	2072.8	2058.8	2038.9	2040.3	2096.7	1917.5
40°	2102.0	2100.0	2127.9	2161.7	2188.2	2209.5	2200.8	2208.1	2249.9	2355.4	2154.4
42.5°	2160.4	2165.0	2200.8	2254.6	2321.6	2364.7	2370.7	2400.6	2508.0	2671.3	2421.8
45°	2227.4	2228.0	2277.8	2360.1	2466.9	2535.2	2559.1	2636.1	2788.7	2999.0	2715.1
47.5°	2309.7	2301.7	2357.4	2472.9	2627.5	2728.3	2770.8	2867.0	3103.2	3318.8	2953.9
50°	2400.6	2386.0	2449.0	2606.2	2807.3	2933.3	3019.6	3160.3	3415.0	3581.6	3131.7
52.5°	2506.1	2492.1	2563.8	2759.5	3022.9	3176.2	3287.0	3429.0	3682.4	3782.0	3237.9
55°	2640.1	2626.1	2701.8	2943.3	3277.7	3476.8	3592.9	3712.3	3931.3	3929.9	3314.9
57.5°	2788.7	2769.5	2874.3	3175.5	3595.5	3802.5	3920.6	3979.0	4120.4	4044.7	3366.6
60°	2959.2	2942.0	3087.3	3452.2	3962.4	4154.2	4228.5	4204.6	4275.6	4112.4	3348.7
62.5°	3113.2	3105.2	3285.7	3745.5	4312.1	4474.0	4494.6	4390.4	4389.7	4113.7	3227.9
65°	3273.1	3288.3	3556.4	4083.2	4663.8	4772.6	4737.4	4574.9	4435.5	3951.2	2871.0
67.5°	3332.8	3377.2	3734.9	4388.4	4941.1	5026.0	4964.3	4667.1	4245.1	3404.4	2186.2
70°	2963.9	3047.5	3566.3	4405.7	5055.9	5136.8	4988.9	4418.9	3539.1	2255.2	1197.6
72.5°	2253.9	2351.5	2971.8	3607.5	4547.0	4731.4	4478.6	3600.2	2281.1	988.0	402.1
75°	1261.3	1366.8	2213.4	2716.4	3052.8	3221.3	3128.4	2309.7	1010.5	258.1	120.1
77.5°	426.6	461.8	1029.8	1680.7	2015.1	1863.8	1577.8	1147.2	371.6	98.2	63.7
80°	252.8	266.1	383.5	836.7	1060.3	879.1	694.0	424.0	189.1	52.4	44.5
82.5°	75.6	89.6	211.7	310.5	415.4	258.8	219.0	242.2	98.2	28.5	37.2
85°	0.0	0.0	45.1	96.2	108.8	42.5	42.5	137.3	17.9	11.9	27.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.3	2.0	2.7	6.0
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°	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4	1237.4
2.5°	1229.5	1206.2	1179.0	1153.2	1128.6	1096.8	1081.5	1062.9	1047.0	1038.4	1043.0
5°	1204.9	1168.4	1112.7	1056.3	999.2	945.5	897.1	864.5	835.4	820.1	823.4
7.5°	1183.7	1134.6	1047.7	955.4	863.9	771.7	696.7	638.3	593.2	574.6	571.3
10°	1174.4	1112.7	989.9	857.2	716.6	592.5	486.3	422.0	376.2	353.6	357.6
12.5°	1179.0	1101.4	940.8	761.0	578.6	433.9	332.4	272.0	239.5	226.3	222.9
15°	1192.3	1098.8	897.1	662.8	446.5	303.2	229.6	205.0	198.4	197.1	197.1
17.5°	1207.6	1099.4	851.9	563.3	339.0	224.9	196.4	191.8	189.8	188.4	189.1
20°	1222.8	1099.4	800.2	462.5	254.8	194.4	187.1	183.8	181.8	181.1	181.1
22.5°	1241.4	1099.4	742.5	368.9	204.4	184.5	178.5	176.5	174.5	173.8	173.2
25°	1264.0	1100.1	678.8	288.6	185.8	175.8	171.2	169.2	167.2	165.9	165.9
27.5°	1296.5	1105.4	608.4	224.9	175.2	167.9	163.9	161.9	159.9	157.9	157.9
30°	1343.6	1118.7	529.5	185.8	165.2	159.2	155.3	153.9	151.9	150.0	149.3
32.5°	1413.9	1141.9	447.9	166.5	155.9	150.0	145.3	144.0	142.0	140.0	139.3
35°	1512.1	1184.4	368.2	154.6	144.0	138.0	135.4	134.7	132.0	130.0	130.0
37.5°	1656.1	1253.4	291.9	142.7	134.0	129.4	126.1	124.7	122.1	120.1	119.4
40°	1831.9	1342.9	226.9	133.4	124.7	120.1	116.8	114.8	111.5	108.8	107.5
42.5°	2056.2	1452.4	179.1	123.4	116.1	111.5	108.8	104.8	100.2	96.2	95.5
45°	2289.7	1565.2	148.0	114.1	108.2	104.2	100.9	95.5	88.9	84.3	82.9
47.5°	2468.9	1635.5	129.4	104.2	99.5	96.2	92.2	85.6	77.6	72.3	71.0
50°	2597.0	1646.2	115.4	94.9	92.2	88.9	82.9	75.0	66.4	61.0	59.7
52.5°	2660.0	1598.4	104.2	86.3	84.3	80.9	73.6	65.0	55.7	50.4	49.1
55°	2688.5	1508.1	93.6	79.0	76.3	72.3	64.4	55.1	45.8	41.1	39.8
57.5°	2677.2	1374.8	84.3	71.7	68.3	63.7	55.1	45.1	37.8	33.2	32.5
60°	2593.6	1187.7	75.0	64.4	60.4	55.1	46.4	37.2	30.5	27.2	26.5
62.5°	2413.2	955.4	65.7	55.7	53.1	47.8	39.8	30.5	25.2	23.2	22.6
65°	2043.6	675.4	56.4	47.1	45.8	40.5	33.2	25.2	21.9	20.6	19.9
67.5°	1469.0	410.7	47.8	40.5	39.1	34.5	27.9	21.9	19.9	19.2	19.2
70°	738.5	194.4	37.8	33.2	33.2	28.5	23.9	19.9	19.2	18.6	18.6
72.5°	250.8	82.9	28.5	25.9	27.2	24.5	20.6	18.6	18.6	18.6	18.6
75°	85.6	43.8	19.9	18.6	19.9	19.9	17.9	17.9	18.6	18.6	18.6
77.5°	55.7	29.2	13.9	12.6	15.3	15.3	15.3	16.6	17.9	17.9	17.9
80°	45.8	15.9	9.3	8.6	11.3	11.3	12.6	15.3	16.6	16.6	16.6
82.5°	39.1	10.0	5.3	6.0	8.0	8.6	10.6	12.6	14.6	15.3	15.3
85°	26.5	5.3	4.0	4.6	5.3	6.6	8.6	10.6	11.9	13.3	13.3
87.5°	7.3	2.0	2.7	3.3	3.3	4.6	6.6	8.0	9.3	10.0	10.0
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)