

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: P636552

Luminaire Tested: GWS-SA4B-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636552
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-SA4B-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8400.5 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

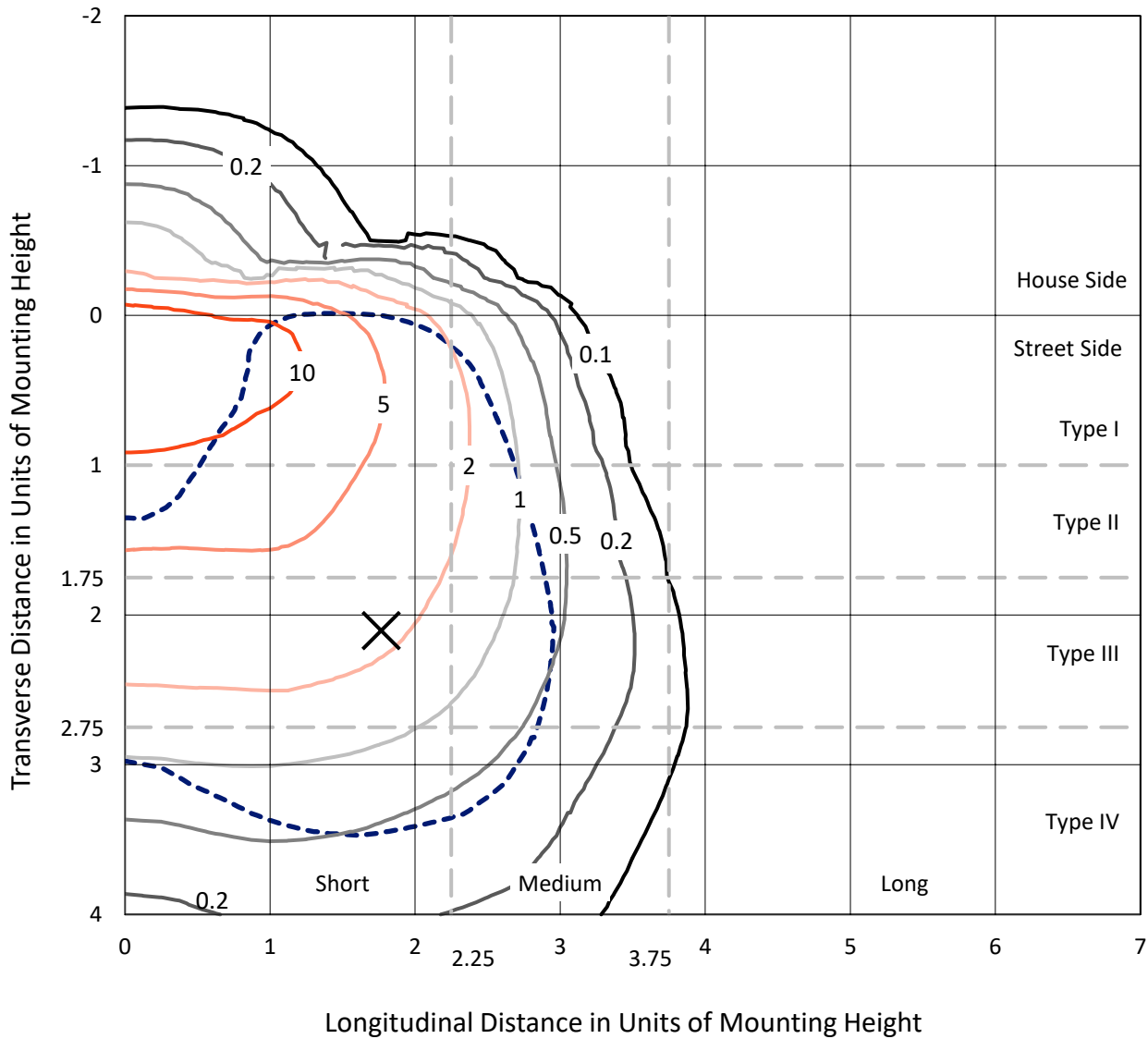
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

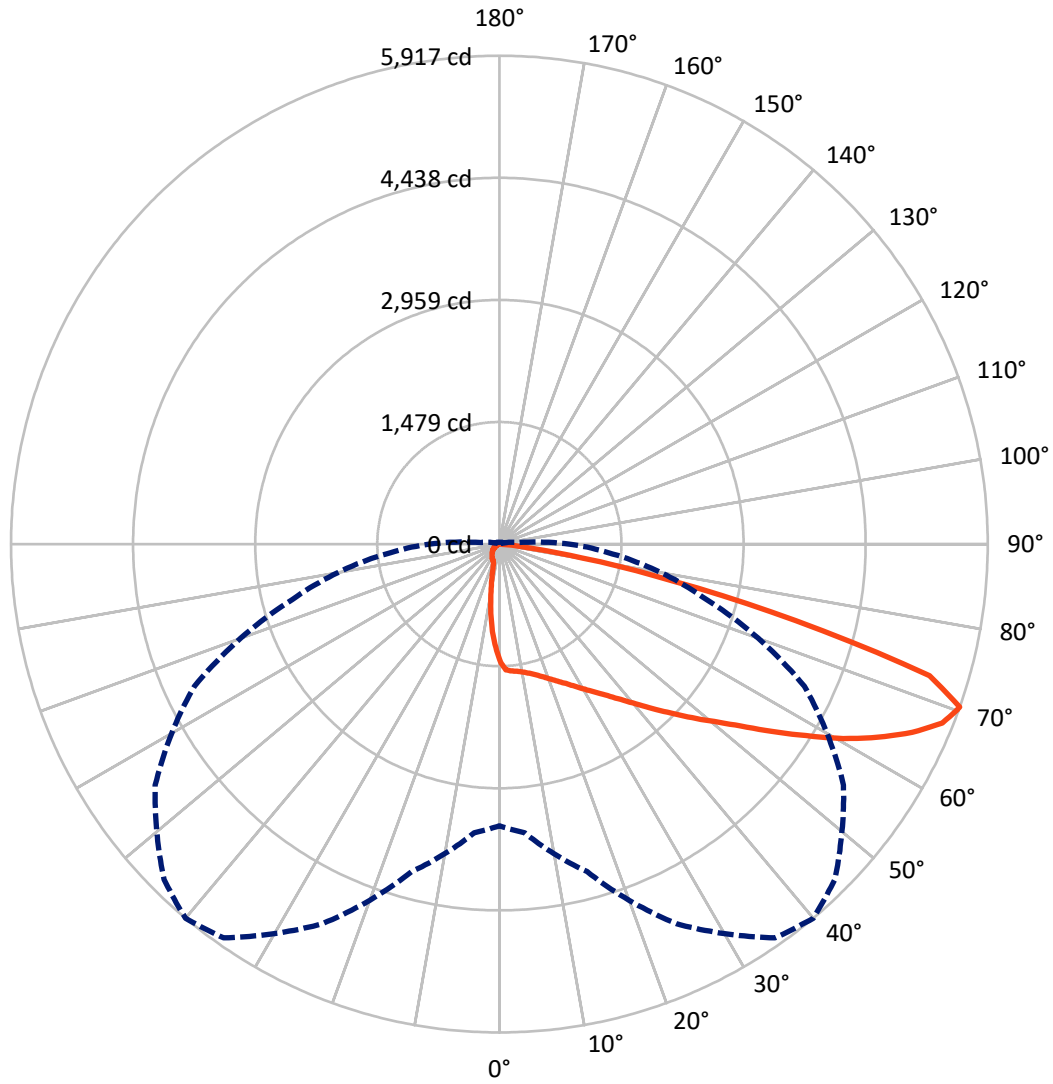
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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	686.9	0.0	686.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	7713.5	0.0	7713.5
	% Fixture	91.8	0.0	91.8
Total	Lumens	8400.5	0.0	8400.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.4
10°-20°	305.6	3.6
20°-30°	511.4	6.1
30°-40°	803.2	9.6
40°-50°	1270.5	15.1
50°-60°	1853.4	22.1
60°-70°	2297.5	27.4
70°-80°	1162.4	13.8
80°-90°	75.9	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°	8400.5	100.0
0°-180°	8400.5	100.0

Coefficient of Utilization



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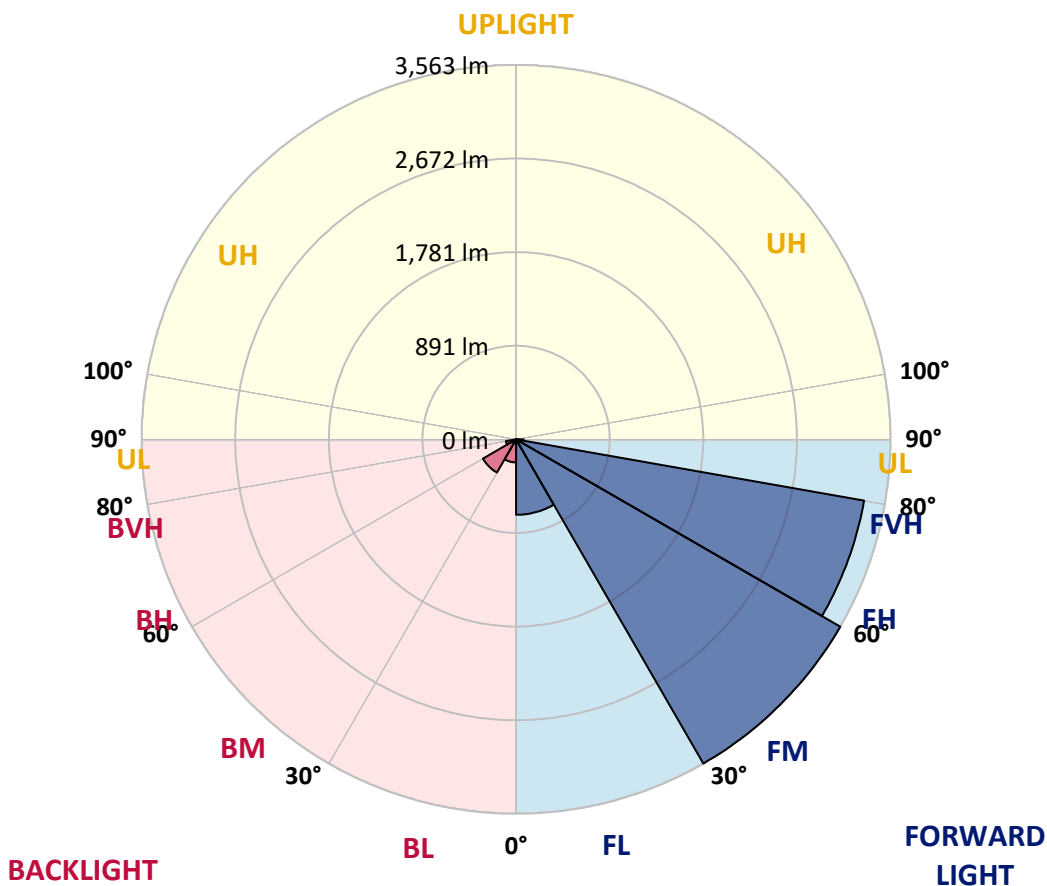
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.1	8.5			
FM (30°-60°)	3562.6	42.4			
FH (60°-80°)	3362.0	40.0			G2/5000
FVH (80°-90°)	70.9	0.8			G1/100
BL (0°-30°)	219.4	2.6	B1/500		
BM (30°-60°)	364.6	4.3	B1/1000		
BH (60°-80°)	97.9	1.2	B0/110		G0/110
BVH (80°-90°)	5.0	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°	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5
2.5°	1532.5	1537.8	1537.1	1539.3	1534.0	1525.6	1524.1	1512.6	1492.0	1466.0	1436.9
5°	1563.8	1569.9	1565.3	1563.0	1553.1	1543.9	1541.6	1529.4	1505.7	1470.6	1420.1
7.5°	1590.6	1592.1	1589.0	1583.7	1569.2	1556.9	1548.5	1531.7	1503.4	1468.3	1410.2
10°	1595.1	1594.4	1595.9	1596.7	1587.5	1576.8	1569.9	1547.0	1511.1	1473.6	1410.9
12.5°	1589.8	1589.8	1599.7	1611.2	1611.2	1605.8	1599.0	1578.3	1536.3	1492.0	1426.2
15°	1596.7	1599.0	1618.1	1639.5	1646.4	1641.0	1637.9	1616.5	1573.0	1524.1	1453.7
17.5°	1621.1	1623.4	1654.0	1686.1	1694.5	1688.4	1682.3	1660.9	1614.3	1560.7	1485.1
20°	1657.1	1663.2	1702.1	1743.4	1751.1	1743.4	1731.2	1701.4	1654.8	1600.5	1514.9
22.5°	1722.8	1726.6	1768.6	1812.2	1816.0	1803.8	1785.5	1744.2	1695.3	1642.5	1548.5
25°	1809.9	1815.3	1857.3	1899.3	1889.4	1871.1	1845.8	1799.2	1743.4	1692.2	1591.3
27.5°	1913.9	1920.0	1961.3	1997.9	1972.0	1950.6	1922.3	1864.2	1807.6	1761.0	1646.4
30°	2026.2	2031.6	2068.3	2101.1	2066.7	2041.5	2007.9	1948.3	1890.9	1855.8	1724.3
32.5°	2134.8	2134.0	2169.2	2195.9	2160.7	2140.9	2110.3	2049.9	2004.1	1988.8	1840.5
35°	2235.6	2235.6	2264.7	2291.4	2266.2	2255.5	2227.2	2179.1	2153.1	2171.4	1995.6
37.5°	2337.3	2332.0	2359.5	2389.3	2387.0	2387.7	2371.7	2348.8	2350.3	2415.3	2208.9
40°	2421.4	2419.1	2451.2	2490.2	2520.7	2545.2	2535.3	2543.7	2591.8	2713.3	2481.8
42.5°	2488.6	2494.0	2535.3	2597.2	2674.4	2724.1	2730.9	2765.3	2889.1	3077.2	2789.8
45°	2565.8	2566.6	2623.9	2718.7	2841.8	2920.5	2948.0	3036.7	3212.5	3454.7	3127.6
47.5°	2660.6	2651.4	2715.6	2848.6	3026.7	3142.9	3191.8	3302.6	3574.7	3823.1	3402.8
50°	2765.3	2748.5	2821.1	3002.3	3233.9	3379.1	3478.4	3640.5	3934.0	4125.8	3607.6
52.5°	2886.9	2870.8	2953.3	3178.8	3482.3	3658.8	3786.5	3950.0	4242.0	4356.6	3729.9
55°	3041.2	3025.2	3112.3	3390.5	3775.8	4005.1	4138.8	4276.4	4528.6	4527.1	3818.6
57.5°	3212.5	3190.3	3311.1	3658.1	4141.9	4380.3	4516.4	4583.7	4746.5	4659.3	3878.2
60°	3408.9	3389.0	3556.4	3976.8	4564.5	4785.4	4871.0	4843.5	4925.3	4737.3	3857.5
62.5°	3586.2	3577.0	3784.9	4314.6	4967.3	5153.8	5177.5	5057.5	5056.8	4738.8	3718.4
65°	3770.4	3788.0	4096.8	4703.6	5372.4	5497.8	5457.3	5270.0	5109.5	4551.5	3307.2
67.5°	3839.2	3890.4	4302.4	5055.2	5691.9	5789.8	5718.7	5376.3	4890.1	3921.7	2518.4
70°	3414.2	3510.5	4108.2	5075.1	5824.1	5917.4	5747.0	5090.4	4076.9	2597.9	1379.6
72.5°	2596.4	2708.8	3423.4	4155.6	5237.9	5450.4	5159.2	4147.2	2627.7	1138.1	463.2
75°	1453.0	1574.5	2549.8	3129.1	3516.7	3710.8	3603.8	2660.6	1164.1	297.3	138.3
77.5°	491.5	532.0	1186.2	1936.0	2321.3	2147.0	1817.6	1321.5	428.0	113.1	73.4
80°	291.2	306.5	441.8	963.8	1221.4	1012.7	799.5	488.4	217.8	60.4	51.2
82.5°	87.1	103.2	243.8	357.7	478.5	298.1	252.2	279.0	113.1	32.9	42.8
85°	0.0	0.0	52.0	110.8	125.3	48.9	48.9	158.2	20.6	13.8	31.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.8	2.3	3.1	6.9
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°	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5
2.5°	1416.3	1389.5	1358.2	1328.4	1300.1	1263.4	1245.8	1224.4	1206.1	1196.2	1201.5
5°	1388.0	1346.0	1281.8	1216.8	1151.1	1089.2	1033.4	995.9	962.3	944.7	948.5
7.5°	1363.6	1307.0	1206.9	1100.6	995.1	888.9	802.5	735.3	683.3	661.9	658.1
10°	1352.9	1281.8	1140.4	987.5	825.5	682.5	560.2	486.1	433.4	407.4	412.0
12.5°	1358.2	1268.8	1083.8	876.7	666.5	499.9	382.9	313.4	275.9	260.6	256.8
15°	1373.5	1265.7	1033.4	763.6	514.4	349.3	264.5	236.2	228.5	227.0	227.0
17.5°	1391.1	1266.5	981.4	648.9	390.6	259.1	226.2	220.9	218.6	217.1	217.8
20°	1408.6	1266.5	921.8	532.7	293.5	223.9	215.5	211.7	209.4	208.7	208.7
22.5°	1430.1	1266.5	855.3	425.0	235.4	212.5	205.6	203.3	201.0	200.3	199.5
25°	1456.0	1267.2	781.9	332.5	214.0	202.5	197.2	194.9	192.6	191.1	191.1
27.5°	1493.5	1273.4	700.9	259.1	201.8	193.4	188.8	186.5	184.2	181.9	181.9
30°	1547.8	1288.7	609.9	214.0	190.3	183.4	178.9	177.3	175.0	172.7	172.0
32.5°	1628.8	1315.4	515.9	191.8	179.6	172.7	167.4	165.9	163.6	161.3	160.5
35°	1741.9	1364.3	424.2	178.1	165.9	159.0	155.9	155.2	152.1	149.8	149.8
37.5°	1907.8	1443.8	336.3	164.3	154.4	149.0	145.2	143.7	140.6	138.3	137.6
40°	2110.3	1547.0	261.4	153.6	143.7	138.3	134.5	132.2	128.4	125.3	123.8
42.5°	2368.6	1673.1	206.4	142.2	133.8	128.4	125.3	120.8	115.4	110.8	110.1
45°	2637.7	1803.0	170.4	131.5	124.6	120.0	116.2	110.1	102.4	97.1	95.5
47.5°	2844.0	1884.1	149.0	120.0	114.6	110.8	106.2	98.6	89.4	83.3	81.8
50°	2991.6	1896.3	133.0	109.3	106.2	102.4	95.5	86.4	76.4	70.3	68.8
52.5°	3064.2	1841.3	120.0	99.4	97.1	93.2	84.8	74.9	64.2	58.1	56.6
55°	3097.0	1737.3	107.8	91.0	87.9	83.3	74.1	63.4	52.7	47.4	45.9
57.5°	3084.0	1583.7	97.1	82.5	78.7	73.4	63.4	52.0	43.6	38.2	37.5
60°	2987.7	1368.1	86.4	74.1	69.6	63.4	53.5	42.8	35.2	31.3	30.6
62.5°	2779.8	1100.6	75.7	64.2	61.1	55.0	45.9	35.2	29.0	26.8	26.0
65°	2354.1	778.1	65.0	54.3	52.7	46.6	38.2	29.0	25.2	23.7	22.9
67.5°	1692.2	473.1	55.0	46.6	45.1	39.7	32.1	25.2	22.9	22.2	22.2
70°	850.7	223.9	43.6	38.2	38.2	32.9	27.5	22.9	22.2	21.4	21.4
72.5°	288.9	95.5	32.9	29.8	31.3	28.3	23.7	21.4	21.4	21.4	21.4
75°	98.6	50.4	22.9	21.4	22.9	22.9	20.6	20.6	21.4	21.4	21.4
77.5°	64.2	33.6	16.1	14.5	17.6	17.6	17.6	19.1	20.6	20.6	20.6
80°	52.7	18.3	10.7	9.9	13.0	13.0	14.5	17.6	19.1	19.1	19.1
82.5°	45.1	11.5	6.1	6.9	9.2	9.9	12.2	14.5	16.8	17.6	17.6
85°	30.6	6.1	4.6	5.4	6.1	7.6	9.9	12.2	13.8	15.3	15.3
87.5°	8.4	2.3	3.1	3.8	3.8	5.4	7.6	9.2	10.7	11.5	11.5
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)