

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: P629830

Luminaire Tested: GWS-SA1C-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4360.5 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

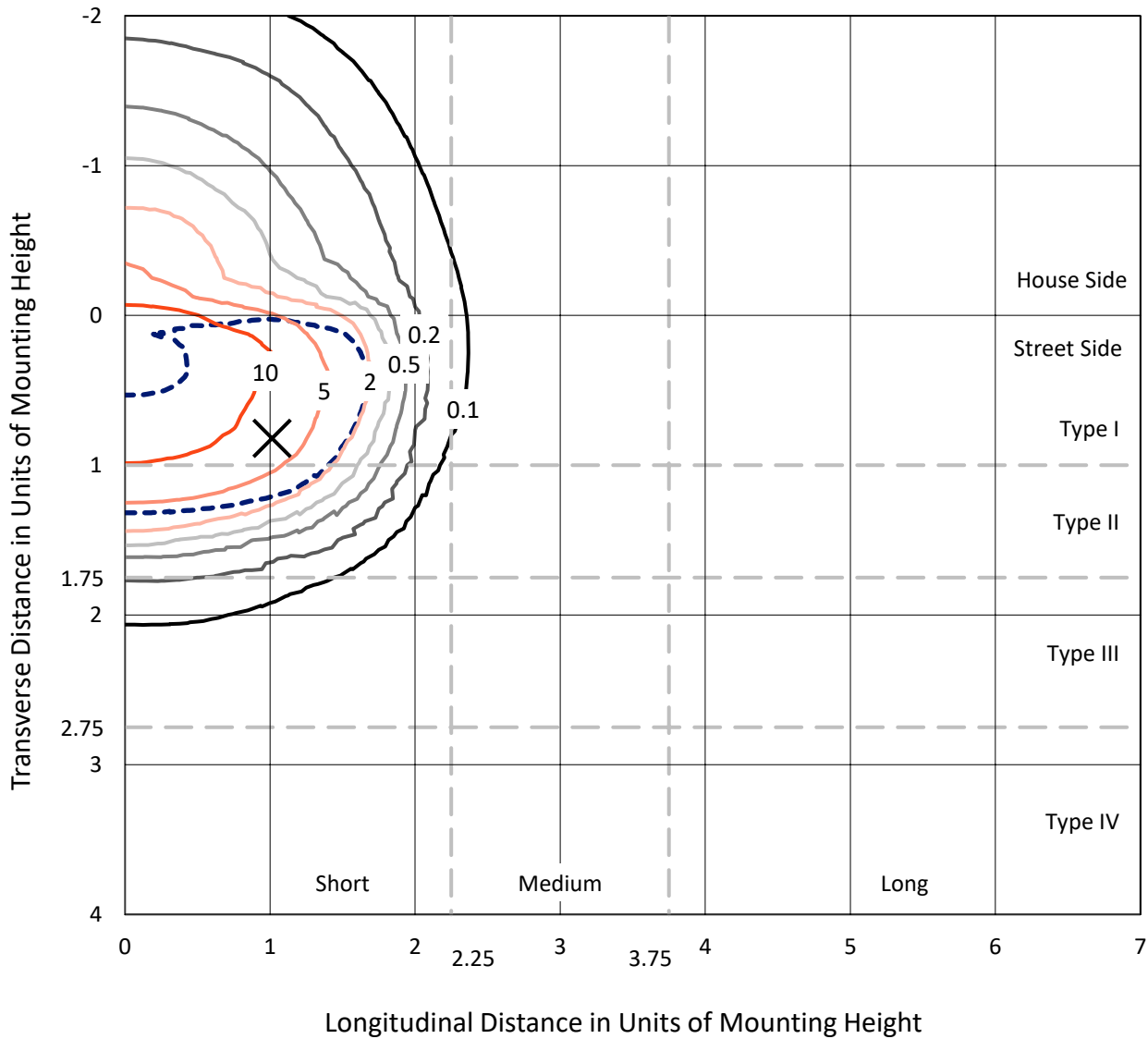
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629830
 CATALOG NUMBER: GWS-SA1C-740-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

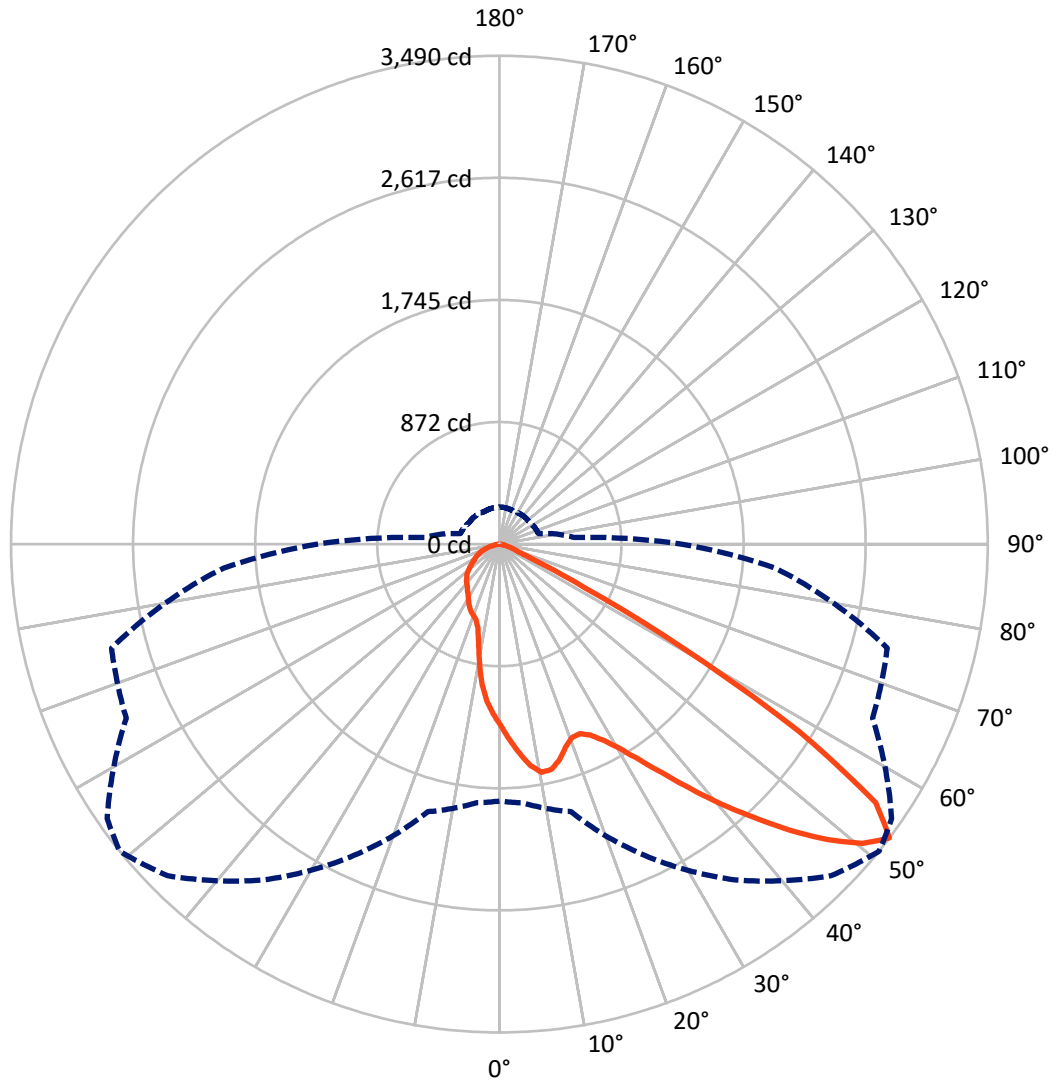
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P629830
CATALOG NUMBER: GWS-SA1C-740-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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CATALOG NUMBER: GWS-SA1C-740-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	849.6	0.0	849.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3510.9	0.0	3510.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	4360.5	0.0	4360.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	2.8
10°-20°	314.8	7.2
20°-30°	511.8	11.7
30°-40°	811.2	18.6
40°-50°	1223.4	28.1
50°-60°	1058.3	24.3
60°-70°	239.9	5.5
70°-80°	70.8	1.6
80°-90°	9.1	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°	4360.5	100.0
0°-180°	4360.5	100.0

Coefficient of Utilization



REPORT NUMBER: P629830

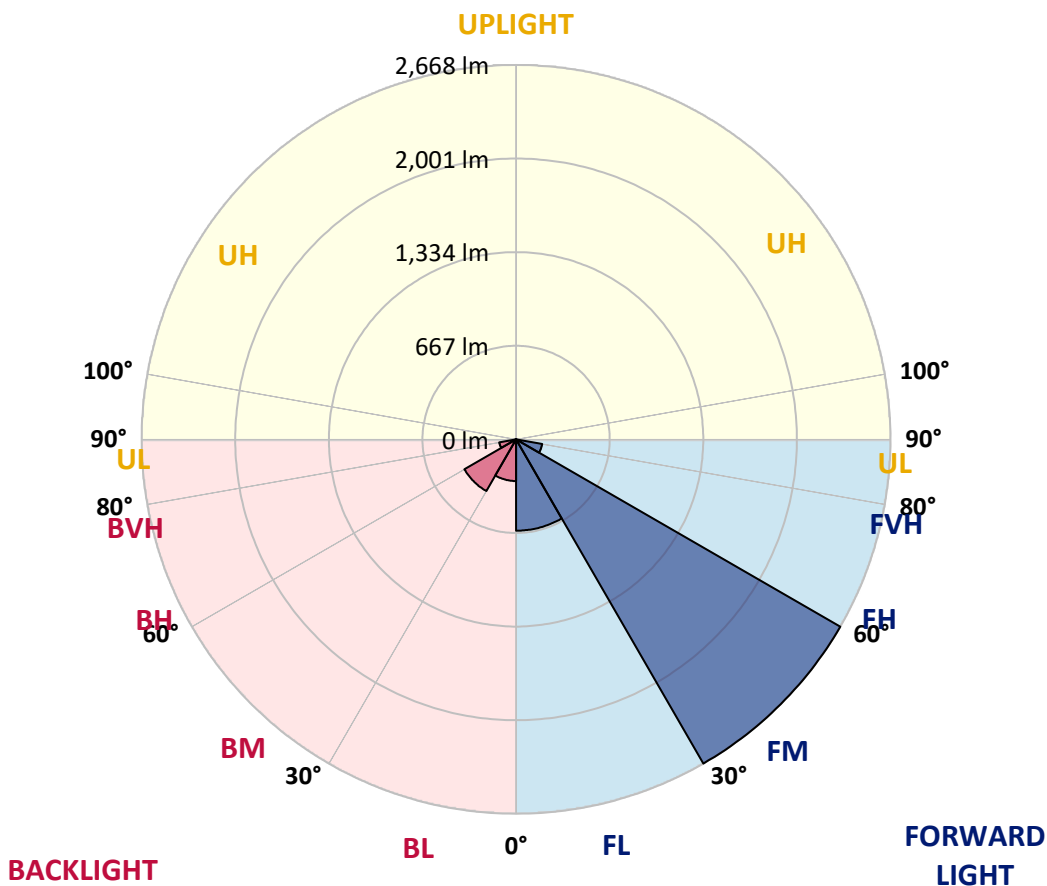
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.8	14.9			
FM (30°-60°)	2667.8	61.2			
FH (60°-80°)	188.8	4.3			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	297.0	6.8	B1/500		
BM (30°-60°)	425.1	9.7	B1/1000		
BH (60°-80°)	121.9	2.8	B1/500		G1/500
BVH (80°-90°)	5.7	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-G1

Type II Short





REPORT NUMBER: P629830

CATALOG NUMBER: GWS-SA1C-740-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3
2.5°	1446.8	1455.1	1442.4	1437.5	1429.6	1415.8	1400.0	1395.5	1361.4	1339.0	1313.8
5°	1592.3	1596.7	1586.4	1576.1	1556.4	1532.0	1501.3	1494.7	1432.7	1381.4	1328.0
7.5°	1624.6	1622.9	1631.9	1637.7	1635.3	1625.7	1598.5	1585.7	1511.6	1430.3	1351.4
10°	1496.5	1486.8	1519.9	1559.2	1606.4	1660.8	1657.7	1656.7	1592.3	1496.1	1381.4
12.5°	1326.6	1321.8	1348.6	1397.9	1487.2	1607.8	1652.9	1688.0	1665.0	1558.8	1414.8
15°	1229.4	1227.7	1246.0	1281.5	1352.4	1504.7	1601.2	1670.8	1727.3	1626.0	1450.3
17.5°	1211.9	1212.9	1219.1	1239.4	1290.4	1415.8	1527.5	1624.6	1775.9	1699.8	1494.7
20°	1263.2	1270.1	1259.4	1262.5	1290.1	1383.8	1477.2	1578.1	1806.9	1773.8	1542.6
22.5°	1377.2	1374.8	1351.4	1337.6	1338.0	1403.4	1471.7	1556.4	1827.3	1845.9	1586.1
25°	1506.5	1503.7	1475.8	1445.1	1425.8	1456.8	1511.3	1579.5	1845.5	1911.7	1620.9
27.5°	1659.1	1650.5	1619.5	1580.2	1537.5	1550.9	1587.8	1641.9	1873.8	1976.5	1643.9
30°	1806.9	1816.9	1772.5	1725.9	1680.8	1672.5	1693.9	1742.8	1931.3	2052.3	1671.5
32.5°	2003.0	1999.5	1950.3	1889.6	1825.2	1819.0	1835.9	1880.7	2034.7	2157.0	1713.5
35°	2240.4	2241.1	2171.1	2089.1	1997.5	1980.9	2009.2	2052.6	2188.7	2299.0	1780.0
37.5°	2487.1	2486.1	2425.1	2332.0	2207.0	2183.5	2215.9	2248.3	2381.3	2492.3	1883.4
40°	2660.1	2667.0	2638.4	2589.4	2470.9	2413.7	2442.3	2464.7	2590.8	2719.7	2019.5
42.5°	2758.3	2768.6	2774.8	2804.1	2741.7	2680.8	2670.4	2682.1	2777.9	2930.9	2147.4
45°	2779.3	2793.1	2838.2	2946.8	2970.9	2953.7	2919.9	2891.6	2917.5	3080.8	2231.1
47.5°	2686.6	2710.7	2807.2	2997.1	3138.0	3192.1	3154.5	3111.5	2998.1	3119.4	2222.5
50°	2319.3	2347.6	2565.0	2894.4	3161.8	3358.9	3362.3	3298.6	2988.5	3008.1	2114.3
52.5°	1836.2	1855.5	1979.9	2453.7	2928.5	3352.0	3489.8	3421.6	2941.9	2868.9	1978.9
55°	1097.5	1128.5	1244.6	1618.8	2281.4	2970.9	3264.5	3297.5	2919.2	2752.1	1886.5
57.5°	370.4	385.6	496.5	715.0	1344.5	2175.3	2522.2	2656.6	2650.1	2573.6	1706.3
60°	176.4	179.9	202.3	271.2	538.2	1136.7	1493.0	1648.1	1789.4	1803.5	1061.6
62.5°	134.4	136.4	147.8	162.6	216.4	479.0	684.3	802.8	857.6	736.0	386.6
65°	112.3	114.1	122.7	132.0	147.1	207.4	262.6	302.9	272.9	212.6	184.3
67.5°	93.7	95.1	101.6	111.6	122.0	138.9	145.8	149.9	157.1	176.4	169.5
70°	73.4	74.8	81.7	90.3	100.3	104.4	111.0	115.1	129.6	154.4	153.7
72.5°	56.5	58.2	62.0	67.5	75.8	79.9	87.2	92.0	100.3	120.3	128.5
75°	41.3	42.4	45.8	47.6	48.6	47.6	54.8	60.3	71.3	78.9	81.0
77.5°	16.9	19.0	18.3	18.3	21.7	26.2	30.0	33.4	41.0	45.5	45.8
80°	6.9	7.6	9.0	10.0	12.1	15.5	17.9	19.3	22.7	25.5	27.6
82.5°	4.1	4.5	5.2	5.5	6.9	9.0	10.3	11.4	14.1	16.9	17.9
85°	2.1	2.1	2.4	2.8	3.4	4.1	4.8	5.5	7.2	9.0	10.0
87.5°	0.3	0.3	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P629830
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3	1298.3
2.5°	1299.0	1280.4	1258.7	1241.5	1221.5	1206.7	1185.7	1172.6	1160.2	1149.8	1142.2
5°	1300.4	1269.0	1223.9	1183.9	1142.6	1103.3	1063.0	1030.3	1001.0	976.5	974.4
7.5°	1308.3	1263.2	1192.6	1122.6	1042.0	964.1	886.2	822.8	774.6	749.4	744.3
10°	1321.8	1262.5	1160.5	1048.9	911.4	786.0	693.6	645.4	617.5	607.5	604.0
12.5°	1335.9	1260.8	1119.5	944.8	753.9	644.0	593.3	587.5	592.7	593.3	593.0
15°	1353.1	1259.7	1067.8	822.8	638.8	578.2	581.6	594.0	606.1	608.9	608.9
17.5°	1374.1	1257.3	997.5	703.6	566.8	565.4	583.7	600.2	611.6	613.7	613.7
20°	1396.2	1251.1	911.0	606.4	537.5	557.5	577.2	589.9	597.8	600.6	600.9
22.5°	1411.4	1234.6	811.5	534.4	519.3	542.4	556.5	569.6	569.6	562.7	560.6
25°	1414.5	1199.1	703.6	485.2	497.6	518.9	533.4	525.8	511.7	506.2	505.8
27.5°	1403.1	1147.4	597.1	450.0	471.4	492.7	490.3	479.3	473.1	467.6	469.6
30°	1389.3	1085.4	504.8	421.1	441.0	462.1	453.8	450.0	445.5	439.3	440.7
32.5°	1380.0	1016.1	433.8	398.7	420.7	424.2	430.0	429.7	425.5	413.8	413.1
35°	1382.8	946.2	386.3	380.4	403.8	402.5	413.5	411.4	382.8	366.6	365.6
37.5°	1404.8	879.0	358.4	365.9	377.0	385.6	395.2	370.4	360.4	350.1	350.8
40°	1446.8	816.6	343.2	358.0	360.8	373.5	351.1	350.8	346.3	337.0	336.6
42.5°	1494.4	763.9	332.9	354.2	350.4	352.8	329.1	331.8	331.5	325.6	323.9
45°	1523.3	715.3	324.6	340.1	341.1	317.0	309.8	312.9	314.6	311.5	311.1
47.5°	1493.4	659.5	316.0	318.4	327.3	300.8	291.9	292.2	295.3	295.6	294.3
50°	1409.3	597.1	305.6	299.8	293.9	283.9	275.7	273.9	277.0	280.1	281.2
52.5°	1300.8	537.5	288.4	279.4	265.7	265.7	261.9	256.4	260.5	264.6	266.0
55°	1221.2	493.4	263.9	253.9	238.8	244.0	243.3	238.4	244.0	247.1	248.1
57.5°	1058.2	396.6	232.2	229.1	216.4	222.6	224.0	217.8	215.0	215.7	216.7
60°	628.2	256.0	209.5	209.2	197.8	205.0	209.2	203.0	194.7	195.7	197.1
62.5°	281.9	195.7	180.9	179.5	179.2	188.5	193.0	187.1	175.4	176.4	177.8
65°	177.5	169.2	157.1	157.1	162.6	170.6	174.0	169.2	155.7	154.0	155.4
67.5°	164.7	157.5	145.1	142.7	145.4	152.0	152.3	143.0	135.1	133.7	133.7
70°	147.8	142.3	130.2	125.4	124.4	124.0	123.0	120.6	115.4	114.1	114.7
72.5°	122.3	118.5	111.0	105.8	103.0	102.7	98.5	96.5	92.0	91.3	91.0
75°	81.0	82.0	82.0	81.3	78.9	77.9	73.4	71.3	66.2	64.1	63.7
77.5°	47.9	48.9	50.3	50.7	50.3	50.3	46.2	43.8	38.6	35.8	35.1
80°	29.3	30.0	30.7	31.7	30.3	29.3	25.5	23.1	20.7	19.0	18.6
82.5°	19.0	19.6	20.0	20.7	20.0	18.6	15.5	14.1	12.4	11.0	10.7
85°	10.7	11.0	11.7	11.7	10.7	9.6	7.9	6.9	5.9	5.2	5.2
87.5°	3.8	3.8	3.8	4.1	3.4	3.1	2.1	1.4	1.0	1.0	1.0
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)