

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: P630213

Luminaire Tested: GWS-SA1D-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630213
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-SA1D-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5009.4 lumens
Efficiency: N/A
Efficacy: 113.1 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

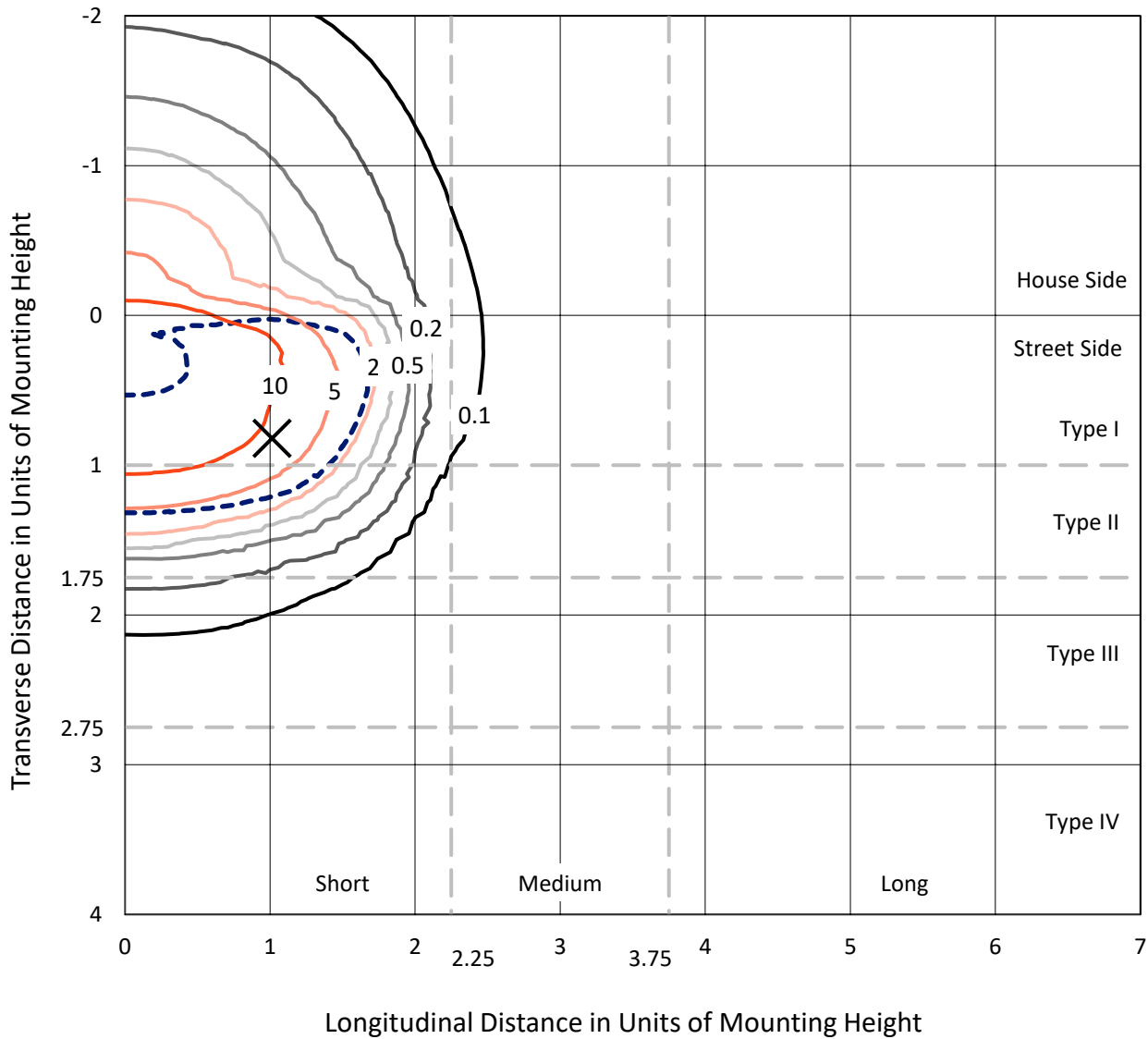
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630213
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Iso-Footcandle Lines of Horizontal Illumination

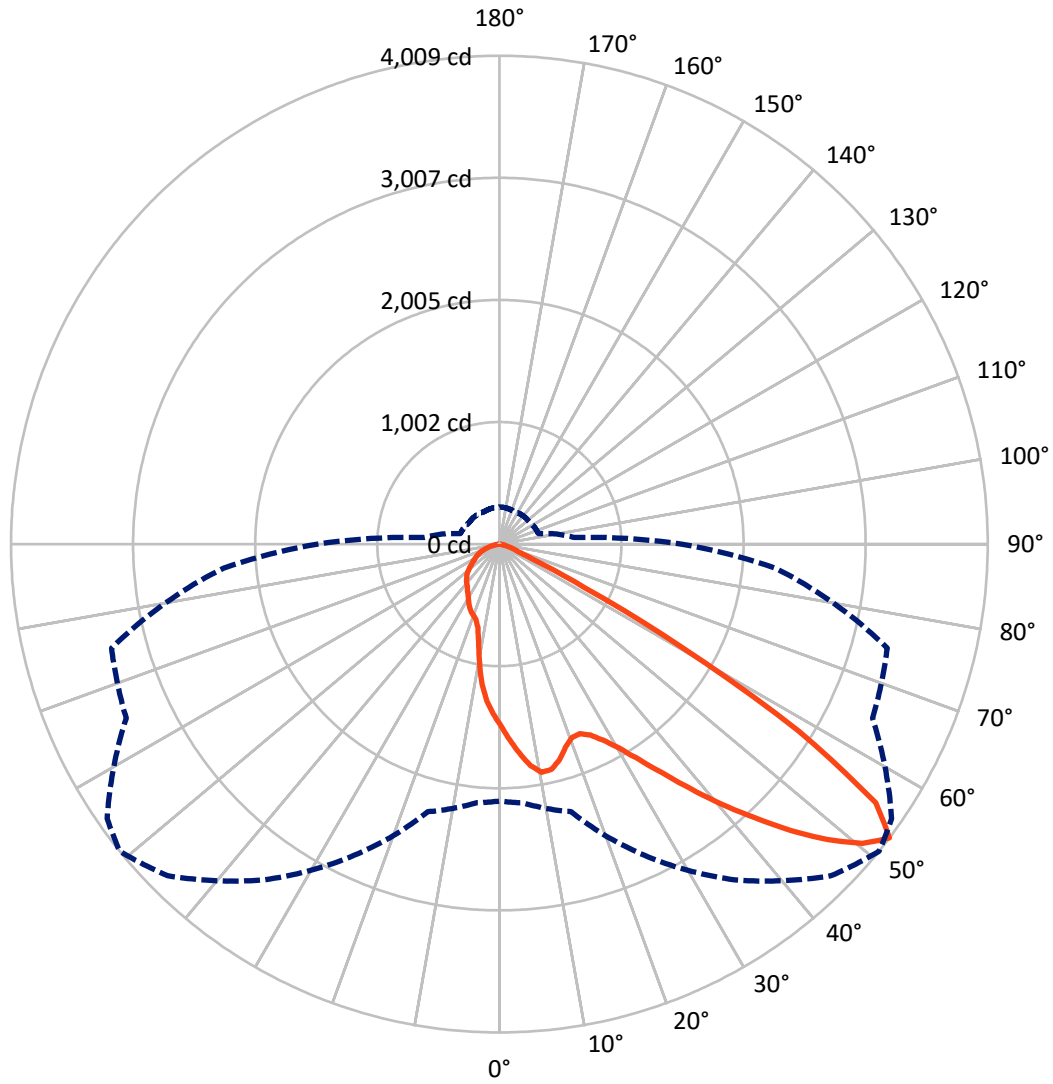
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

REPORT NUMBER: P630213
CATALOG NUMBER: GWS-SA1D-730-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-SA1D-730-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	976.0	0.0	976.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4033.4	0.0	4033.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	5009.4	0.0	5009.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	2.8
10°-20°	361.7	7.2
20°-30°	588.0	11.7
30°-40°	931.9	18.6
40°-50°	1405.5	28.1
50°-60°	1215.8	24.3
60°-70°	275.6	5.5
70°-80°	81.3	1.6
80°-90°	10.5	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°	5009.4	100.0
0°-180°	5009.4	100.0

Coefficient of Utilization



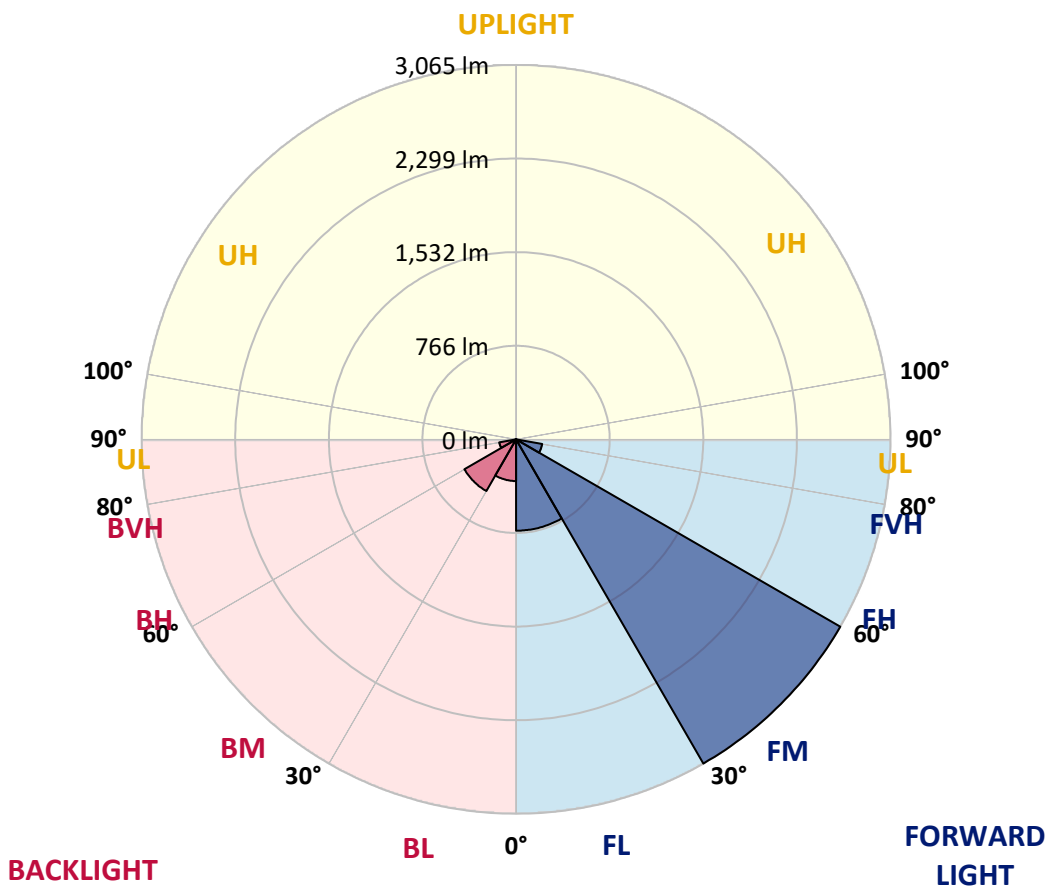
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	747.7	14.9			
FM (30°-60°)	3064.8	61.2			
FH (60°-80°)	216.9	4.3			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	341.2	6.8	B1/500		
BM (30°-60°)	488.3	9.7	B1/1000		
BH (60°-80°)	140.0	2.8	B1/500		G1/500
BVH (80°-90°)	6.5	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: P630213

CATALOG NUMBER: GWS-SA1D-730-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5
2.5°	1662.2	1671.7	1657.0	1651.5	1642.4	1626.5	1608.3	1603.2	1564.0	1538.3	1509.4
5°	1829.2	1834.4	1822.5	1810.6	1788.0	1759.9	1724.7	1717.2	1645.9	1586.9	1525.6
7.5°	1866.4	1864.4	1874.7	1881.5	1878.7	1867.6	1836.3	1821.7	1736.6	1643.2	1552.5
10°	1719.2	1708.1	1746.1	1791.2	1845.4	1908.0	1904.4	1903.2	1829.2	1718.8	1586.9
12.5°	1524.0	1518.5	1549.3	1605.9	1708.5	1847.0	1898.9	1939.3	1912.7	1790.8	1625.3
15°	1412.4	1410.4	1431.4	1472.2	1553.7	1728.7	1839.5	1919.5	1984.4	1868.0	1666.1
17.5°	1392.2	1393.4	1400.5	1423.9	1482.4	1626.5	1754.8	1866.4	2040.2	1952.7	1717.2
20°	1451.2	1459.1	1446.8	1450.4	1482.0	1589.7	1697.0	1813.0	2075.8	2037.8	1772.2
22.5°	1582.2	1579.4	1552.5	1536.7	1537.1	1612.3	1690.7	1788.0	2099.2	2120.5	1822.1
25°	1730.6	1727.5	1695.4	1660.2	1638.0	1673.6	1736.2	1814.6	2120.2	2196.2	1862.1
27.5°	1906.0	1896.1	1860.5	1815.4	1766.3	1781.7	1824.1	1886.2	2152.6	2270.6	1888.6
30°	2075.8	2087.3	2036.2	1982.8	1930.9	1921.4	1946.0	2002.2	2218.7	2357.7	1920.2
32.5°	2301.1	2297.1	2240.5	2170.8	2096.8	2089.7	2109.1	2160.5	2337.5	2478.0	1968.5
35°	2573.8	2574.6	2494.2	2400.0	2294.7	2275.7	2308.2	2358.1	2514.4	2641.1	2044.9
37.5°	2857.2	2856.0	2786.0	2679.1	2535.4	2508.5	2545.7	2582.9	2735.7	2863.2	2163.7
40°	3055.9	3063.8	3031.0	2974.8	2838.6	2772.9	2805.8	2831.5	2976.4	3124.4	2320.1
42.5°	3168.7	3180.6	3187.7	3221.4	3149.7	3079.7	3067.8	3081.3	3191.3	3367.1	2466.9
45°	3192.9	3208.7	3260.6	3385.3	3413.0	3393.2	3354.4	3321.9	3351.6	3539.3	2563.1
47.5°	3086.4	3114.1	3225.0	3443.1	3605.0	3667.1	3624.0	3574.5	3444.3	3583.6	2553.2
50°	2664.4	2696.9	2946.7	3325.1	3632.3	3858.7	3862.7	3789.4	3433.2	3455.7	2428.9
52.5°	2109.5	2131.6	2274.5	2818.8	3364.3	3850.8	4009.1	3930.8	3379.7	3295.8	2273.3
55°	1260.8	1296.4	1429.8	1859.7	2620.9	3413.0	3750.2	3788.2	3353.6	3161.6	2167.3
57.5°	425.5	443.0	570.4	821.4	1544.6	2499.0	2897.6	3052.0	3044.5	2956.6	1960.2
60°	202.7	206.6	232.4	311.5	618.3	1305.9	1715.2	1893.3	2055.6	2071.9	1219.6
62.5°	154.4	156.8	169.8	186.8	248.6	550.2	786.2	922.3	985.3	845.5	444.1
65°	129.0	131.0	140.9	151.6	169.0	238.3	301.6	347.9	313.5	244.2	211.8
67.5°	107.7	109.3	116.8	128.3	140.1	159.5	167.4	172.2	180.5	202.7	194.8
70°	84.3	85.9	93.8	103.7	115.2	119.9	127.5	132.2	148.8	177.3	176.5
72.5°	64.9	66.9	71.3	77.6	87.1	91.8	100.1	105.7	115.2	138.2	147.7
75°	47.5	48.7	52.6	54.6	55.8	54.6	62.9	69.3	81.9	90.6	93.0
77.5°	19.4	21.8	21.0	21.0	24.9	30.1	34.4	38.4	47.1	52.3	52.6
80°	7.9	8.7	10.3	11.5	13.9	17.8	20.6	22.2	26.1	29.3	31.7
82.5°	4.8	5.1	5.9	6.3	7.9	10.3	11.9	13.1	16.2	19.4	20.6
85°	2.4	2.4	2.8	3.2	4.0	4.8	5.5	6.3	8.3	10.3	11.5
87.5°	0.4	0.4	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	4.0
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: P630213

CATALOG NUMBER: GWS-SA1D-730-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5	1491.5
2.5°	1492.3	1471.0	1446.0	1426.2	1403.3	1386.3	1362.1	1347.1	1332.8	1320.9	1312.2
5°	1493.9	1457.9	1406.0	1360.1	1312.6	1267.5	1221.2	1183.6	1149.9	1121.8	1119.5
7.5°	1503.0	1451.2	1370.0	1289.7	1197.0	1107.6	1018.1	945.3	889.9	861.0	855.0
10°	1518.5	1450.4	1333.2	1205.0	1047.0	902.9	796.8	741.4	709.4	697.9	693.9
12.5°	1534.7	1448.4	1286.1	1085.4	866.1	739.8	681.6	674.9	680.9	681.6	681.3
15°	1554.5	1447.2	1226.7	945.3	733.9	664.2	668.2	682.4	696.3	699.5	699.5
17.5°	1578.6	1444.4	1146.0	808.3	651.2	649.6	670.6	689.6	702.6	705.0	705.0
20°	1604.0	1437.3	1046.6	696.7	617.5	640.5	663.0	677.7	686.8	690.0	690.4
22.5°	1621.4	1418.3	932.2	614.0	596.5	623.1	639.3	654.3	654.3	646.4	644.0
25°	1624.9	1377.5	808.3	557.4	571.6	596.1	612.8	604.1	587.8	581.5	581.1
27.5°	1611.9	1318.2	686.0	517.0	541.5	566.1	563.3	550.6	543.5	537.2	539.5
30°	1596.1	1246.9	579.9	483.7	506.7	530.8	521.3	517.0	511.8	504.7	506.3
32.5°	1585.4	1167.4	498.4	458.0	483.3	487.3	494.0	493.6	488.9	475.4	474.6
35°	1588.5	1087.0	443.7	437.0	463.9	462.3	475.0	472.6	439.8	421.2	420.0
37.5°	1613.9	1009.8	411.7	420.4	433.1	443.0	454.0	425.5	414.1	402.2	403.0
40°	1662.2	938.2	394.3	411.3	414.5	429.1	403.4	403.0	397.8	387.1	386.7
42.5°	1716.8	877.6	382.4	406.9	402.6	405.3	378.0	381.2	380.8	374.1	372.1
45°	1750.0	821.8	372.9	390.7	391.9	364.2	355.9	359.4	361.4	357.8	357.4
47.5°	1715.6	757.6	363.0	365.8	376.1	345.6	335.3	335.7	339.2	339.6	338.1
50°	1619.0	686.0	351.1	344.4	337.7	326.2	316.7	314.7	318.3	321.8	323.0
52.5°	1494.3	617.5	331.3	321.0	305.2	305.2	300.8	294.5	299.3	304.0	305.6
55°	1402.9	566.9	303.2	291.7	274.3	280.3	279.5	273.9	280.3	283.8	285.0
57.5°	1215.6	455.6	266.8	263.2	248.6	255.7	257.3	250.2	247.0	247.8	249.0
60°	721.6	294.1	240.7	240.3	227.2	235.5	240.3	233.2	223.7	224.8	226.4
62.5°	323.8	224.8	207.8	206.2	205.8	216.5	221.7	214.9	201.5	202.7	204.3
65°	203.9	194.4	180.5	180.5	186.8	195.9	199.9	194.4	178.9	176.9	178.5
67.5°	189.2	180.9	166.7	163.9	167.0	174.6	175.0	164.3	155.2	153.6	153.6
70°	169.8	163.5	149.6	144.1	142.9	142.5	141.3	138.5	132.6	131.0	131.8
72.5°	140.5	136.2	127.5	121.5	118.4	118.0	113.2	110.8	105.7	104.9	104.5
75°	93.0	94.2	94.2	93.4	90.6	89.5	84.3	81.9	76.0	73.6	73.2
77.5°	55.0	56.2	57.8	58.2	57.8	57.8	53.0	50.3	44.3	41.2	40.4
80°	33.6	34.4	35.2	36.4	34.8	33.6	29.3	26.5	23.8	21.8	21.4
82.5°	21.8	22.6	23.0	23.8	23.0	21.4	17.8	16.2	14.3	12.7	12.3
85°	12.3	12.7	13.5	13.5	12.3	11.1	9.1	7.9	6.7	5.9	5.9
87.5°	4.4	4.4	4.4	4.8	4.0	3.6	2.4	1.6	1.2	1.2	1.2
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)