

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: P630764

Luminaire Tested: GWS-SA1E-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6267.4 lumens
Efficiency: N/A
Efficacy: 107.3 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

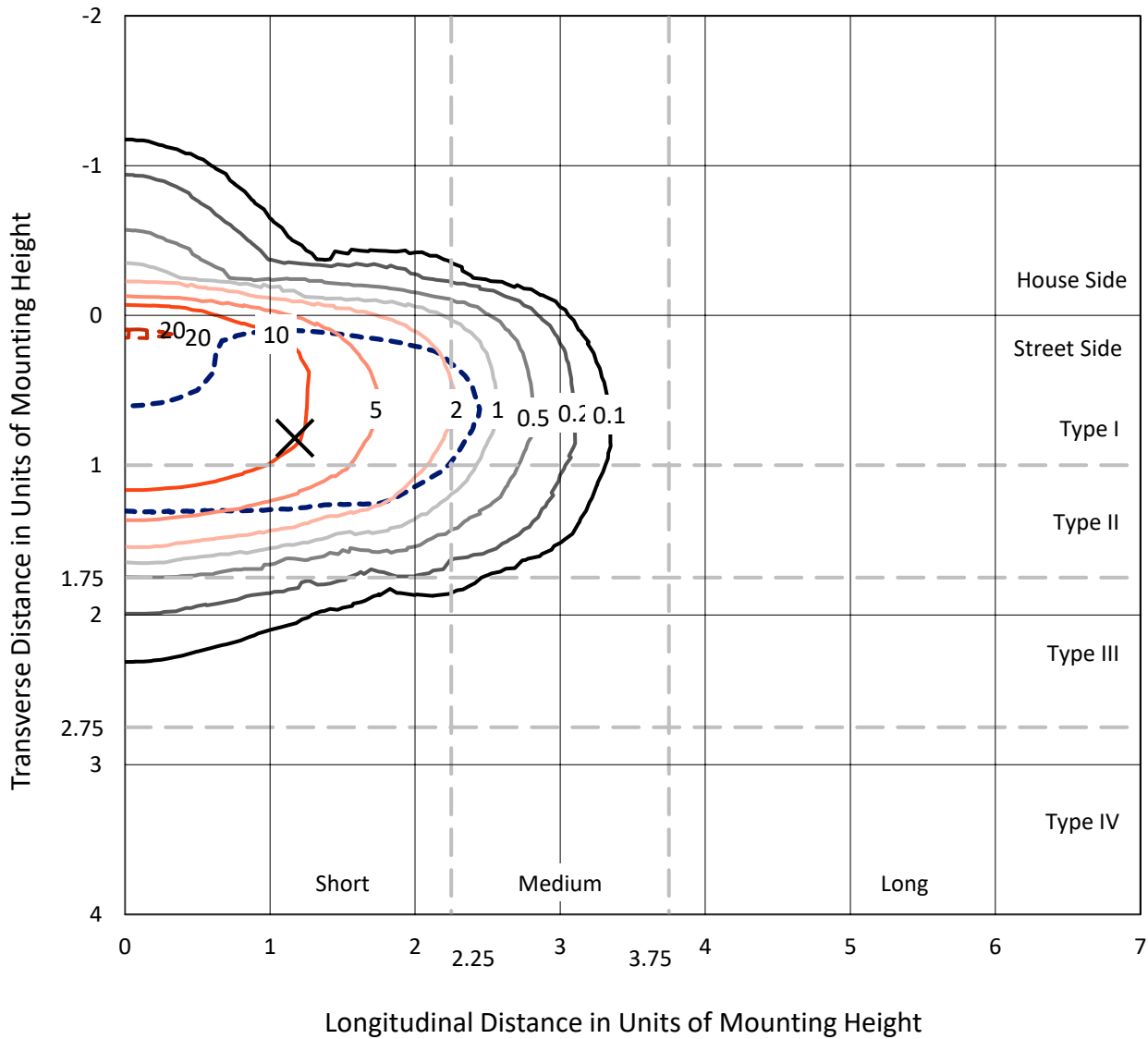
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

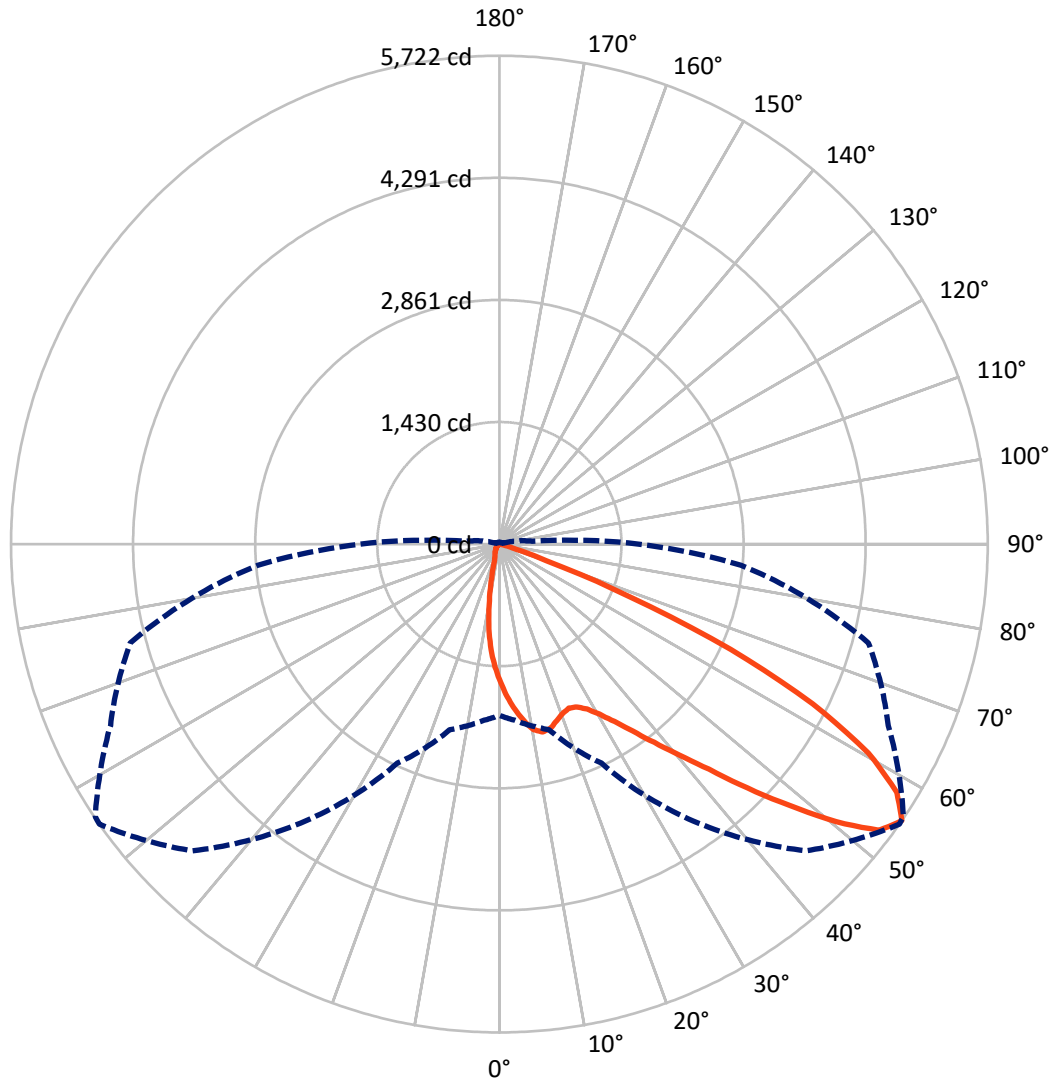
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.7	0.0	386.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5880.7	0.0	5880.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	6267.4	0.0	6267.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	2.3
10°-20°	345.0	5.5
20°-30°	574.5	9.2
30°-40°	979.0	15.6
40°-50°	1598.1	25.5
50°-60°	1673.1	26.7
60°-70°	843.9	13.5
70°-80°	106.6	1.7
80°-90°	4.0	0.1
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°	6267.4	100.0
0°-180°	6267.4	100.0

Coefficient of Utilization



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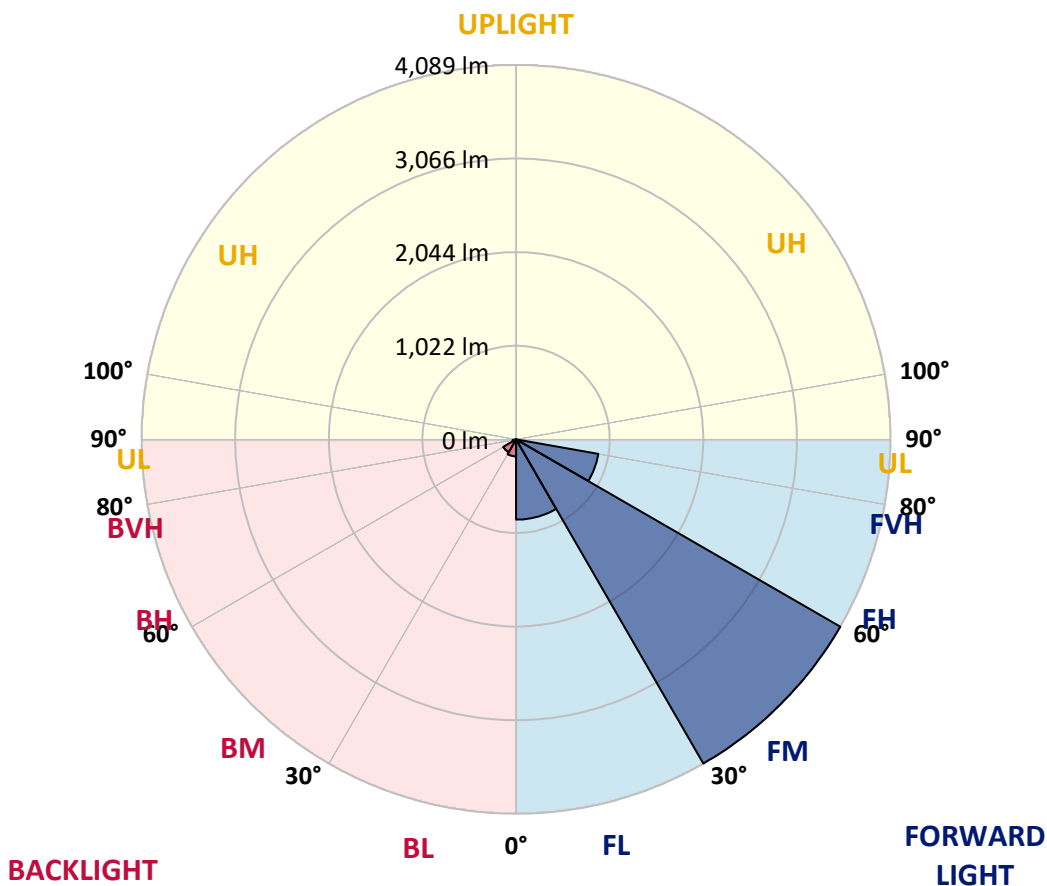
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.7	14.0			
FM (30°-60°)	4088.6	65.2			
FH (60°-80°)	911.7	14.5			G1/1800
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	185.9	3.0	B1/500		
BM (30°-60°)	161.7	2.6	B0/220		
BH (60°-80°)	38.8	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1
2.5°	1887.6	1878.4	1892.4	1876.3	1849.0	1825.9	1795.9	1785.2	1737.0	1691.5	1647.5
5°	2116.9	2119.5	2115.3	2092.8	2054.2	2011.3	1950.8	1937.4	1853.3	1766.5	1672.7
7.5°	2173.7	2172.1	2181.2	2189.7	2183.3	2161.9	2096.0	2082.6	1978.1	1847.9	1711.3
10°	1998.5	1999.5	2018.3	2076.1	2147.9	2222.4	2212.2	2204.7	2102.4	1940.1	1754.1
12.5°	1750.9	1760.6	1780.4	1862.9	1984.5	2153.8	2258.9	2266.4	2216.5	2041.3	1804.5
15°	1643.8	1645.9	1662.0	1711.8	1802.4	2011.3	2239.0	2259.9	2311.9	2143.1	1859.2
17.5°	1641.1	1643.8	1650.7	1672.7	1731.6	1899.3	2175.3	2211.7	2383.7	2252.4	1924.5
20°	1741.8	1740.2	1735.4	1723.6	1749.3	1862.4	2116.3	2156.5	2422.8	2359.0	1990.4
22.5°	1924.5	1922.4	1900.9	1852.2	1831.3	1896.1	2087.4	2123.8	2446.4	2453.9	2044.5
25°	2135.1	2150.1	2109.9	2036.0	1984.5	1982.4	2113.1	2138.8	2466.7	2538.0	2081.5
27.5°	2366.0	2370.8	2336.5	2253.5	2179.0	2120.6	2187.6	2206.9	2489.2	2613.0	2102.4
30°	2619.4	2617.8	2578.7	2482.3	2391.7	2307.6	2313.0	2320.5	2541.7	2698.7	2125.4
32.5°	2936.1	2943.0	2873.4	2742.1	2633.4	2517.1	2476.9	2478.0	2636.6	2809.1	2160.3
35°	3366.3	3349.2	3257.0	3070.0	2884.6	2759.3	2690.7	2684.8	2782.8	2957.5	2220.8
37.5°	3776.2	3777.8	3681.3	3475.6	3241.5	3043.8	2946.8	2930.7	2988.6	3163.2	2321.5
40°	4060.7	4066.0	4025.9	3918.2	3670.1	3390.4	3247.9	3231.3	3255.4	3423.6	2453.3
42.5°	4211.2	4226.2	4237.5	4262.7	4074.6	3823.3	3604.2	3602.6	3577.4	3720.5	2606.0
45°	4217.1	4239.6	4308.2	4480.2	4501.6	4317.3	4078.9	4043.0	3946.0	4038.2	2742.7
47.5°	3984.1	4036.0	4181.8	4522.5	4747.6	4808.6	4572.4	4550.4	4278.2	4289.5	2845.0
50°	3440.8	3494.9	3763.3	4305.5	4809.7	5198.7	5114.0	5068.5	4555.7	4455.6	2894.3
52.5°	2883.6	2932.9	3115.0	3789.0	4552.0	5321.4	5570.5	5516.4	4804.9	4513.4	2873.9
55°	2006.5	2072.4	2250.3	2832.1	3958.3	5082.4	5721.6	5710.3	5027.2	4477.0	2842.3
57.5°	983.7	1049.1	1226.4	1746.1	2932.3	4437.3	5490.7	5550.2	5160.1	4437.9	2816.6
60°	410.9	437.7	498.8	766.2	1640.6	3353.5	4969.4	5051.9	5078.7	4384.8	2813.9
62.5°	238.4	242.7	249.1	317.7	638.1	1922.4	4122.3	4239.6	4650.6	4314.6	2771.6
65°	180.0	181.6	179.0	195.0	263.6	729.2	2978.4	3138.1	3881.7	4040.3	2604.4
67.5°	147.9	147.9	140.9	144.1	165.6	273.2	1644.3	1867.2	2872.3	3320.8	2150.6
70°	117.9	120.6	117.3	113.0	118.4	151.1	585.1	725.4	1672.7	1961.0	1254.3
72.5°	89.5	89.5	94.8	91.6	87.9	94.8	204.1	229.3	671.3	817.6	452.7
75°	69.1	71.3	75.0	71.8	66.4	56.3	98.0	103.9	202.5	190.2	101.3
77.5°	35.4	35.9	47.7	52.5	49.3	34.3	42.9	47.1	65.9	58.9	37.5
80°	21.4	22.5	26.8	41.3	32.7	18.2	17.7	18.8	31.1	26.8	15.5
82.5°	9.1	9.6	15.0	15.0	13.4	7.0	7.0	7.0	15.0	13.9	6.4
85°	0.0	0.0	2.7	2.1	2.1	2.7	2.7	2.7	3.8	5.4	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	1.6
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°	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1	1619.1
2.5°	1619.1	1584.8	1538.8	1497.0	1440.7	1409.1	1365.2	1329.3	1298.7	1289.1	1284.8
5°	1619.7	1560.7	1462.1	1363.6	1242.5	1147.1	1049.1	971.4	907.6	887.3	881.9
7.5°	1630.4	1543.6	1383.9	1205.0	1002.4	835.3	685.8	551.9	489.7	468.8	464.5
10°	1644.8	1529.1	1293.4	1014.8	723.8	509.0	360.6	274.9	234.1	211.6	214.8
12.5°	1663.6	1517.3	1193.2	809.0	479.0	279.7	198.2	166.1	157.5	153.2	151.1
15°	1688.8	1503.4	1068.9	604.9	293.6	180.0	152.7	144.1	140.9	138.8	138.2
17.5°	1714.5	1487.3	942.4	425.4	195.0	149.5	137.2	132.9	130.7	129.1	128.6
20°	1741.8	1460.0	794.0	293.1	153.8	134.5	126.4	121.6	118.9	116.3	115.7
22.5°	1753.6	1416.1	652.0	205.2	136.6	123.8	113.6	107.7	104.5	102.3	102.3
25°	1742.4	1344.8	505.2	155.9	124.3	112.0	101.8	95.4	92.7	90.5	90.5
27.5°	1712.4	1253.2	368.6	129.1	110.9	99.7	90.0	84.1	82.0	80.9	80.9
30°	1679.1	1137.5	259.9	110.9	95.9	86.8	78.8	75.0	74.5	73.4	73.4
32.5°	1650.7	1029.2	179.0	97.5	84.7	75.5	70.2	68.6	69.1	68.0	68.6
35°	1635.2	923.2	132.9	86.8	75.5	67.0	64.3	64.3	64.3	63.8	63.8
37.5°	1641.6	818.7	108.2	79.3	67.5	61.1	58.4	59.5	60.5	60.5	60.5
40°	1673.8	726.0	95.9	72.3	60.5	55.7	53.6	55.2	56.8	57.9	57.9
42.5°	1714.5	651.0	86.8	66.4	55.7	50.4	49.3	50.9	52.5	53.6	53.6
45°	1740.2	575.4	77.7	58.9	50.9	44.5	44.5	46.6	46.1	46.6	46.6
47.5°	1752.0	515.4	68.6	50.9	43.4	38.6	39.1	40.2	39.1	40.2	40.2
50°	1723.1	454.9	60.5	42.3	35.9	33.8	34.8	34.3	34.3	36.4	36.4
52.5°	1670.0	409.9	53.6	35.9	30.5	30.0	31.1	28.9	29.5	29.5	28.9
55°	1630.9	384.2	47.7	31.1	26.3	26.8	26.3	22.5	20.4	18.2	17.7
57.5°	1611.6	374.0	43.4	27.9	23.6	23.6	21.4	15.5	11.8	9.1	8.0
60°	1607.3	361.7	39.1	24.1	20.9	19.8	15.5	9.1	5.9	4.3	3.8
62.5°	1566.6	331.6	35.4	19.3	18.2	16.1	9.6	5.4	3.2	2.1	1.6
65°	1433.2	272.7	31.6	15.0	13.9	11.8	5.9	3.2	1.6	0.5	0.0
67.5°	1140.1	193.4	27.9	11.3	9.6	7.5	3.8	2.1	0.5	0.0	0.0
70°	657.4	104.5	23.0	8.0	6.4	4.8	2.7	1.1	0.0	0.0	0.0
72.5°	219.7	48.8	17.7	5.4	4.8	3.8	1.6	0.5	0.0	0.0	0.0
75°	48.2	28.9	11.8	3.8	3.2	2.7	1.1	0.0	0.0	0.0	0.0
77.5°	18.2	20.4	5.9	2.7	2.1	1.6	0.5	0.0	0.0	0.0	0.0
80°	7.0	13.4	2.7	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	5.4	1.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	2.7	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)