

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: P637553

Luminaire Tested: GWS-SA4D-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10714.8 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

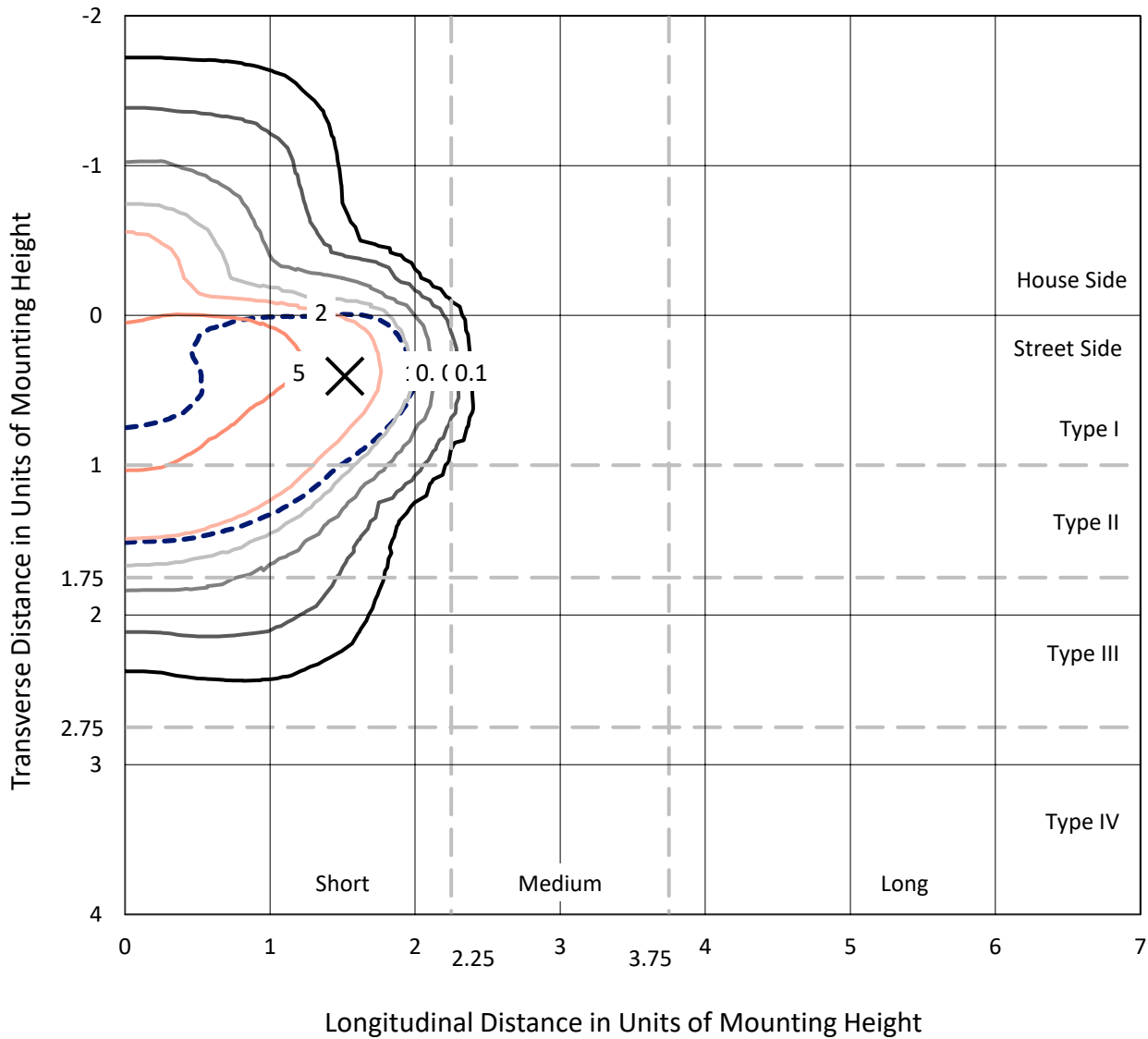
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

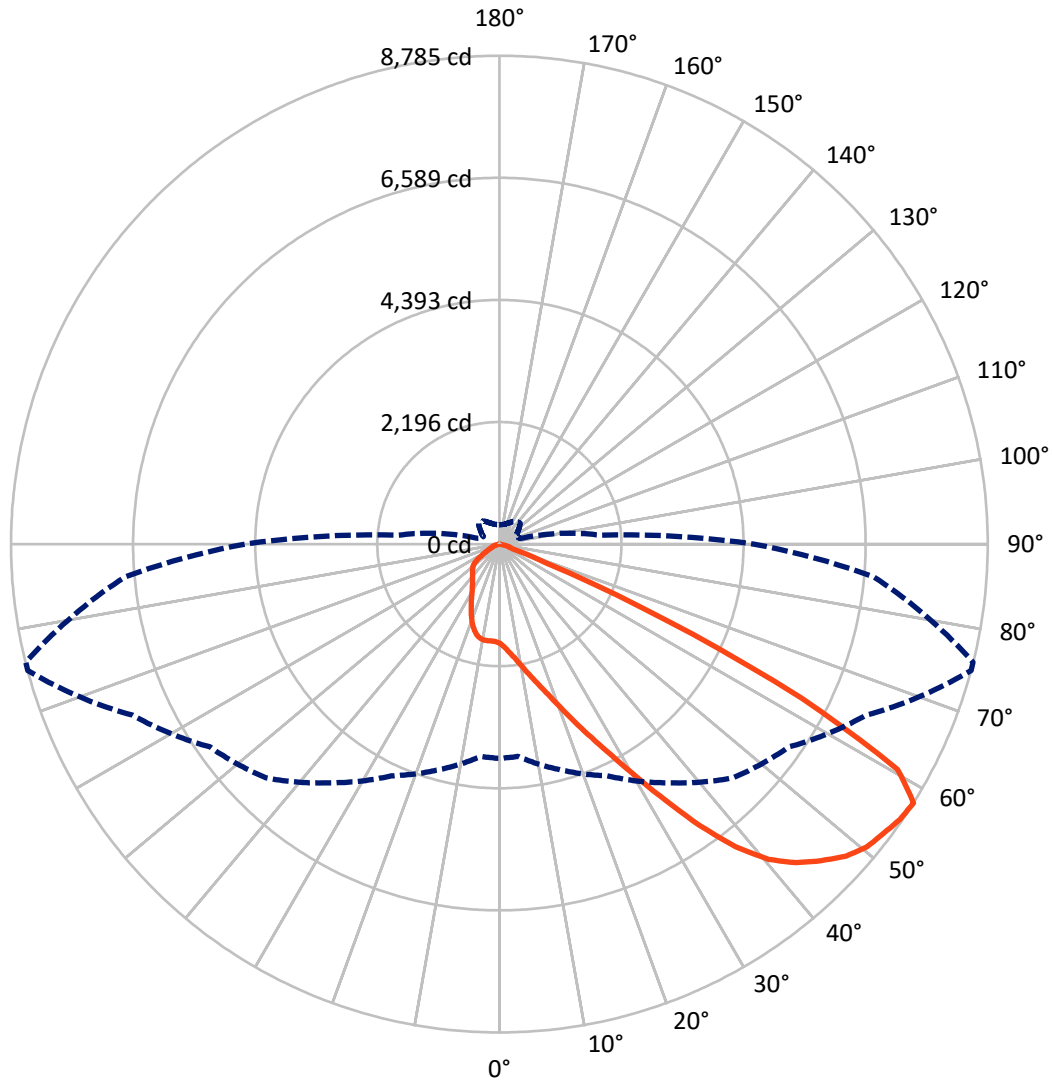
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.2	0.0	1750.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	8964.6	0.0	8964.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	10714.8	0.0	10714.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.7
10°-20°	590.7	5.5
20°-30°	1081.8	10.1
30°-40°	1794.7	16.8
40°-50°	2741.0	25.6
50°-60°	3080.0	28.7
60°-70°	1136.0	10.6
70°-80°	108.6	1.0
80°-90°	0.1	0.0
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°	10714.8	100.0
0°-180°	10714.8	100.0

Coefficient of Utilization



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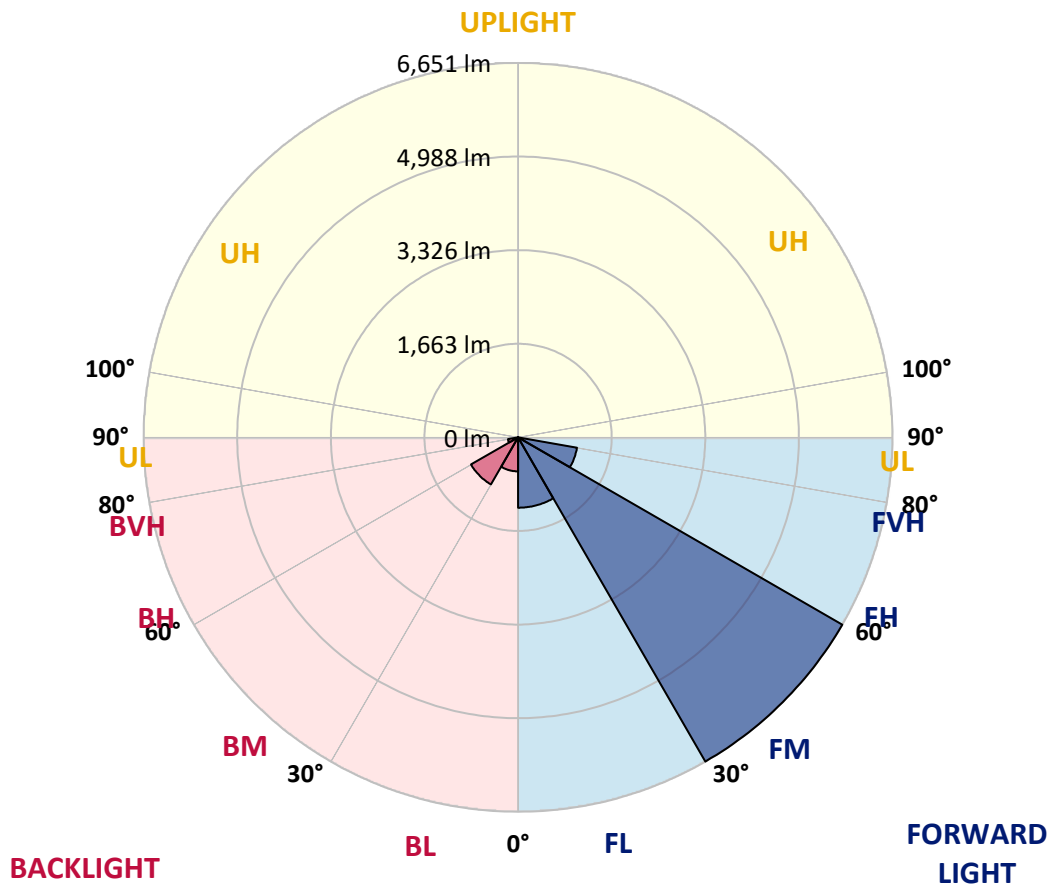
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.4	11.7			
FM (30°-60°)	6651.2	62.1			
FH (60°-80°)	1062.9	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	603.9	5.6	B2/1000		
BM (30°-60°)	964.5	9.0	B1/1000		
BH (60°-80°)	181.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1
2.5°	1996.6	2017.3	2010.8	1997.9	1990.1	1962.9	1946.1	1897.0	1862.1	1858.2	1825.9
5°	2248.7	2244.8	2239.7	2224.2	2211.2	2168.5	2118.1	2035.4	1961.6	1952.6	1884.1
7.5°	2387.1	2389.7	2392.3	2389.7	2380.6	2348.3	2292.7	2195.7	2083.2	2075.4	1966.8
10°	2444.0	2449.2	2462.1	2486.7	2508.6	2506.0	2473.7	2374.2	2235.8	2222.9	2076.7
12.5°	2471.1	2477.6	2498.3	2544.8	2604.3	2650.9	2656.1	2566.8	2414.2	2393.5	2207.3
15°	2508.6	2515.1	2541.0	2601.7	2688.4	2780.2	2839.7	2782.8	2612.1	2590.1	2350.9
17.5°	2525.4	2534.5	2572.0	2652.2	2764.7	2905.6	3040.1	3034.9	2846.1	2829.3	2517.7
20°	2557.8	2564.2	2597.9	2684.5	2820.3	3023.3	3249.6	3331.1	3131.9	3107.3	2719.4
22.5°	2659.9	2662.5	2678.0	2732.3	2859.1	3108.6	3463.0	3676.3	3469.4	3437.1	2945.7
25°	2826.7	2825.4	2831.9	2841.0	2934.1	3195.3	3668.6	4065.5	3856.1	3821.1	3201.7
27.5°	3038.8	3038.8	3054.3	3028.5	3066.0	3302.6	3871.6	4513.0	4306.1	4256.9	3482.3
30°	3288.4	3287.1	3323.3	3281.9	3293.6	3472.0	4090.1	5000.5	4849.2	4788.4	3805.6
32.5°	3627.2	3619.4	3660.8	3603.9	3565.1	3728.0	4356.5	5509.9	5499.6	5406.5	4211.7
35°	4055.2	4042.3	4055.2	3999.6	3929.8	4086.2	4705.6	6018.1	6221.2	6122.9	4695.3
37.5°	4480.6	4522.0	4536.2	4440.5	4383.6	4540.1	5125.9	6473.3	6910.4	6808.2	5198.3
40°	4982.4	4969.4	5018.6	4911.2	4875.0	5048.3	5537.1	6812.1	7456.1	7359.1	5645.7
42.5°	5352.2	5375.5	5436.2	5376.8	5348.3	5511.2	5882.4	7010.0	7835.0	7739.3	5965.1
45°	5795.7	5812.5	5835.8	5786.7	5756.9	5917.3	6131.9	7096.6	8123.3	8019.9	6179.8
47.5°	6275.5	6288.4	6288.4	6187.5	6091.8	6157.8	6298.7	7145.7	8388.4	8288.8	6338.8
50°	6619.4	6625.9	6682.8	6611.7	6403.5	6301.3	6375.0	7193.6	8564.3	8471.2	6390.6
52.5°	6314.3	6306.5	6494.0	6641.4	6697.0	6494.0	6506.9	7263.4	8649.6	8569.4	6431.9
55°	5317.3	5304.3	5568.1	5926.3	6416.4	6676.3	6666.0	7304.8	8744.0	8694.9	6581.9
57.5°	3854.8	3832.8	4200.0	4598.3	5241.0	5945.7	6359.5	7281.5	8785.4	8781.5	6756.5
60°	2317.3	2299.2	2645.7	3064.7	3561.2	4269.9	4956.5	6522.5	8231.9	8239.7	6302.6
62.5°	1426.3	1443.1	1756.0	1969.4	2154.3	2367.7	2764.7	4387.5	6098.3	6148.7	4428.9
65°	959.5	972.4	1262.1	1531.0	1531.0	1251.7	1074.6	2097.4	3253.5	3168.1	2094.8
67.5°	644.0	658.2	887.1	1201.3	1246.6	872.8	435.8	625.9	906.5	879.3	518.5
70°	378.9	394.4	591.0	823.7	907.8	607.8	290.9	265.1	257.3	249.6	201.7
72.5°	169.4	175.9	301.3	419.0	382.8	256.0	205.6	212.1	200.4	196.6	164.2
75°	51.7	54.3	77.6	90.5	91.8	91.8	124.1	166.8	157.8	159.1	126.7
77.5°	12.9	12.9	20.7	19.4	10.3	9.1	23.3	37.5	38.8	34.9	25.9
80°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1
2.5°	1811.6	1778.0	1756.0	1725.0	1703.0	1679.8	1659.1	1642.3	1633.2	1630.6	1631.9
5°	1853.0	1800.0	1748.3	1688.8	1647.4	1608.6	1577.6	1553.0	1541.4	1537.5	1537.5
7.5°	1916.4	1842.7	1750.9	1657.8	1587.9	1527.2	1491.0	1463.8	1453.5	1450.9	1443.1
10°	1999.1	1898.3	1747.0	1602.2	1503.9	1440.5	1414.7	1406.9	1410.8	1412.1	1410.8
12.5°	2098.7	1956.5	1722.4	1520.7	1414.7	1375.9	1378.5	1399.1	1422.4	1434.1	1436.6
15°	2204.8	2009.5	1666.8	1423.7	1338.4	1337.1	1374.6	1422.4	1467.7	1487.1	1492.3
17.5°	2323.7	2052.2	1581.5	1320.3	1272.4	1309.9	1377.2	1450.9	1511.6	1544.0	1550.4
20°	2454.3	2087.1	1472.9	1223.3	1214.2	1281.5	1374.6	1465.1	1540.1	1576.3	1582.8
22.5°	2590.1	2111.7	1347.4	1134.1	1161.2	1249.1	1350.0	1437.9	1509.1	1550.4	1555.6
25°	2745.3	2114.2	1219.4	1059.1	1112.1	1205.2	1290.5	1362.9	1422.4	1458.6	1462.5
27.5°	2881.1	2083.2	1105.6	998.3	1066.8	1150.9	1207.8	1247.9	1289.2	1309.9	1311.2
30°	3037.5	2028.9	998.3	949.1	1020.3	1083.6	1112.1	1121.1	1125.0	1128.9	1123.7
32.5°	3223.7	1962.9	918.1	901.3	967.2	1009.9	1017.7	999.6	977.6	946.6	938.8
35°	3452.6	1903.5	852.2	854.7	909.1	934.9	928.5	889.7	847.0	809.5	803.0
37.5°	3700.9	1853.0	801.7	809.5	845.7	863.8	844.4	801.7	782.3	750.0	751.3
40°	3920.7	1811.6	756.5	764.2	781.0	797.8	766.8	738.4	774.6	772.0	774.6
42.5°	4077.2	1776.7	717.7	713.8	725.4	737.1	713.8	699.6	760.3	743.5	752.6
45°	4169.0	1744.4	685.3	662.1	680.2	700.9	685.3	667.2	687.9	610.3	603.9
47.5°	4231.1	1726.3	656.9	611.6	644.0	680.2	647.8	603.9	574.1	506.9	501.7
50°	4237.5	1717.3	623.3	559.9	601.3	640.1	602.6	541.8	499.1	469.4	465.5
52.5°	4271.1	1735.4	576.7	494.0	539.2	601.3	575.4	514.7	456.5	430.6	425.4
55°	4421.1	1811.6	499.1	403.5	469.4	571.6	553.5	459.1	403.5	387.9	384.1
57.5°	4576.3	1827.2	393.1	319.4	408.6	528.9	505.6	422.8	368.5	350.4	346.6
60°	4184.5	1505.2	294.8	263.8	360.8	488.8	468.1	400.9	337.5	315.5	311.6
62.5°	2749.2	813.4	234.1	223.7	303.9	413.8	426.7	362.1	301.3	278.0	276.7
65°	1267.2	377.6	179.7	177.2	237.9	329.7	367.2	316.8	254.7	234.1	234.1
67.5°	345.3	187.5	140.9	130.6	161.6	221.1	267.7	236.6	181.0	156.5	155.2
70°	172.0	151.3	126.7	112.5	116.4	137.1	157.8	131.9	91.8	75.0	73.7
72.5°	140.9	124.1	107.3	95.7	87.9	84.1	81.5	65.9	42.7	32.3	31.0
75°	104.7	89.2	76.3	62.1	53.0	49.1	44.0	32.3	18.1	10.3	9.1
77.5°	23.3	22.0	20.7	15.5	14.2	11.6	9.1	6.5	2.6	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)