

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: P640284

Luminaire Tested: GWS-SA5D-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-750-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18043.9 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

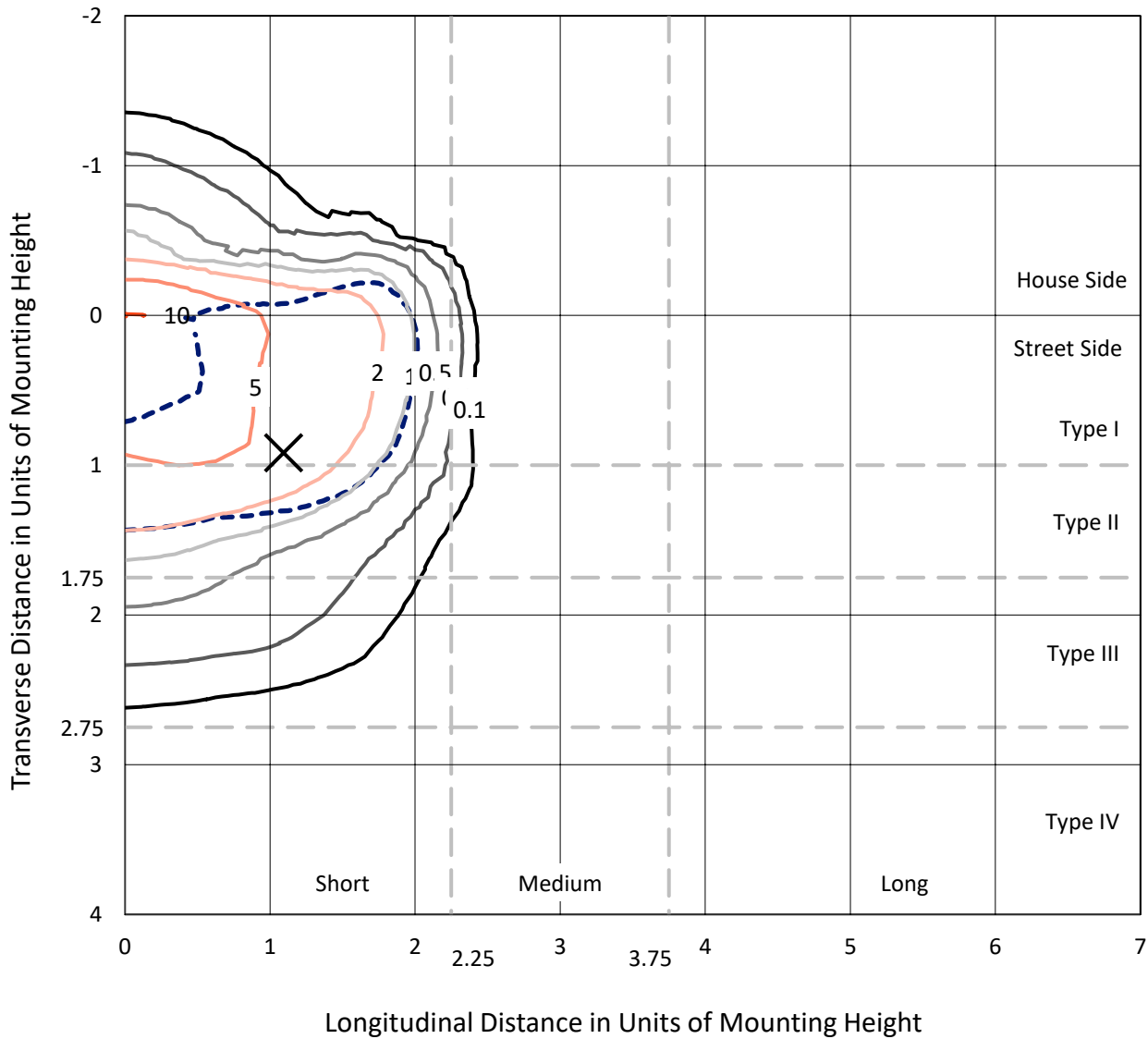
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

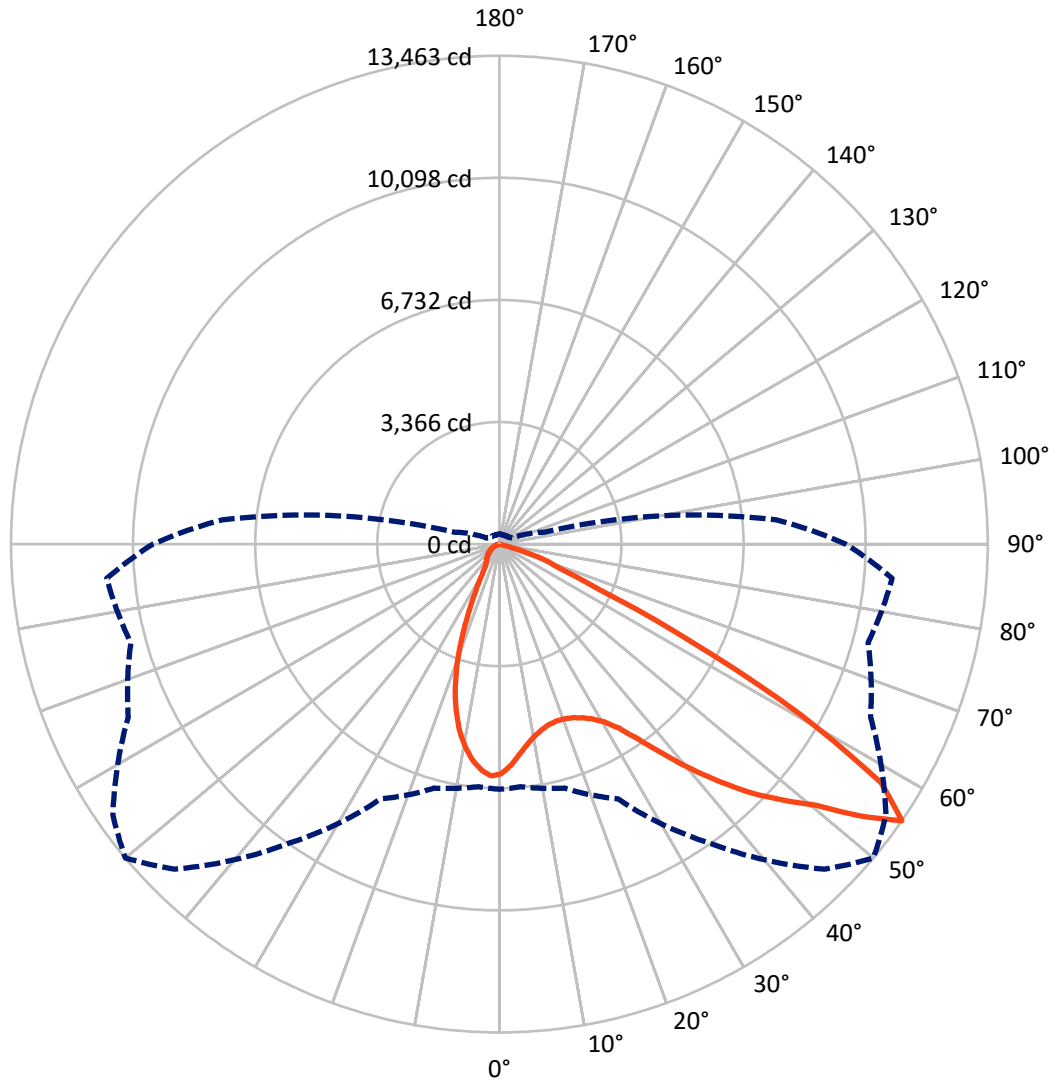
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3555.5	0.0	3555.5
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	14488.4	0.0	14488.4
	% Fixture	80.3	0.0	80.3
Total	Lumens	18043.9	0.0	18043.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.0	3.1
10°-20°	1368.2	7.6
20°-30°	1929.8	10.7
30°-40°	2855.8	15.8
40°-50°	4120.0	22.8
50°-60°	4859.8	26.9
60°-70°	2167.9	12.0
70°-80°	186.4	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°	18043.9	100.0
0°-180°	18043.9	100.0

Coefficient of Utilization



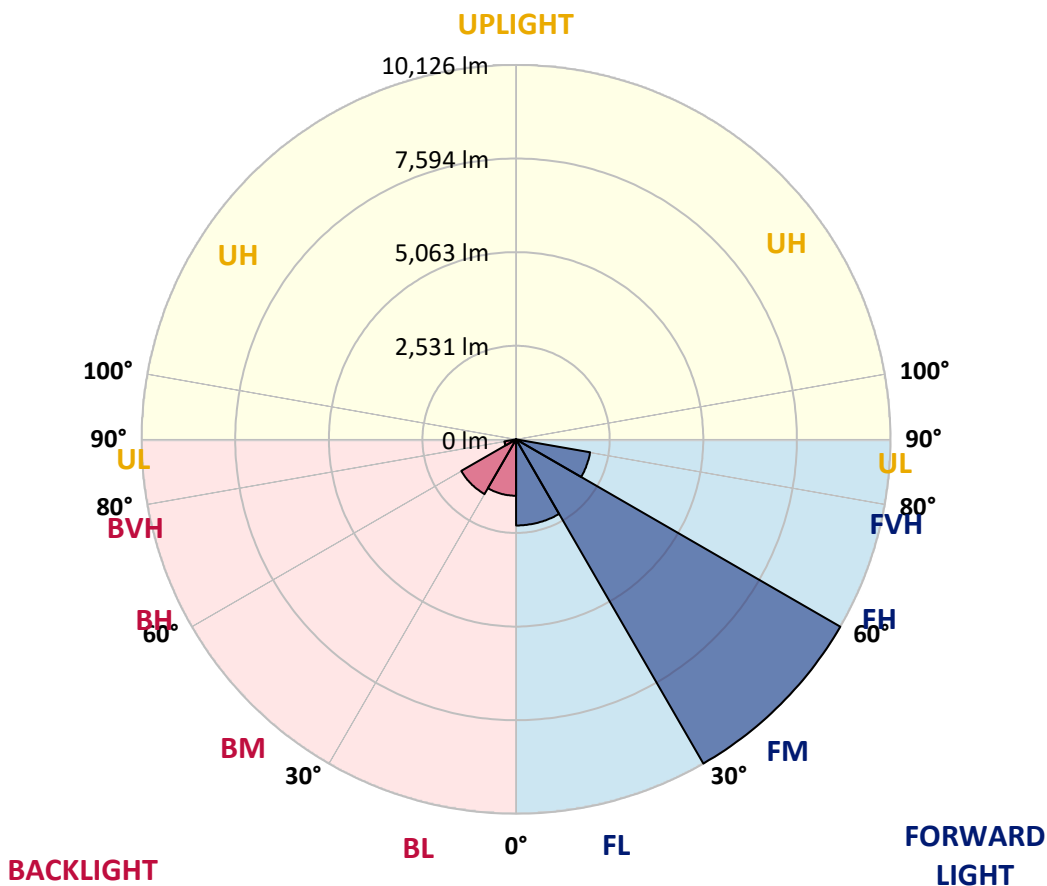
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2329.5	12.9			
FM (30°-60°)	10125.6	56.1			
FH (60°-80°)	2033.2	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1524.5	8.4	B3/2500		
BM (30°-60°)	1709.9	9.5	B2/2500		
BH (60°-80°)	321.0	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8
2.5°	5881.4	5885.8	5888.0	5947.5	5969.5	6057.7	6103.9	6128.1	6192.0	6266.9	6328.6
5°	5487.1	5480.5	5491.5	5566.4	5614.9	5744.9	5815.4	5863.8	6004.8	6181.0	6328.6
7.5°	5143.5	5156.7	5169.9	5251.4	5324.1	5465.1	5566.4	5639.1	5835.2	6097.3	6346.2
10°	4901.2	4901.2	4921.0	5013.5	5099.4	5273.5	5374.8	5467.3	5700.8	6022.4	6366.0
12.5°	4722.8	4725.0	4749.2	4854.9	4954.1	5134.7	5240.4	5330.7	5588.5	5947.5	6370.5
15°	4639.1	4632.5	4652.3	4764.6	4874.8	5044.4	5154.5	5242.6	5509.2	5905.7	6392.5
17.5°	4617.0	4612.6	4628.1	4738.2	4850.5	5015.7	5123.7	5211.8	5498.2	5918.9	6458.6
20°	4680.9	4672.1	4665.5	4760.2	4866.0	5029.0	5141.3	5240.4	5551.0	5991.6	6559.9
22.5°	4832.9	4832.9	4817.5	4863.7	4934.2	5081.8	5198.6	5328.5	5689.8	6137.0	6709.7
25°	5112.7	5090.6	5062.0	5081.8	5073.0	5165.5	5304.3	5484.9	5951.9	6377.1	6892.5
27.5°	5432.1	5451.9	5403.4	5405.6	5328.5	5295.5	5456.3	5729.4	6341.8	6716.3	7163.5
30°	5866.0	5850.6	5852.8	5846.2	5667.8	5511.4	5685.4	6048.8	6833.0	7233.9	7515.9
32.5°	6205.2	6227.3	6300.0	6341.8	6108.3	5857.2	6042.2	6482.8	7392.5	7824.3	7947.6
35°	6564.3	6603.9	6751.5	6888.1	6692.1	6403.5	6601.7	7057.7	7919.0	8408.0	8443.3
37.5°	6943.2	7022.5	7198.7	7438.8	7408.0	7152.4	7333.1	7734.0	8333.1	8760.5	8853.0
40°	7377.1	7454.2	7742.8	8088.6	8161.3	8104.0	8163.5	8397.0	8606.3	8775.9	9029.2
42.5°	7852.9	7958.7	8324.3	8786.9	9060.1	9110.7	8971.9	8947.7	8725.2	8599.7	8991.8
45°	8414.6	8538.0	8952.1	9551.3	9985.2	10053.5	9813.4	9502.8	8800.1	8469.7	8879.4
47.5°	9044.6	9161.4	9573.3	10293.6	10939.0	10965.5	10546.9	10046.9	9022.6	8619.5	8965.3
50°	9256.1	9328.8	9685.6	10531.5	11721.0	11923.7	11317.9	10659.3	9469.8	9060.1	9383.9
52.5°	8529.2	8557.8	8868.4	9723.1	11562.4	12864.3	12443.5	11573.4	10265.0	9731.9	10029.3
55°	6758.1	6711.9	6963.0	7747.2	10049.1	12672.6	13463.4	13009.6	11289.3	10520.5	10868.5
57.5°	4727.2	4672.1	4614.8	5145.7	7498.3	10743.0	12406.1	13210.1	12265.1	11302.5	11773.9
60°	3885.7	3832.8	3555.3	3310.8	4533.3	7714.2	9529.2	11042.6	12185.8	11262.8	11745.2
62.5°	3357.0	3326.2	3213.9	2881.2	2667.6	4403.4	5967.3	7416.8	9350.8	8844.2	8870.6
65°	2636.7	2627.9	2705.0	2740.3	2359.2	2436.3	3044.2	3854.9	5055.4	4766.8	4520.1
67.5°	1801.9	1782.1	1927.4	2370.2	2268.9	1923.0	1782.1	1797.5	2187.4	1337.1	1061.7
70°	1145.4	1099.2	1101.4	1469.3	1845.9	1517.7	1374.5	1209.3	1088.2	198.3	224.7
72.5°	733.5	704.9	605.8	663.0	854.7	740.1	746.7	643.2	429.5	105.7	123.4
75°	308.4	284.2	218.1	174.0	171.8	107.9	94.7	88.1	59.5	59.5	63.9
77.5°	2.2	0.0	0.0	2.2	4.4	2.2	2.2	4.4	8.8	13.2	15.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8	6330.8
2.5°	6366.0	6313.2	6372.7	6394.7	6392.5	6394.7	6330.8	6286.7	6284.5	6229.5	6203.0
5°	6390.3	6348.4	6392.5	6363.8	6295.6	6209.7	6095.1	5996.0	5951.9	5888.0	5857.2
7.5°	6436.5	6392.5	6385.9	6271.3	6101.7	5921.1	5718.4	5537.8	5440.9	5324.1	5330.7
10°	6469.6	6418.9	6333.0	6099.5	5817.6	5529.0	5227.2	4958.5	4788.9	4632.5	4606.0
12.5°	6482.8	6407.9	6207.4	5855.0	5458.5	5081.8	4639.1	4255.8	3991.4	3786.6	3758.0
15°	6507.0	6385.9	6046.6	5559.8	5015.7	4482.7	3918.8	3394.5	3044.2	2808.6	2828.4
17.5°	6544.5	6361.6	5866.0	5229.4	4539.9	3786.6	3024.4	2423.1	2101.5	1964.9	1967.1
20°	6597.3	6333.0	5667.8	4866.0	3969.4	3000.2	2114.7	1660.9	1570.6	1566.2	1559.6
22.5°	6667.8	6304.4	5456.3	4467.2	3293.2	2101.5	1407.6	1266.6	1304.0	1376.7	1390.0
25°	6751.5	6269.1	5220.6	4017.9	2555.2	1378.9	1055.1	1033.1	1123.4	1220.3	1242.4
27.5°	6881.5	6251.5	4951.9	3506.8	1793.1	989.1	863.5	876.7	958.2	1039.7	1059.5
30°	7101.8	6284.5	4658.9	2934.1	1152.1	788.6	748.9	768.8	812.8	854.7	872.3
32.5°	7401.4	6381.5	4374.7	2308.5	821.6	685.1	676.3	687.3	704.9	729.1	735.7
35°	7751.6	6548.9	4081.8	1652.1	678.5	625.6	616.8	616.8	625.6	630.0	632.2
37.5°	8040.2	6725.1	3806.4	1099.2	608.0	579.3	566.1	559.5	557.3	561.7	563.9
40°	8165.7	6797.8	3506.8	799.6	557.3	537.5	517.7	497.8	497.8	513.2	515.5
42.5°	8077.6	6716.3	3161.0	660.8	522.1	493.4	462.6	445.0	453.8	469.2	473.6
45°	7890.4	6515.8	2779.9	583.7	486.8	449.4	414.1	403.1	411.9	431.7	436.2
47.5°	7859.5	6383.7	2323.9	533.1	449.4	411.9	374.5	363.5	374.5	389.9	394.3
50°	8165.7	6498.2	1817.3	489.0	414.1	372.3	341.4	330.4	337.0	345.8	350.2
52.5°	8725.2	6923.4	1467.1	447.2	372.3	332.6	312.8	299.6	299.6	308.4	310.6
55°	9551.3	7665.7	1266.6	398.7	323.8	301.8	284.2	270.9	270.9	275.3	277.6
57.5°	10502.9	8564.4	1312.9	334.8	284.2	273.1	257.7	246.7	251.1	251.1	251.1
60°	10370.7	8498.3	1405.4	282.0	251.1	246.7	233.5	229.1	240.1	231.3	226.9
62.5°	7639.3	5870.4	735.7	231.3	215.9	211.5	202.7	211.5	226.9	202.7	193.8
65°	3709.5	2841.6	295.2	189.4	182.8	178.4	174.0	187.2	196.0	158.6	149.8
67.5°	872.3	709.3	191.6	160.8	152.0	143.2	147.6	149.8	143.2	107.9	103.5
70°	226.9	222.5	149.8	134.4	121.2	112.3	112.3	110.1	94.7	68.3	63.9
72.5°	123.4	121.2	107.9	101.3	83.7	74.9	77.1	68.3	52.9	39.7	37.4
75°	61.7	66.1	61.7	57.3	46.3	41.9	41.9	37.4	26.4	15.4	15.4
77.5°	13.2	15.4	15.4	13.2	11.0	8.8	8.8	11.0	4.4	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	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)