

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: P642479

Luminaire Tested: GWS-SA6D-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642479
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-SA6D-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22127.3 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

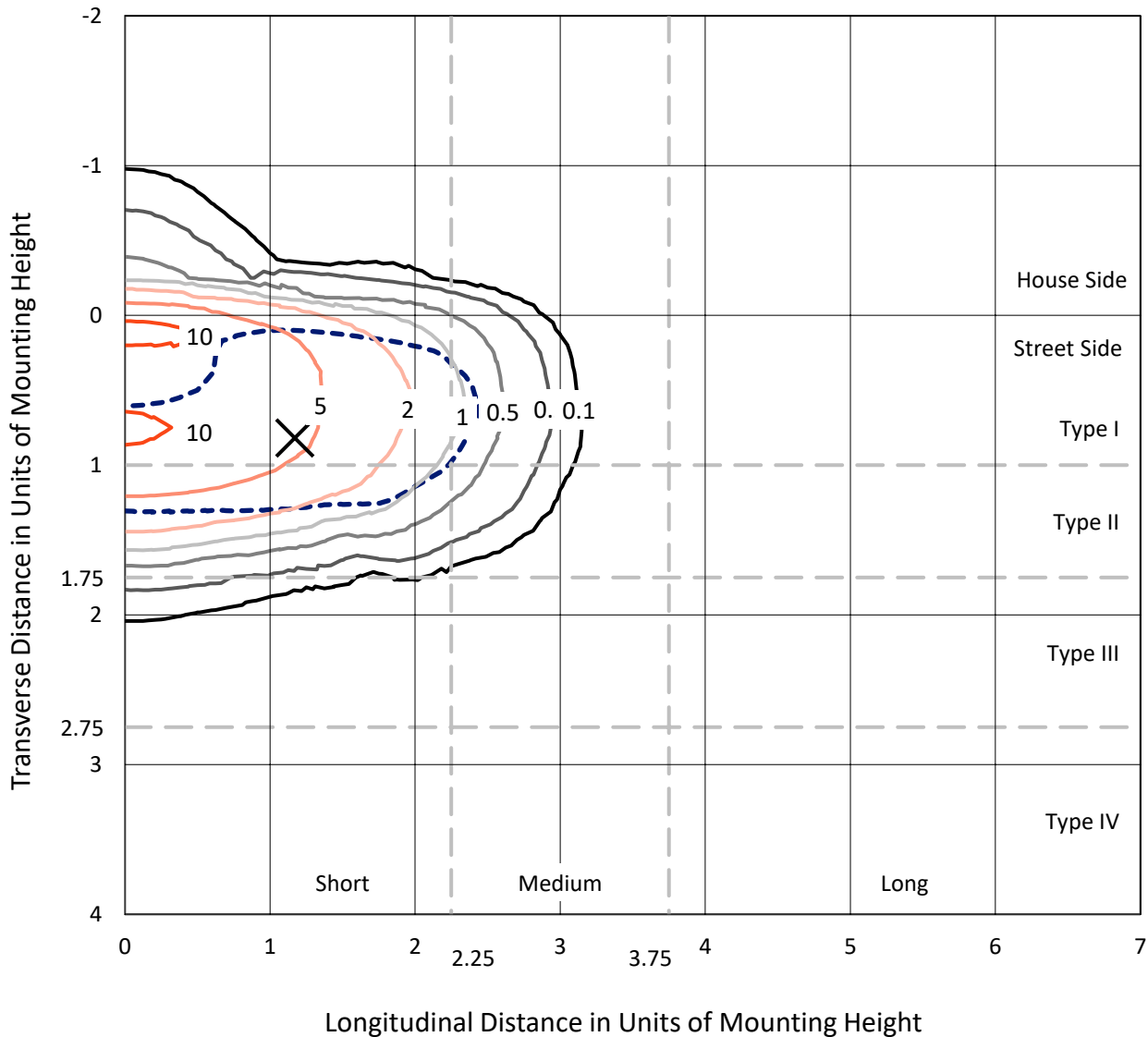
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

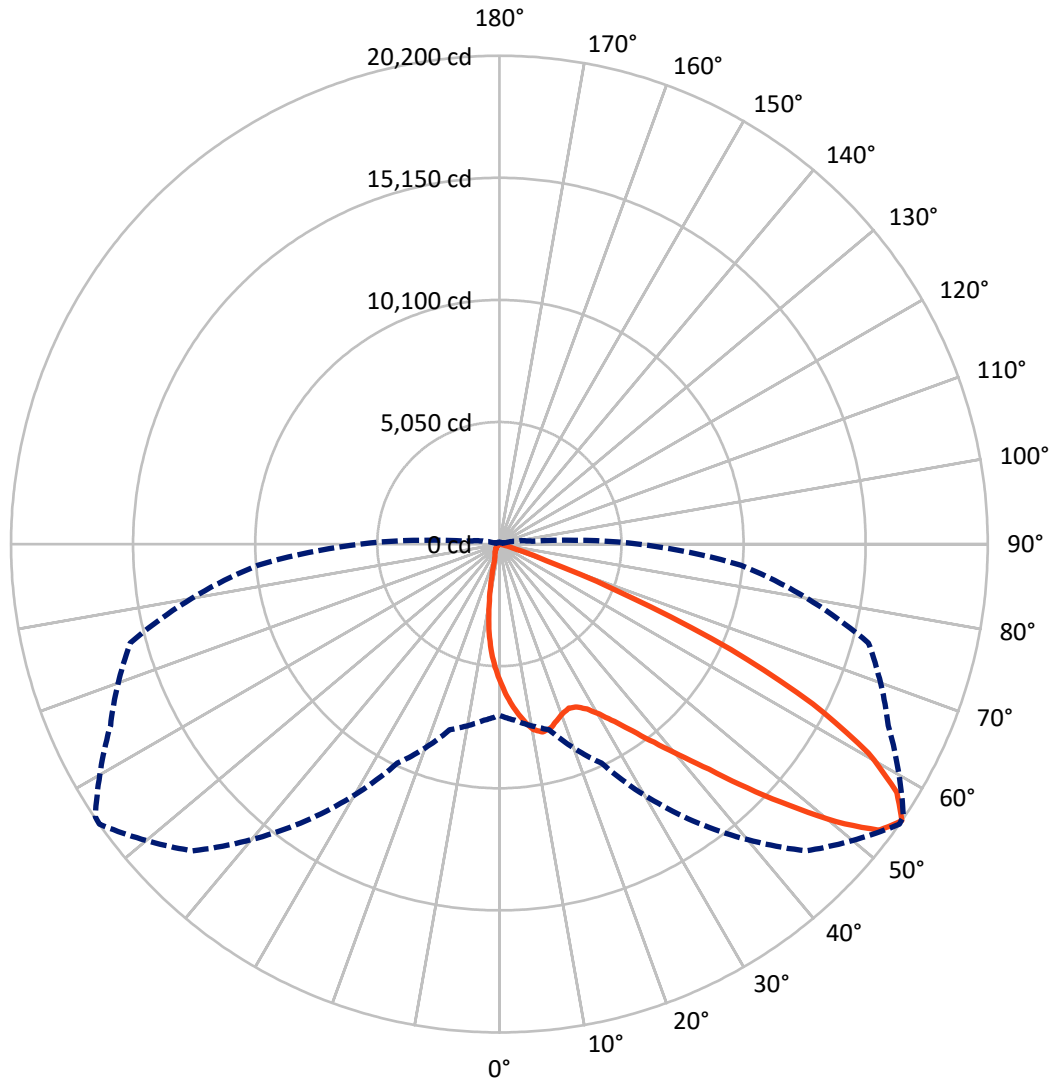
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	1365.4	0.0	1365.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	20762.0	0.0	20762.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	22127.3	0.0	22127.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.2	2.3
10°-20°	1218.0	5.5
20°-30°	2028.4	9.2
30°-40°	3456.5	15.6
40°-50°	5642.2	25.5
50°-60°	5907.1	26.7
60°-70°	2979.4	13.5
70°-80°	376.3	1.7
80°-90°	14.3	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°	22127.3	100.0
0°-180°	22127.3	100.0

Coefficient of Utilization



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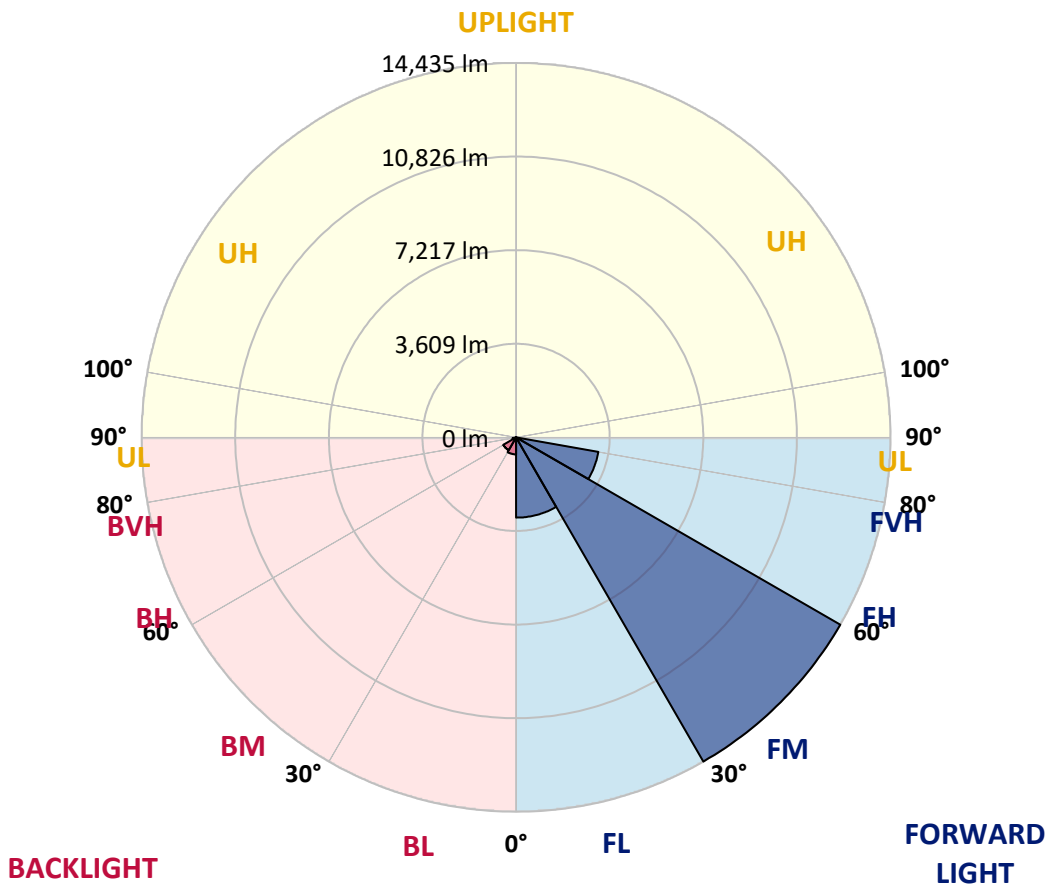
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3095.3	14.0			
FM (30°-60°)	14434.9	65.2			
FH (60°-80°)	3218.8	14.5			G2/5000
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	656.2	3.0	B2/1000		
BM (30°-60°)	570.9	2.6	B1/1000		
BH (60°-80°)	137.0	0.6	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4
2.5°	6664.1	6631.9	6681.1	6624.4	6527.9	6446.6	6340.6	6302.8	6132.5	5971.8	5816.7
5°	7473.7	7483.1	7468.0	7388.6	7252.4	7101.0	6887.3	6840.0	6543.0	6236.6	5905.6
7.5°	7674.2	7668.5	7700.7	7730.9	7708.2	7632.6	7399.9	7352.6	6983.8	6524.1	6041.8
10°	7055.6	7059.4	7125.6	7329.9	7583.4	7846.3	7810.4	7783.9	7422.6	6849.5	6193.1
12.5°	6181.7	6215.8	6285.8	6577.1	7006.5	7604.2	7975.0	8001.4	7825.5	7207.0	6370.9
15°	5803.4	5811.0	5867.7	6043.6	6363.3	7101.0	7905.0	7978.7	8162.2	7566.4	6563.8
17.5°	5794.0	5803.4	5828.0	5905.6	6113.6	6705.7	7679.9	7808.5	8415.7	7952.3	6794.6
20°	6149.6	6143.9	6126.9	6085.3	6176.1	6575.2	7471.8	7613.7	8553.8	8328.7	7027.3
22.5°	6794.6	6787.0	6711.4	6539.2	6465.5	6694.4	7369.7	7498.3	8637.0	8663.5	7218.3
25°	7538.0	7591.0	7449.1	7188.1	7006.5	6998.9	7460.4	7551.2	8708.9	8960.5	7348.8
27.5°	8353.3	8370.3	8249.2	7956.0	7693.1	7486.9	7723.4	7791.5	8788.3	9225.3	7422.6
30°	9248.0	9242.3	9104.2	8763.8	8444.1	8147.1	8166.0	8192.5	8973.7	9528.0	7504.0
32.5°	10365.9	10390.5	10144.6	9681.2	9297.2	8886.7	8744.8	8748.6	9308.5	9917.6	7626.9
35°	11884.9	11824.4	11499.0	10838.8	10184.3	9741.7	9499.6	9478.8	9824.9	10441.6	7840.7
37.5°	13332.0	13337.6	12997.1	12270.8	11444.1	10746.1	10403.8	10347.0	10551.3	11168.0	8196.3
40°	14336.4	14355.3	14213.4	13833.2	12957.4	11970.0	11466.8	11408.2	11493.3	12087.3	8661.6
42.5°	14867.9	14920.9	14960.6	15049.5	14385.6	13498.4	12724.8	12719.1	12630.2	13135.2	9200.7
45°	14888.7	14968.2	15210.3	15817.5	15893.2	15242.5	14400.7	14274.0	13931.6	14256.9	9683.1
47.5°	14065.9	14249.4	14763.9	15966.9	16761.4	16977.1	16142.9	16065.3	15104.4	15144.1	10044.4
50°	12147.8	12338.9	13286.6	15200.9	16980.8	18354.1	18055.3	17894.5	16084.2	15730.5	10218.4
52.5°	10180.6	10354.6	10997.7	13377.4	16071.0	18787.3	19666.9	19475.9	16963.8	15934.8	10146.5
55°	7084.0	7316.7	7944.7	9999.0	13975.1	17943.7	20200.3	20160.6	17748.8	15806.2	10034.9
57.5°	3473.0	3703.7	4329.9	6164.7	10352.7	15666.2	19385.1	19595.0	18217.9	15668.1	9944.1
60°	1450.9	1545.4	1761.1	2705.0	5792.1	11839.5	17544.5	17835.8	17930.4	15480.8	9934.7
62.5°	841.8	856.9	879.6	1121.7	2252.9	6787.0	14553.9	14968.2	16419.0	15233.0	9785.2
65°	635.6	641.3	631.8	688.5	930.7	2574.5	10515.4	11079.1	13704.6	14264.5	9195.0
67.5°	522.1	522.1	497.5	508.8	584.5	964.7	5805.3	6592.2	10140.8	11724.1	7592.9
70°	416.2	425.6	414.3	399.1	418.0	533.4	2065.6	2561.2	5905.6	6923.2	4428.2
72.5°	315.9	315.9	334.8	323.5	310.2	334.8	720.7	809.6	2370.2	2886.6	1598.4
75°	244.0	251.6	264.8	253.5	234.6	198.6	346.2	367.0	715.0	671.5	357.5
77.5°	124.8	126.7	168.4	185.4	174.0	121.1	151.3	166.5	232.7	208.1	132.4
80°	75.7	79.4	94.6	145.7	115.4	64.3	62.4	66.2	109.7	94.6	54.9
82.5°	32.2	34.0	53.0	53.0	47.3	24.6	24.6	24.6	53.0	49.2	22.7
85°	0.0	0.0	9.5	7.6	7.6	9.5	9.5	9.5	13.2	18.9	11.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.7	5.7
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°	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4
2.5°	5716.4	5595.3	5432.7	5285.1	5086.5	4974.9	4819.8	4693.0	4585.2	4551.2	4536.0
5°	5718.3	5510.2	5162.2	4814.1	4386.6	4049.9	3703.7	3429.5	3204.4	3132.5	3113.6
7.5°	5756.1	5449.7	4886.0	4254.2	3539.2	2949.0	2421.2	1948.3	1728.9	1655.1	1640.0
10°	5807.2	5398.6	4566.3	3582.7	2555.5	1797.0	1273.0	970.4	826.6	747.2	758.5
12.5°	5873.4	5357.0	4212.6	2856.3	1691.1	987.4	699.9	586.4	556.1	541.0	533.4
15°	5962.3	5307.8	3773.7	2135.6	1036.6	635.6	539.1	508.8	497.5	489.9	488.0
17.5°	6053.1	5251.1	3327.3	1501.9	688.5	527.8	484.2	469.1	461.5	455.9	454.0
20°	6149.6	5154.6	2803.3	1034.7	542.9	474.8	446.4	429.4	419.9	410.5	408.6
22.5°	6191.2	4999.5	2302.1	724.5	482.4	437.0	401.0	380.2	368.9	361.3	361.3
25°	6151.5	4747.9	1783.8	550.5	438.8	395.3	359.4	336.7	327.2	319.7	319.7
27.5°	6045.5	4424.4	1301.4	455.9	391.6	351.8	317.8	297.0	289.4	285.6	285.6
30°	5928.3	4015.9	917.4	391.6	338.6	306.4	278.1	264.8	262.9	259.1	259.1
32.5°	5828.0	3633.8	631.8	344.3	298.9	266.7	247.8	242.1	244.0	240.2	242.1
35°	5773.1	3259.2	469.1	306.4	266.7	236.4	227.0	227.0	227.0	225.1	225.1
37.5°	5795.8	2890.4	382.1	280.0	238.3	215.6	206.2	210.0	213.8	213.8	213.8
40°	5909.3	2563.1	338.6	255.4	213.8	196.7	189.2	194.8	200.5	204.3	204.3
42.5°	6053.1	2298.3	306.4	234.6	196.7	177.8	174.0	179.7	185.4	189.2	189.2
45°	6143.9	2031.6	274.3	208.1	179.7	157.0	157.0	164.6	162.7	164.6	164.6
47.5°	6185.5	1819.7	242.1	179.7	153.2	136.2	138.1	141.9	138.1	141.9	141.9
50°	6083.4	1606.0	213.8	149.4	126.7	119.2	123.0	121.1	121.1	128.6	128.6
52.5°	5896.1	1447.1	189.2	126.7	107.8	105.9	109.7	102.1	104.0	104.0	102.1
55°	5758.0	1356.3	168.4	109.7	92.7	94.6	92.7	79.4	71.9	64.3	62.4
57.5°	5689.9	1320.3	153.2	98.4	83.2	83.2	75.7	54.9	41.6	32.2	28.4
60°	5674.8	1276.8	138.1	85.1	73.8	70.0	54.9	32.2	20.8	15.1	13.2
62.5°	5531.0	1170.9	124.8	68.1	64.3	56.7	34.0	18.9	11.3	7.6	5.7
65°	5060.0	962.8	111.6	53.0	49.2	41.6	20.8	11.3	5.7	1.9	0.0
67.5°	4025.3	682.9	98.4	39.7	34.0	26.5	13.2	7.6	1.9	0.0	0.0
70°	2321.0	368.9	81.3	28.4	22.7	17.0	9.5	3.8	0.0	0.0	0.0
72.5°	775.6	172.1	62.4	18.9	17.0	13.2	5.7	1.9	0.0	0.0	0.0
75°	170.2	102.1	41.6	13.2	11.3	9.5	3.8	0.0	0.0	0.0	0.0
77.5°	64.3	71.9	20.8	9.5	7.6	5.7	1.9	0.0	0.0	0.0	0.0
80°	24.6	47.3	9.5	5.7	5.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	18.9	5.7	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.6	9.5	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	1.9	1.9	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)