

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: P641164

Luminaire Tested: GWS-SA5F-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641164
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-SA5F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24172.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

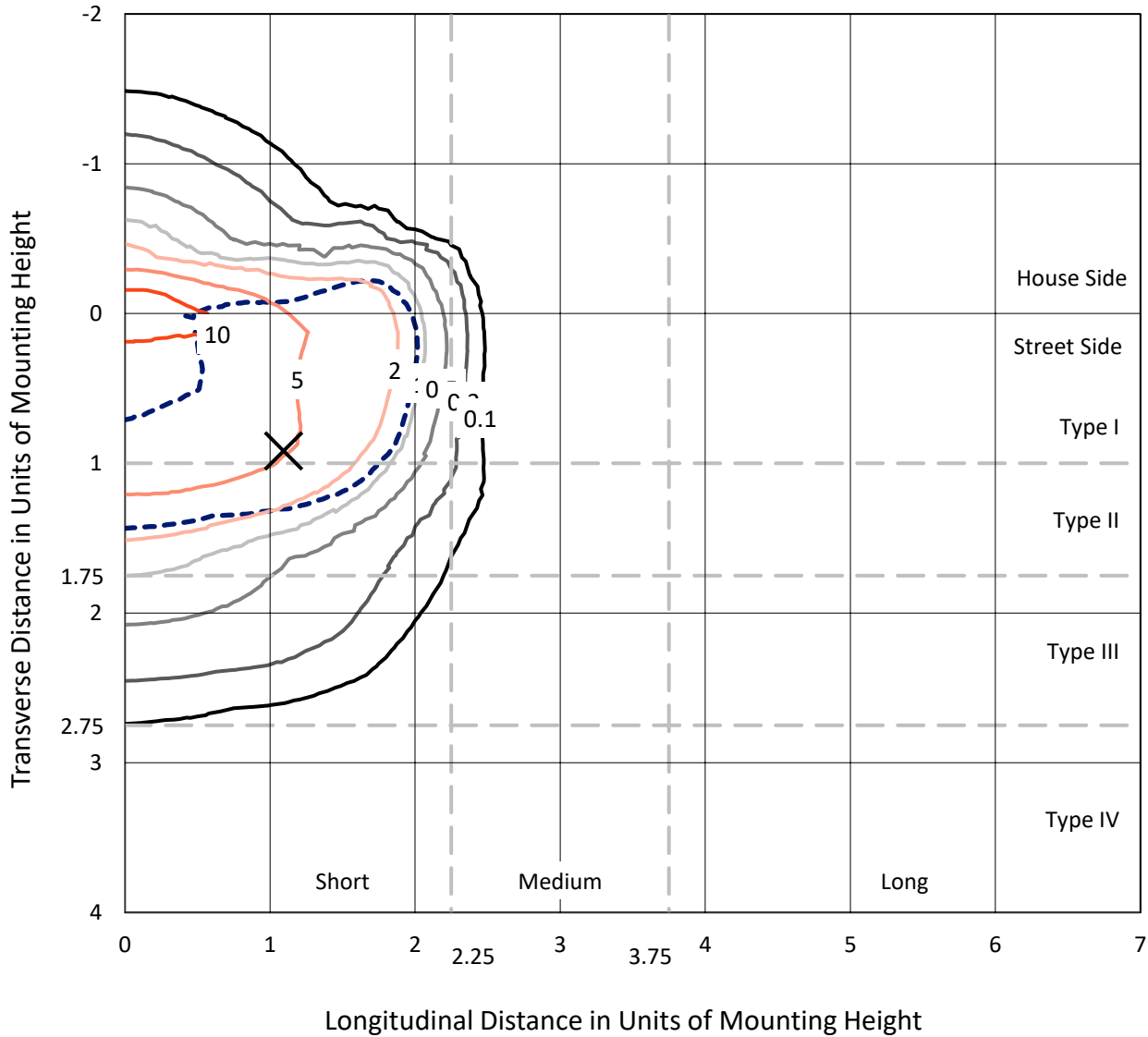
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

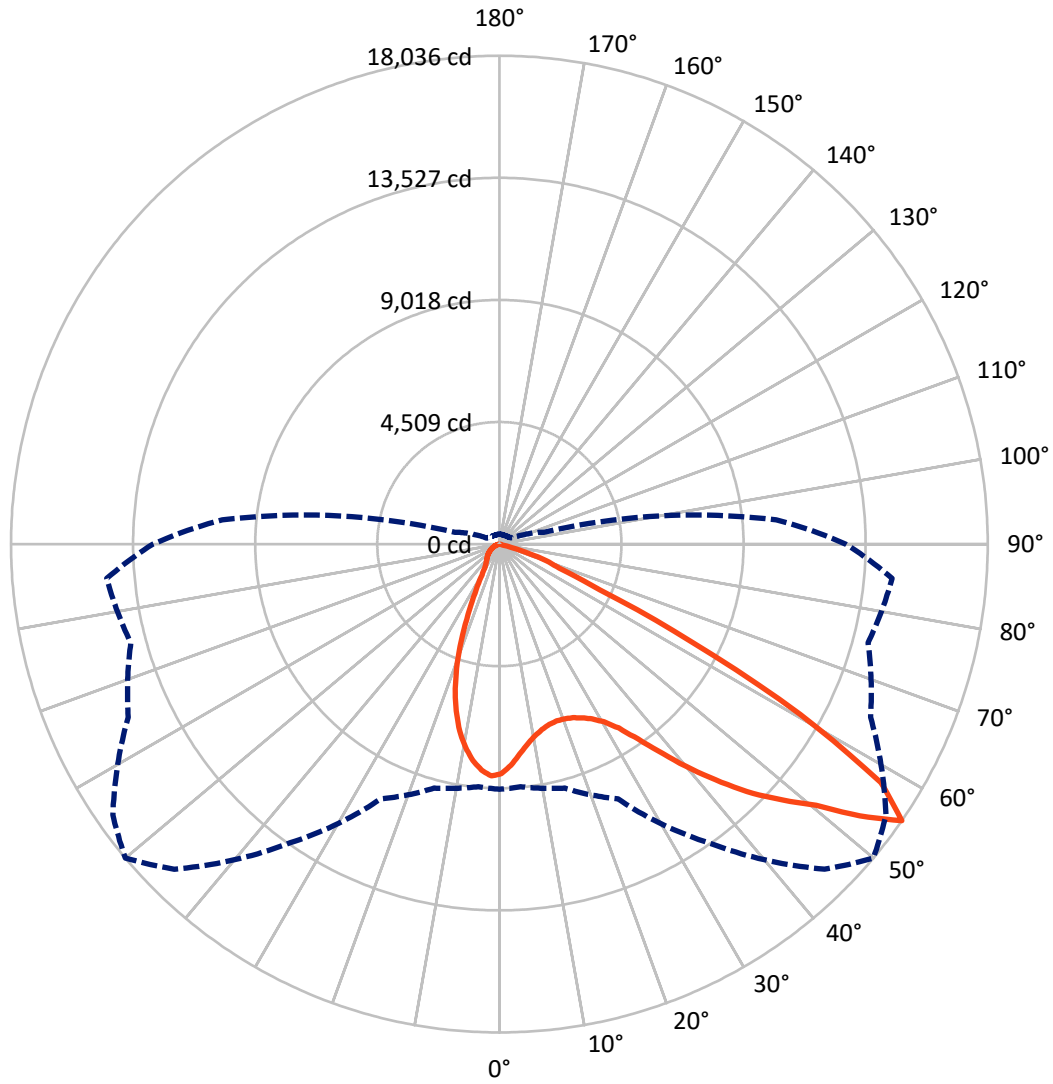
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	4763.1	0.0	4763.1
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	19409.3	0.0	19409.3
	% Fixture	80.3	0.0	80.3
Total	Lumens	24172.4	0.0	24172.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.8	3.1
10°-20°	1832.9	7.6
20°-30°	2585.3	10.7
30°-40°	3825.7	15.8
40°-50°	5519.3	22.8
50°-60°	6510.4	26.9
60°-70°	2904.2	12.0
70°-80°	249.7	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°	24172.4	100.0
0°-180°	24172.4	100.0

Coefficient of Utilization



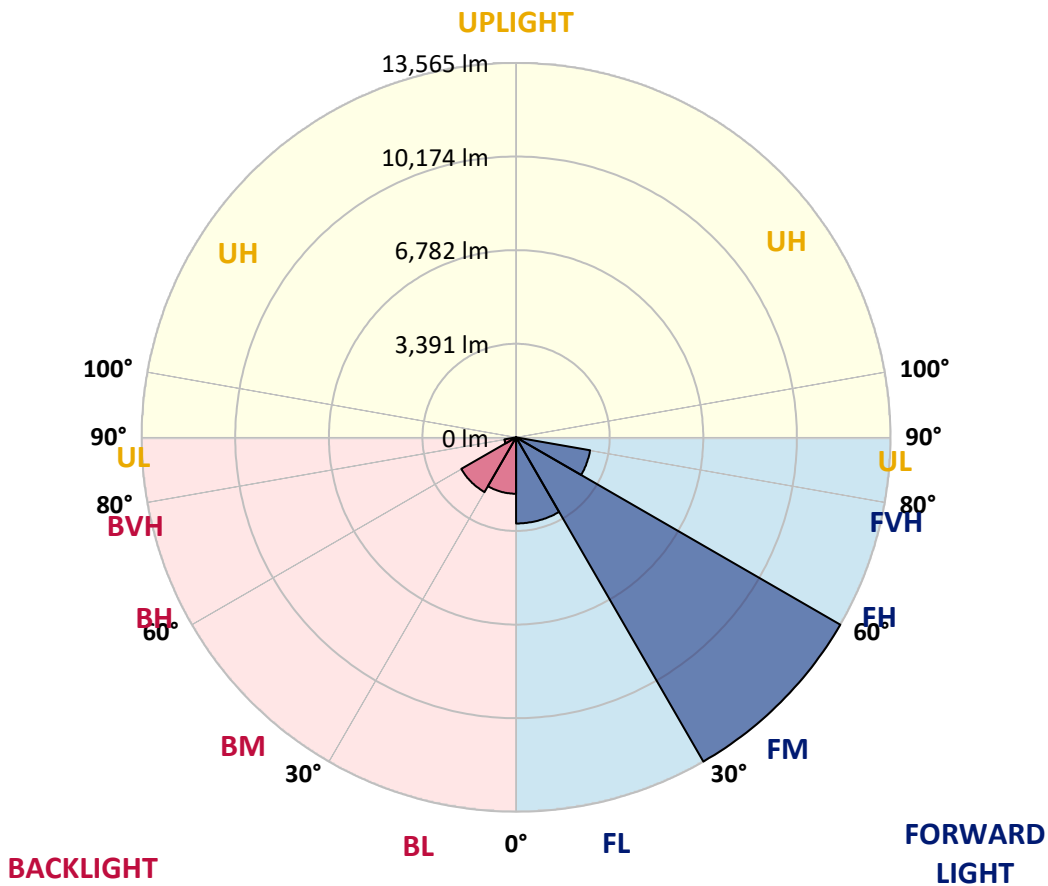
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3120.7	12.9			
FM (30°-60°)	13564.8	56.1			
FH (60°-80°)	2723.8	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2042.2	8.4	B3/2500		
BM (30°-60°)	2290.7	9.5	B2/2500		
BH (60°-80°)	430.1	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°	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0
2.5°	7879.0	7884.9	7887.9	7967.6	7997.1	8115.1	8177.1	8209.5	8295.1	8395.4	8478.1
5°	7350.8	7342.0	7356.7	7457.0	7522.0	7696.1	7790.5	7855.4	8044.3	8280.4	8478.1
7.5°	6890.5	6908.2	6925.9	7035.1	7132.4	7321.3	7457.0	7554.4	7817.1	8168.2	8501.7
10°	6565.9	6565.9	6592.4	6716.4	6831.4	7064.6	7200.3	7324.3	7637.1	8067.9	8528.2
12.5°	6326.8	6329.8	6362.2	6503.9	6636.7	6878.7	7020.3	7141.3	7486.6	7967.6	8534.1
15°	6214.7	6205.8	6232.4	6382.9	6530.4	6757.7	6905.2	7023.3	7380.3	7911.5	8563.6
17.5°	6185.2	6179.3	6199.9	6347.5	6498.0	6719.3	6863.9	6981.9	7365.6	7929.2	8652.2
20°	6270.8	6259.0	6250.1	6377.0	6518.6	6737.0	6887.5	7020.3	7436.4	8026.6	8787.9
22.5°	6474.4	6474.4	6453.7	6515.7	6610.1	6807.8	6964.2	7138.3	7622.3	8221.3	8988.6
25°	6849.1	6819.6	6781.3	6807.8	6796.0	6920.0	7105.9	7347.9	7973.5	8543.0	9233.5
27.5°	7277.0	7303.6	7238.7	7241.6	7138.3	7094.1	7309.5	7675.4	8495.8	8997.4	9596.5
30°	7858.4	7837.7	7840.7	7831.8	7592.8	7383.3	7616.4	8103.3	9153.8	9690.9	10068.6
32.5°	8312.8	8342.3	8439.7	8495.8	8183.0	7846.6	8094.4	8684.6	9903.4	10481.8	10647.0
35°	8793.8	8846.9	9044.7	9227.6	8965.0	8578.4	8844.0	9454.8	10608.7	11263.8	11311.0
37.5°	9301.4	9407.6	9643.7	9965.3	9924.0	9581.7	9823.7	10360.8	11163.4	11735.9	11859.9
40°	9882.7	9986.0	10372.6	10835.9	10933.3	10856.5	10936.2	11249.0	11529.4	11756.6	12095.9
42.5°	10520.1	10661.8	11151.6	11771.3	12137.2	12205.1	12019.2	11986.7	11688.7	11520.5	12045.8
45°	11272.6	11437.9	11992.6	12795.3	13376.6	13468.1	13146.5	12730.4	11789.0	11346.4	11895.3
47.5°	12116.6	12273.0	12824.8	13789.8	14654.4	14689.8	14129.1	13459.3	12087.1	11547.1	12010.4
50°	12399.9	12497.3	12975.3	14108.5	15702.0	15973.5	15162.0	14279.6	12686.1	12137.2	12571.0
52.5°	11426.1	11464.4	11880.5	13025.5	15489.5	17233.5	16669.9	15504.3	13751.4	13037.3	13435.7
55°	9053.5	8991.5	9327.9	10378.5	13462.2	16976.8	18036.2	17428.3	15123.6	14093.7	14560.0
57.5°	6332.7	6259.0	6182.2	6893.4	10045.0	14391.8	16619.7	17696.8	16430.9	15141.3	15772.8
60°	5205.5	5134.6	4762.8	4435.3	6073.0	10334.2	12765.8	14793.1	16324.6	15088.2	15734.4
62.5°	4497.2	4455.9	4305.4	3859.8	3573.6	5898.9	7994.1	9935.8	12526.8	11848.1	11883.5
65°	3532.3	3520.5	3623.8	3671.0	3160.5	3263.7	4078.2	5164.2	6772.4	6385.8	6055.3
67.5°	2413.9	2387.3	2582.1	3175.2	3039.5	2576.2	2387.3	2408.0	2930.3	1791.2	1422.4
70°	1534.5	1472.5	1475.5	1968.3	2472.9	2033.2	1841.4	1620.1	1457.8	265.6	301.0
72.5°	982.7	944.3	811.5	888.2	1145.0	991.5	1000.4	861.7	575.4	141.6	165.3
75°	413.1	380.7	292.1	233.1	230.2	144.6	126.9	118.0	79.7	79.7	85.6
77.5°	3.0	0.0	0.0	3.0	5.9	3.0	3.0	5.9	11.8	17.7	20.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0
2.5°	8528.2	8457.4	8537.1	8566.6	8563.6	8566.6	8481.0	8422.0	8419.1	8345.3	8309.9
5°	8560.7	8504.6	8563.6	8525.3	8433.8	8318.7	8165.3	8032.5	7973.5	7887.9	7846.6
7.5°	8622.7	8563.6	8554.8	8401.3	8174.1	7932.1	7660.7	7418.7	7288.8	7132.4	7141.3
10°	8666.9	8599.1	8484.0	8171.2	7793.5	7406.9	7002.6	6642.6	6415.4	6205.8	6170.4
12.5°	8684.6	8584.3	8315.8	7843.6	7312.4	6807.8	6214.7	5701.2	5347.1	5072.7	5034.3
15°	8717.1	8554.8	8100.3	7448.2	6719.3	6005.2	5249.7	4547.4	4078.2	3762.5	3789.0
17.5°	8767.3	8522.3	7858.4	7005.5	6081.9	5072.7	4051.7	3246.0	2815.2	2632.2	2635.2
20°	8838.1	8484.0	7592.8	6518.6	5317.6	4019.2	2832.9	2225.0	2104.0	2098.1	2089.3
22.5°	8932.5	8445.6	7309.5	5984.5	4411.7	2815.2	1885.7	1696.8	1747.0	1844.3	1862.0
25°	9044.7	8398.4	6993.7	5382.5	3423.1	1847.3	1413.5	1384.0	1505.0	1634.8	1664.3
27.5°	9218.8	8374.8	6633.7	4697.9	2402.1	1325.0	1156.8	1174.5	1283.7	1392.8	1419.4
30°	9513.9	8419.1	6241.3	3930.7	1543.3	1056.4	1003.3	1029.9	1088.9	1145.0	1168.6
32.5°	9915.2	8548.9	5860.6	3092.6	1100.7	917.7	905.9	920.7	944.3	976.8	985.6
35°	10384.4	8773.2	5468.1	2213.2	908.9	838.1	826.3	826.3	838.1	844.0	846.9
37.5°	10771.0	9009.2	5099.2	1472.5	814.5	776.1	758.4	749.5	746.6	752.5	755.4
40°	10939.2	9106.6	4697.9	1071.2	746.6	720.0	693.5	666.9	666.9	687.6	690.5
42.5°	10821.1	8997.4	4234.6	885.3	699.4	661.0	619.7	596.1	607.9	628.6	634.5
45°	10570.3	8728.9	3724.1	782.0	652.2	602.0	554.8	540.0	551.8	578.4	584.3
47.5°	10529.0	8551.8	3113.2	714.1	602.0	551.8	501.7	486.9	501.7	522.3	528.2
50°	10939.2	8705.3	2434.5	655.1	554.8	498.7	457.4	442.6	451.5	463.3	469.2
52.5°	11688.7	9274.8	1965.3	599.0	498.7	445.6	419.0	401.3	401.3	413.1	416.1
55°	12795.3	10269.3	1696.8	534.1	433.8	404.3	380.7	363.0	363.0	368.9	371.8
57.5°	14070.1	11473.3	1758.8	448.5	380.7	365.9	345.3	330.5	336.4	336.4	336.4
60°	13893.1	11384.8	1882.7	377.7	336.4	330.5	312.8	306.9	321.7	309.8	303.9
62.5°	10233.9	7864.3	985.6	309.8	289.2	283.3	271.5	283.3	303.9	271.5	259.7
65°	4969.4	3806.7	395.4	253.8	244.9	239.0	233.1	250.8	262.6	212.5	200.7
67.5°	1168.6	950.2	256.7	215.4	203.6	191.8	197.7	200.7	191.8	144.6	138.7
70°	303.9	298.0	200.7	180.0	162.3	150.5	150.5	147.5	126.9	91.5	85.6
72.5°	165.3	162.3	144.6	135.7	112.1	100.3	103.3	91.5	70.8	53.1	50.2
75°	82.6	88.5	82.6	76.7	62.0	56.1	56.1	50.2	35.4	20.7	20.7
77.5°	17.7	20.7	20.7	17.7	14.8	11.8	11.8	14.8	5.9	0.0	0.0
80°	3.0	3.0	3.0	3.0	3.0	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)