

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: P639753

Luminaire Tested: GWS-SA5C-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639753
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-SA5C-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14144.6 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

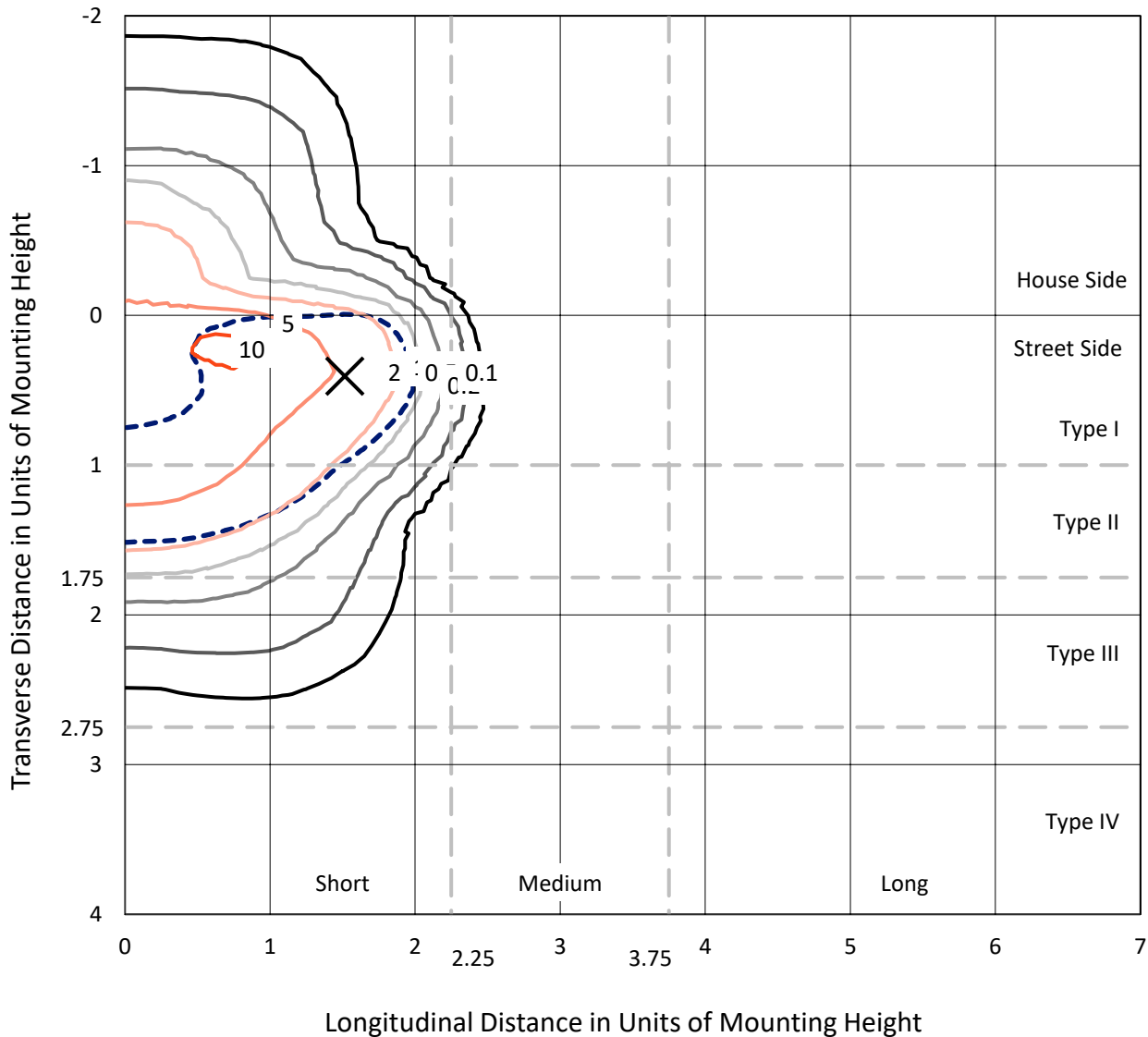
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

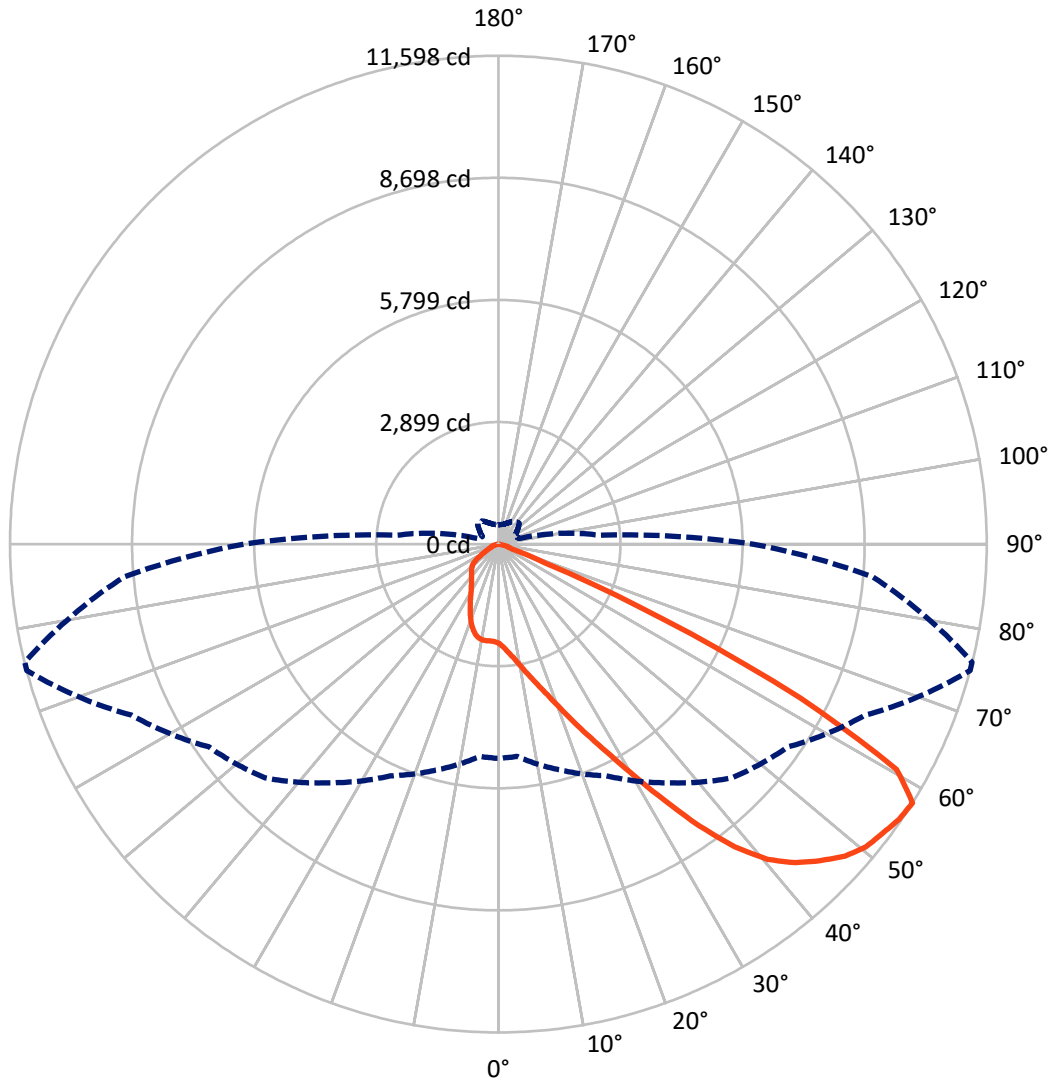
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11 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	2310.5	0.0	2310.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	11834.1	0.0	11834.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	14144.6	0.0	14144.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.7
10°-20°	779.8	5.5
20°-30°	1428.0	10.1
30°-40°	2369.2	16.8
40°-50°	3618.4	25.6
50°-60°	4065.9	28.7
60°-70°	1499.7	10.6
70°-80°	143.3	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°	14144.6	100.0
0°-180°	14144.6	100.0

Coefficient of Utilization



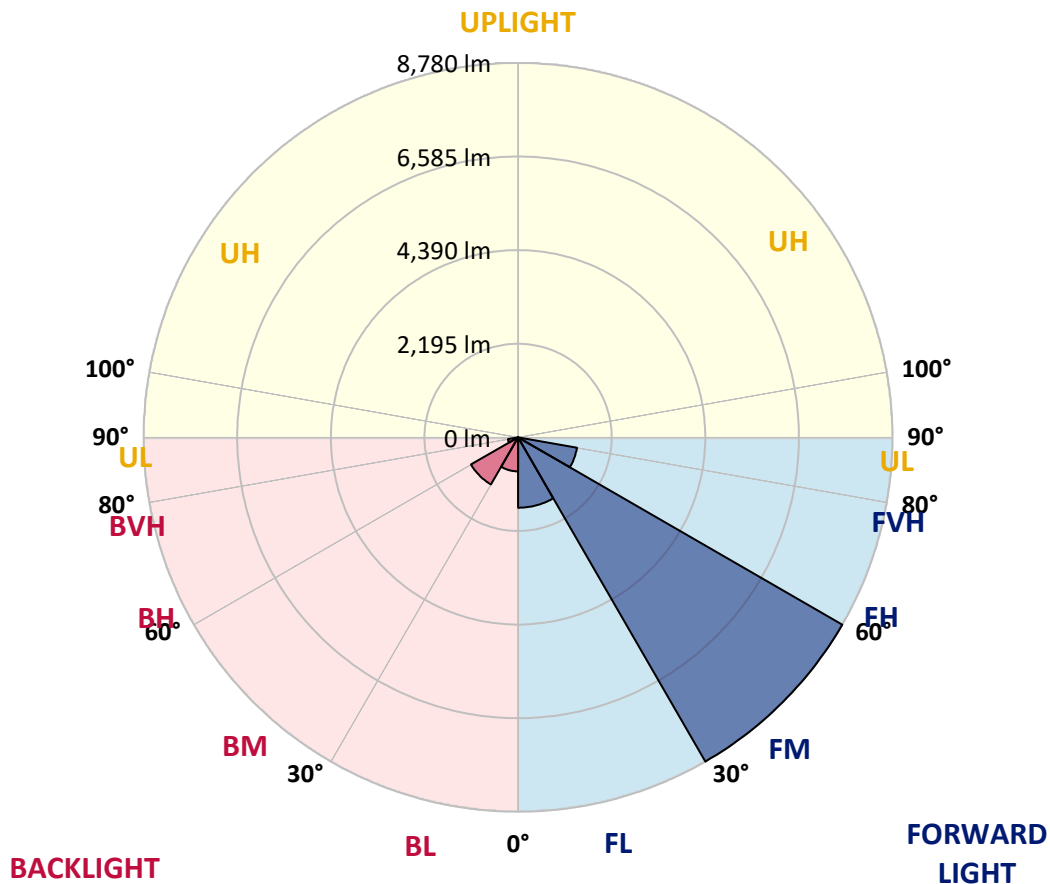
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1650.6	11.7			
FM (30°-60°)	8780.3	62.1			
FH (60°-80°)	1403.1	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	797.3	5.6	B2/1000		
BM (30°-60°)	1273.2	9.0	B2/2500		
BH (60°-80°)	239.9	1.7	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: 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°	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1
2.5°	2635.7	2663.0	2654.4	2637.4	2627.1	2591.3	2569.1	2504.2	2458.1	2453.0	2410.3
5°	2968.5	2963.4	2956.6	2936.1	2919.0	2862.7	2796.1	2686.9	2589.6	2577.6	2487.1
7.5°	3151.2	3154.6	3158.0	3154.6	3142.7	3100.0	3026.6	2898.5	2750.0	2739.8	2596.4
10°	3226.3	3233.1	3250.2	3282.6	3311.6	3308.2	3265.6	3134.1	2951.5	2934.4	2741.5
12.5°	3262.1	3270.7	3298.0	3359.4	3438.0	3499.4	3506.2	3388.5	3187.0	3159.7	2913.9
15°	3311.6	3320.2	3354.3	3434.6	3548.9	3670.1	3748.6	3673.5	3448.2	3419.2	3103.4
17.5°	3333.8	3345.8	3395.3	3501.1	3649.6	3835.7	4013.2	4006.4	3757.2	3735.0	3323.6
20°	3376.5	3385.1	3429.4	3543.8	3723.0	3991.0	4289.8	4397.3	4134.4	4102.0	3589.9
22.5°	3511.4	3514.8	3535.3	3607.0	3774.3	4103.7	4571.4	4853.1	4580.0	4537.3	3888.6
25°	3731.6	3729.9	3738.4	3750.4	3873.3	4218.1	4842.9	5366.9	5090.4	5044.3	4226.6
27.5°	4011.5	4011.5	4032.0	3997.9	4047.4	4359.8	5110.9	5957.6	5684.4	5619.6	4597.0
30°	4341.0	4339.3	4387.1	4332.5	4347.8	4583.4	5399.4	6601.1	6401.4	6321.2	5023.8
32.5°	4788.2	4778.0	4832.6	4757.5	4706.3	4921.4	5751.0	7273.7	7260.0	7137.1	5559.8
35°	5353.3	5336.2	5353.3	5279.9	5187.7	5394.2	6211.9	7944.5	8212.5	8082.8	6198.2
37.5°	5914.9	5969.5	5988.3	5862.0	5786.8	5993.4	6766.7	8545.4	9122.4	8987.5	6862.3
40°	6577.2	6560.1	6625.0	6483.3	6435.5	6664.3	7309.5	8992.7	9842.8	9714.7	7452.9
42.5°	7065.4	7096.1	7176.4	7097.9	7060.3	7275.4	7765.3	9253.8	10342.9	10216.6	7874.6
45°	7650.9	7673.1	7703.8	7639.0	7599.7	7811.4	8094.8	9368.2	10723.6	10587.0	8157.9
47.5°	8284.2	8301.3	8301.3	8168.2	8041.8	8128.9	8315.0	9433.1	11073.5	10942.1	8367.9
50°	8738.3	8746.8	8822.0	8728.1	8453.2	8318.4	8415.7	9496.2	11305.7	11182.8	8436.2
52.5°	8335.5	8325.2	8572.7	8767.3	8840.7	8572.7	8589.8	9588.4	11418.4	11312.5	8490.8
55°	7019.3	7002.3	7350.5	7823.3	8470.3	8813.4	8799.8	9643.0	11543.0	11478.1	8688.8
57.5°	5088.7	5059.7	5544.4	6070.2	6918.6	7848.9	8395.2	9612.3	11597.6	11592.5	8919.3
60°	3059.0	3035.1	3492.6	4045.7	4701.2	5636.6	6543.1	8610.3	10867.0	10877.2	8320.1
62.5°	1882.9	1905.1	2318.2	2599.8	2843.9	3125.6	3649.6	5792.0	8050.4	8117.0	5846.6
65°	1266.6	1283.7	1666.1	2021.1	2021.1	1652.4	1418.5	2768.8	4294.9	4182.2	2765.4
67.5°	850.1	868.9	1171.0	1585.8	1645.6	1152.2	575.3	826.2	1196.6	1160.8	684.5
70°	500.2	520.6	780.1	1087.4	1198.3	802.3	384.1	349.9	339.7	329.5	266.3
72.5°	223.6	232.2	397.7	553.1	505.3	338.0	271.4	280.0	264.6	259.5	216.8
75°	68.3	71.7	102.4	119.5	121.2	121.2	163.9	220.2	208.3	210.0	167.3
77.5°	17.1	17.1	27.3	25.6	13.7	11.9	30.7	49.5	51.2	46.1	34.1
80°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
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°	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1
2.5°	2391.6	2347.2	2318.2	2277.2	2248.2	2217.4	2190.1	2167.9	2156.0	2152.6	2154.3
5°	2446.2	2376.2	2307.9	2229.4	2174.8	2123.6	2082.6	2050.1	2034.8	2029.7	2029.7
7.5°	2529.8	2432.5	2311.3	2188.4	2096.2	2016.0	1968.2	1932.4	1918.7	1915.3	1905.1
10°	2639.1	2505.9	2306.2	2115.0	1985.3	1901.6	1867.5	1857.3	1862.4	1864.1	1862.4
12.5°	2770.5	2582.7	2273.8	2007.5	1867.5	1816.3	1819.7	1847.0	1877.7	1893.1	1896.5
15°	2910.5	2652.7	2200.4	1879.4	1766.8	1765.1	1814.6	1877.7	1937.5	1963.1	1969.9
17.5°	3067.5	2709.1	2087.7	1742.9	1679.7	1729.2	1818.0	1915.3	1995.5	2038.2	2046.7
20°	3240.0	2755.2	1944.3	1614.9	1602.9	1691.7	1814.6	1934.1	2033.1	2080.9	2089.4
22.5°	3419.2	2787.6	1778.7	1497.1	1532.9	1649.0	1782.1	1898.2	1992.1	2046.7	2053.6
25°	3624.0	2791.0	1609.7	1398.1	1468.1	1591.0	1703.6	1799.2	1877.7	1925.5	1930.7
27.5°	3803.3	2750.0	1459.5	1317.8	1408.3	1519.3	1594.4	1647.3	1701.9	1729.2	1730.9
30°	4009.8	2678.3	1317.8	1253.0	1346.9	1430.5	1468.1	1480.0	1485.1	1490.2	1483.4
32.5°	4255.6	2591.3	1212.0	1189.8	1276.9	1333.2	1343.4	1319.5	1290.5	1249.5	1239.3
35°	4557.8	2512.8	1124.9	1128.4	1200.0	1234.2	1225.7	1174.4	1118.1	1068.6	1060.1
37.5°	4885.5	2446.2	1058.4	1068.6	1116.4	1140.3	1114.7	1058.4	1032.8	990.1	991.8
40°	5175.7	2391.6	998.6	1008.9	1031.0	1053.2	1012.3	974.7	1022.5	1019.1	1022.5
42.5°	5382.3	2345.5	947.4	942.3	957.6	973.0	942.3	923.5	1003.7	981.5	993.5
45°	5503.5	2302.8	904.7	874.0	897.9	925.2	904.7	880.8	908.1	805.7	797.2
47.5°	5585.4	2278.9	867.2	807.4	850.1	897.9	855.2	797.2	757.9	669.2	662.3
50°	5594.0	2266.9	822.8	739.1	793.8	845.0	795.5	715.2	658.9	619.7	614.5
52.5°	5638.3	2290.8	761.3	652.1	711.8	793.8	759.6	679.4	602.6	568.4	561.6
55°	5836.4	2391.6	658.9	532.6	619.7	754.5	730.6	606.0	532.6	512.1	507.0
57.5°	6041.2	2412.0	518.9	421.6	539.4	698.2	667.5	558.2	486.5	462.6	457.5
60°	5524.0	1987.0	389.2	348.2	476.3	645.3	617.9	529.2	445.5	416.5	411.4
62.5°	3629.2	1073.7	309.0	295.3	401.2	546.3	563.3	478.0	397.7	367.0	365.3
65°	1672.9	498.5	237.3	233.9	314.1	435.3	484.8	418.2	336.3	309.0	309.0
67.5°	455.8	247.5	186.1	172.4	213.4	291.9	353.4	312.4	239.0	206.6	204.8
70°	227.0	199.7	167.3	148.5	153.6	180.9	208.3	174.1	121.2	99.0	97.3
72.5°	186.1	163.9	141.7	126.3	116.1	111.0	107.5	87.1	56.3	42.7	41.0
75°	138.3	117.8	100.7	81.9	70.0	64.9	58.0	42.7	23.9	13.7	11.9
77.5°	30.7	29.0	27.3	20.5	18.8	15.4	11.9	8.5	3.4	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	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)