

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: P642478

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
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-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23937.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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

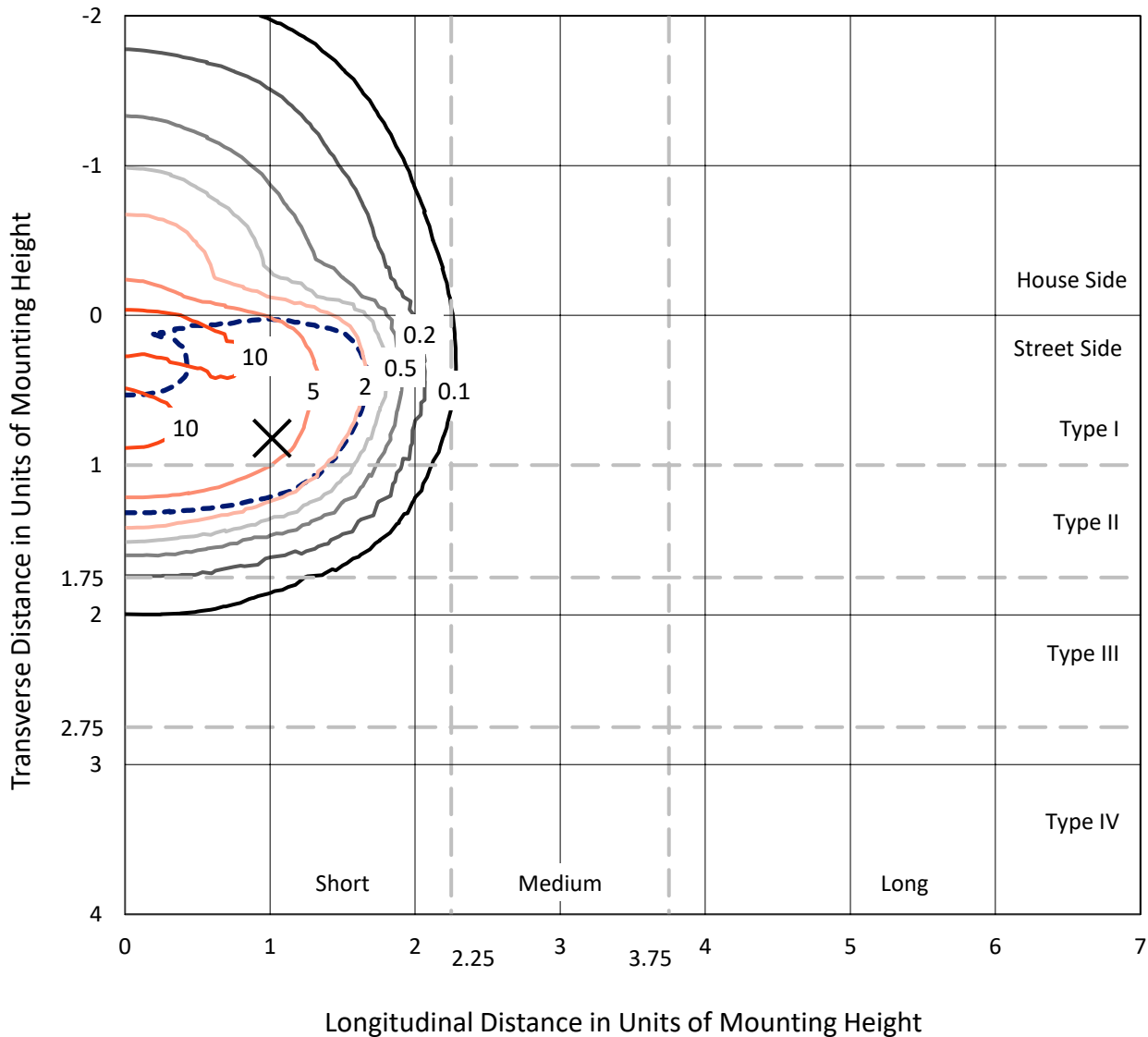


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Iso-Footcandle Lines of Horizontal Illumination

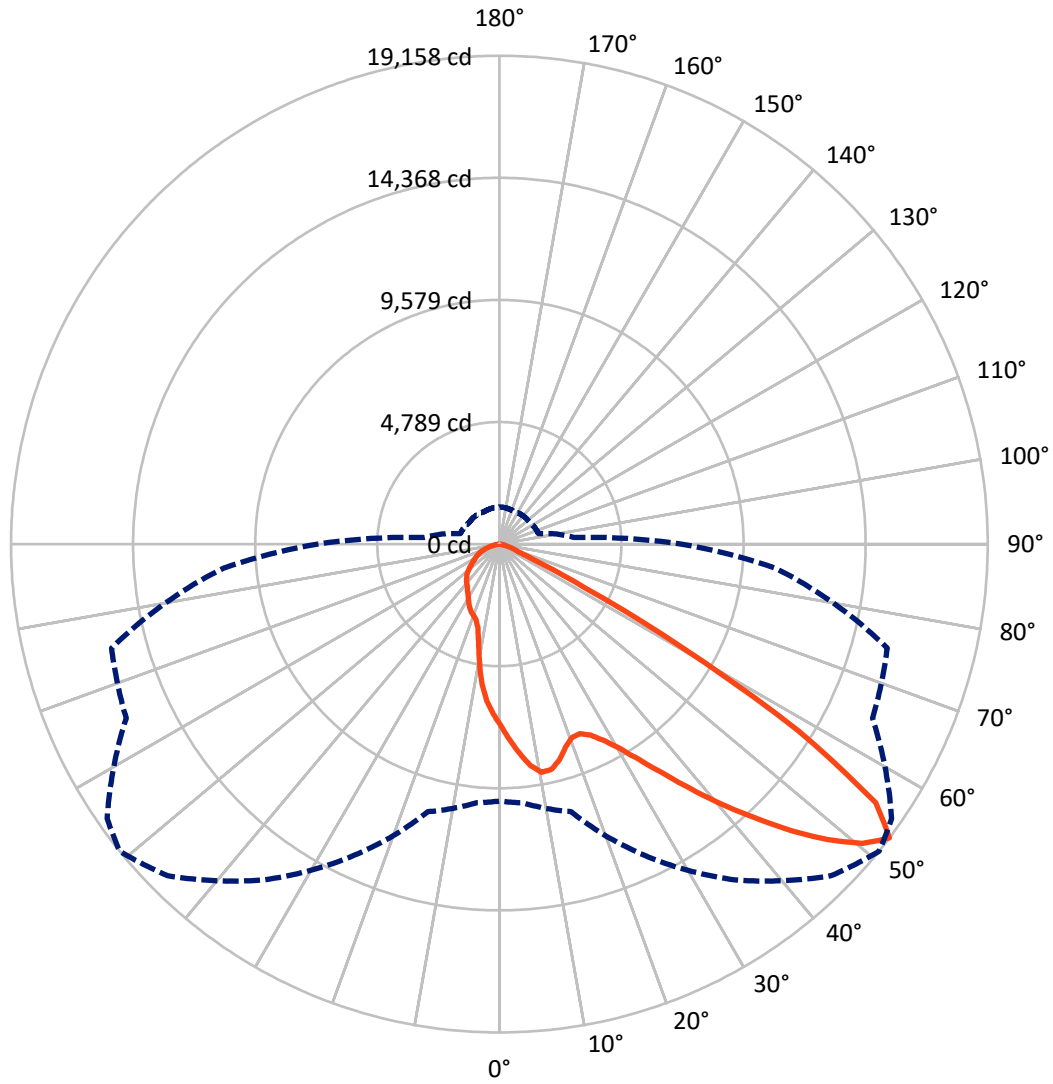
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4664.0	0.0	4664.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	19273.5	0.0	19273.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	23937.5	0.0	23937.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.1	2.8
10°-20°	1728.2	7.2
20°-30°	2809.8	11.7
30°-40°	4453.0	18.6
40°-50°	6716.0	28.1
50°-60°	5809.9	24.3
60°-70°	1317.2	5.5
70°-80°	388.4	1.6
80°-90°	50.0	0.2
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°	23937.5	100.0
0°-180°	23937.5	100.0

Coefficient of Utilization



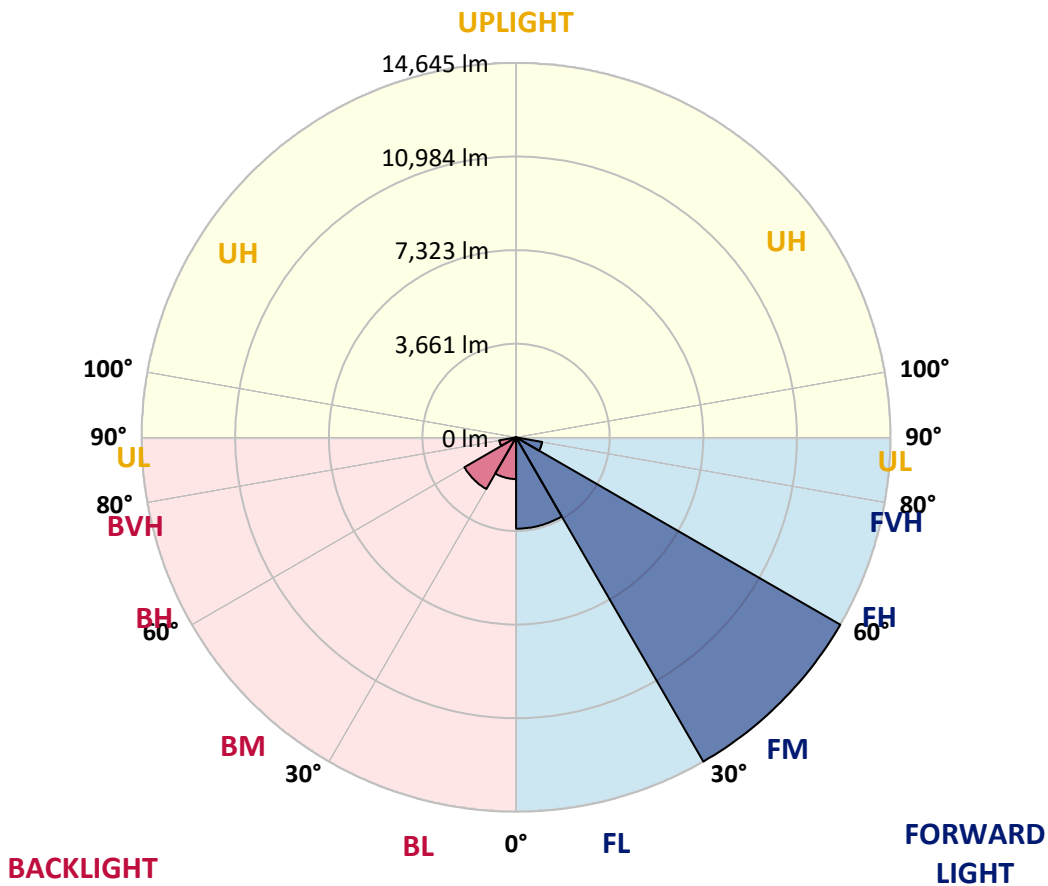
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3572.7	14.9			
FM (30°-60°)	14645.3	61.2			
FH (60°-80°)	1036.6	4.3			G1/1800
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	1630.3	6.8	B3/2500		
BM (30°-60°)	2333.6	9.7	B2/2500		
BH (60°-80°)	669.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	31.2	0.1			G1/100
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°	51°	55°	65°	75°	85°
0°	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4
2.5°	7942.6	7988.0	7918.1	7891.6	7848.1	7772.4	7685.4	7660.8	7473.5	7350.6	7212.5
5°	8740.9	8765.5	8708.7	8652.0	8544.2	8409.9	8241.5	8205.6	7865.1	7583.3	7290.1
7.5°	8918.7	8909.2	8958.4	8990.6	8977.3	8924.4	8774.9	8704.9	8298.3	7851.9	7418.7
10°	8215.0	8162.1	8343.7	8559.3	8818.4	9117.3	9100.3	9094.6	8740.9	8213.1	7583.3
12.5°	7282.5	7256.0	7403.6	7674.0	8164.0	8826.0	9073.8	9266.7	9140.0	8557.4	7766.7
15°	6749.1	6739.6	6839.9	7034.7	7424.4	8260.4	8790.1	9172.2	9482.4	8926.3	7961.6
17.5°	6652.6	6658.3	6692.3	6803.9	7083.9	7772.4	8385.3	8918.7	9749.1	9331.1	8205.6
20°	6934.4	6972.3	6913.6	6930.7	7082.0	7596.5	8109.1	8663.3	9919.3	9737.7	8468.5
22.5°	7560.6	7547.3	7418.7	7343.0	7344.9	7704.3	8078.8	8544.2	10030.9	10133.1	8706.8
25°	8269.9	8254.8	8101.5	7933.2	7827.3	7997.5	8296.4	8670.9	10131.2	10494.4	8897.9
27.5°	9107.8	9060.6	8890.3	8674.7	8440.1	8513.9	8716.3	9013.3	10286.3	10850.0	9024.6
30°	9919.3	9974.2	9730.2	9474.8	9227.0	9181.6	9298.9	9567.5	10602.2	11266.1	9175.9
32.5°	10995.6	10976.7	10706.2	10373.3	10019.6	9985.5	10078.2	10324.1	11169.6	11841.1	9406.7
35°	12298.9	12302.7	11918.7	11468.5	10965.4	10874.6	11029.7	11268.0	12015.2	12620.5	9771.8
37.5°	13653.3	13647.6	13312.8	12802.1	12115.4	11986.8	12164.6	12342.4	13072.6	13681.6	10339.3
40°	14602.8	14640.7	14483.7	14215.1	13564.4	13250.4	13407.4	13530.3	14222.6	14930.1	11086.4
42.5°	15141.9	15198.7	15232.7	15393.5	15051.1	14716.3	14659.6	14723.9	15249.7	16089.6	11788.2
45°	15257.3	15333.0	15580.8	16176.6	16309.0	16214.4	16029.1	15873.9	16015.8	16912.4	12247.8
47.5°	14748.5	14880.9	15410.5	16452.8	17226.4	17523.4	17317.2	17080.8	16458.4	17124.3	12200.5
50°	12732.1	12887.2	14080.8	15889.1	17356.9	18438.9	18457.8	18107.9	16405.5	16513.3	11606.6
52.5°	10080.1	10186.0	10868.9	13469.8	16076.3	18401.1	19157.7	18783.2	16150.1	15749.1	10863.2
55°	6024.6	6194.9	6832.3	8886.5	12524.0	16309.0	17920.6	18102.2	16025.3	15107.9	10356.3
57.5°	2033.4	2116.7	2725.7	3925.0	7380.9	11941.4	13846.2	14583.9	14548.0	14128.0	9367.0
60°	968.5	987.4	1110.3	1488.7	2954.6	6240.2	8196.1	9047.3	9822.9	9900.4	5827.9
62.5°	737.7	749.1	811.5	892.8	1187.9	2629.3	3756.6	4407.3	4708.1	4040.4	2122.3
65°	616.6	626.1	673.4	724.5	807.7	1138.7	1441.4	1662.7	1498.1	1167.1	1012.0
67.5°	514.5	522.1	558.0	612.9	669.6	762.3	800.1	822.8	862.6	968.5	930.6
70°	402.9	410.5	448.3	495.6	550.4	573.1	609.1	631.8	711.2	847.4	843.6
72.5°	310.2	319.7	340.5	370.7	416.1	438.8	478.6	505.0	550.4	660.2	705.6
75°	227.0	232.7	251.6	261.0	266.7	261.0	300.8	331.0	391.6	433.2	444.5
77.5°	92.7	104.0	100.3	100.3	119.2	143.8	164.6	183.5	225.1	249.7	251.6
80°	37.8	41.6	49.2	54.9	66.2	85.1	98.4	105.9	124.8	140.0	151.3
82.5°	22.7	24.6	28.4	30.3	37.8	49.2	56.7	62.4	77.6	92.7	98.4
85°	11.3	11.3	13.2	15.1	18.9	22.7	26.5	30.3	39.7	49.2	54.9
87.5°	1.9	1.9	1.9	3.8	5.7	7.6	9.5	11.3	13.2	15.1	18.9
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°	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4	7127.4
2.5°	7131.2	7029.0	6909.9	6815.3	6705.6	6624.2	6508.8	6437.0	6368.9	6312.1	6270.5
5°	7138.7	6966.6	6718.8	6499.4	6272.4	6056.8	5835.5	5655.8	5495.0	5360.7	5349.3
7.5°	7182.2	6934.4	6546.7	6162.7	5720.1	5292.6	4865.1	4517.0	4252.2	4114.1	4085.8
10°	7256.0	6930.7	6370.8	5757.9	5003.2	4314.6	3807.7	3542.9	3389.7	3334.8	3315.9
12.5°	7333.6	6921.2	6145.7	5186.7	4138.7	3535.3	3257.3	3225.1	3253.5	3257.3	3255.4
15°	7428.1	6915.5	5861.9	4517.0	3506.9	3174.0	3192.9	3261.0	3327.2	3342.4	3342.4
17.5°	7543.5	6902.3	5476.1	3862.6	3111.6	3104.0	3204.3	3295.1	3357.5	3368.9	3368.9
20°	7664.6	6868.2	5001.3	3329.1	2950.8	3060.5	3168.4	3238.3	3281.9	3297.0	3298.9
22.5°	7747.8	6777.4	4454.6	2933.8	2850.6	2977.3	3054.9	3126.7	3126.7	3088.9	3077.6
25°	7764.8	6582.6	3862.6	2663.3	2731.4	2848.7	2928.1	2886.5	2809.0	2778.7	2776.8
27.5°	7702.4	6298.9	3278.1	2470.4	2587.7	2704.9	2691.7	2631.2	2597.1	2566.8	2578.2
30°	7626.8	5958.4	2771.1	2311.5	2421.2	2536.6	2491.2	2470.4	2445.8	2411.7	2419.3
32.5°	7575.7	5578.2	2381.5	2188.5	2309.6	2328.5	2360.7	2358.8	2336.1	2271.8	2268.0
35°	7590.8	5194.2	2120.4	2088.3	2216.9	2209.3	2269.9	2258.5	2101.5	2012.6	2006.9
37.5°	7711.9	4825.4	1967.2	2008.8	2069.4	2116.7	2169.6	2033.4	1978.6	1921.8	1925.6
40°	7942.6	4483.0	1884.0	1965.3	1980.5	2050.4	1927.5	1925.6	1901.0	1849.9	1848.1
42.5°	8203.7	4193.6	1827.2	1944.5	1923.7	1937.0	1806.4	1821.6	1819.7	1787.5	1778.1
45°	8362.6	3926.9	1781.8	1867.0	1872.6	1740.2	1700.5	1717.5	1727.0	1710.0	1708.1
47.5°	8198.0	3620.4	1734.6	1747.8	1797.0	1651.3	1602.1	1604.0	1621.1	1623.0	1615.4
50°	7736.5	3278.1	1677.8	1645.7	1613.5	1558.6	1513.2	1503.8	1520.8	1537.8	1543.5
52.5°	7140.6	2950.8	1583.2	1534.1	1458.4	1458.4	1437.6	1407.3	1430.0	1452.7	1460.3
55°	6703.7	2708.7	1448.9	1394.1	1310.8	1339.2	1335.4	1309.0	1339.2	1356.2	1361.9
57.5°	5809.0	2177.2	1274.9	1257.9	1187.9	1221.9	1229.5	1195.5	1180.3	1184.1	1189.8
60°	3448.3	1405.4	1150.1	1148.2	1085.8	1125.5	1148.2	1114.1	1068.7	1074.4	1082.0
62.5°	1547.3	1074.4	993.1	985.5	983.6	1034.7	1059.3	1027.1	962.8	968.5	976.0
65°	974.2	928.8	862.6	862.6	892.8	936.3	955.2	928.8	855.0	845.5	853.1
67.5°	904.2	864.4	796.3	783.1	798.2	834.2	836.1	785.0	741.5	733.9	733.9
70°	811.5	781.2	715.0	688.5	682.9	681.0	675.3	662.0	633.7	626.1	629.9
72.5°	671.5	650.7	609.1	580.7	565.6	563.7	541.0	529.6	505.0	501.3	499.4
75°	444.5	450.2	450.2	446.4	433.2	427.5	402.9	391.6	363.2	351.8	349.9
77.5°	262.9	268.6	276.2	278.1	276.2	276.2	253.5	240.2	211.9	196.7	192.9
80°	160.8	164.6	168.3	174.0	166.5	160.8	140.0	126.7	113.5	104.0	102.1
82.5°	104.0	107.8	109.7	113.5	109.7	102.1	85.1	77.6	68.1	60.5	58.6
85°	58.6	60.5	64.3	64.3	58.6	53.0	43.5	37.8	32.2	28.4	28.4
87.5°	20.8	20.8	20.8	22.7	18.9	17.0	11.3	7.6	5.7	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

(END OF REPORT)