

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: P637063

Luminaire Tested: GWS-SA4C-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12584.2 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

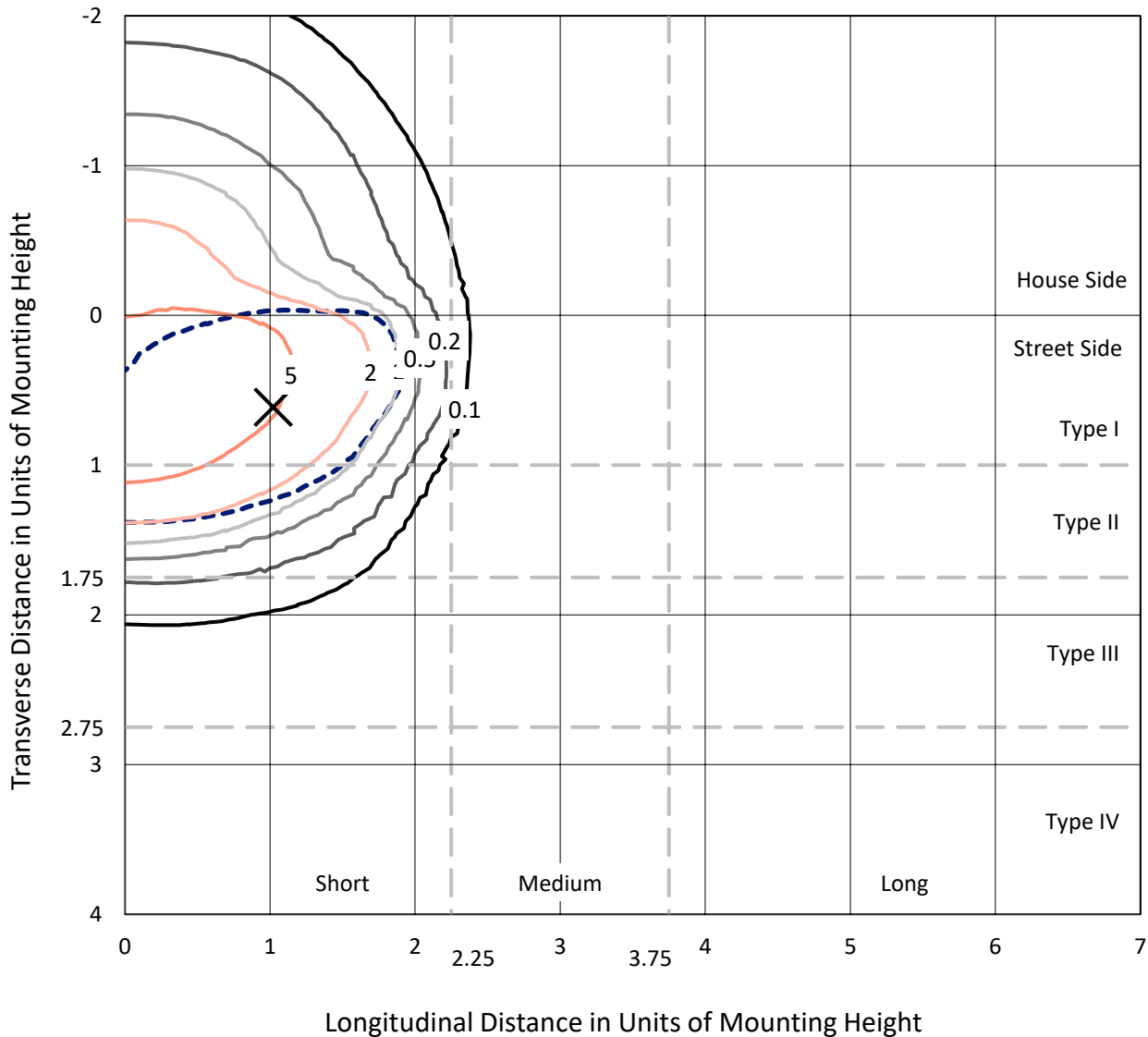
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

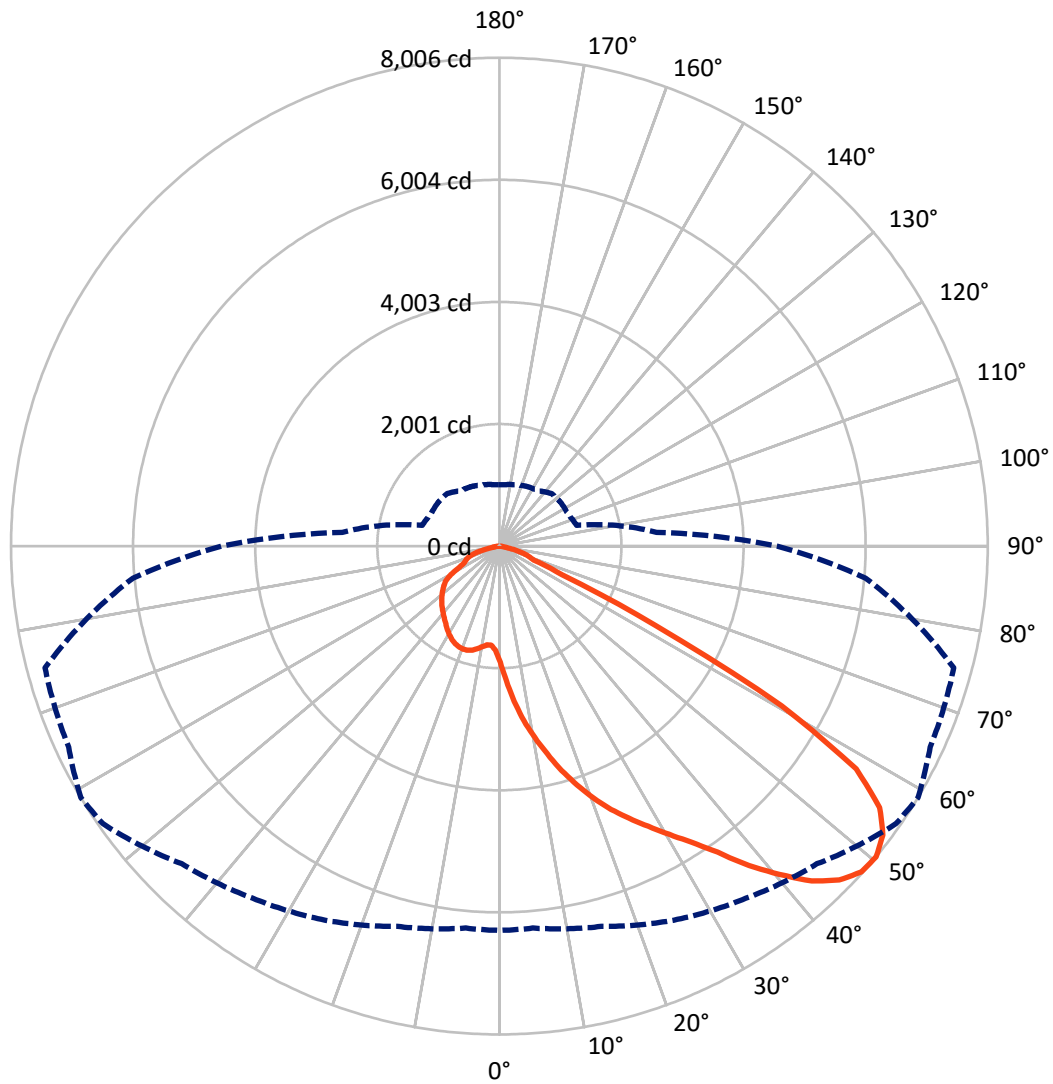
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2894.6	0.0	2894.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	9689.6	0.0	9689.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	12584.2	0.0	12584.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	1.7
10°-20°	776.5	6.2
20°-30°	1470.3	11.7
30°-40°	2438.2	19.4
40°-50°	3330.7	26.5
50°-60°	3023.4	24.0
60°-70°	1006.8	8.0
70°-80°	293.7	2.3
80°-90°	30.9	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°	12584.2	100.0
0°-180°	12584.2	100.0

Coefficient of Utilization



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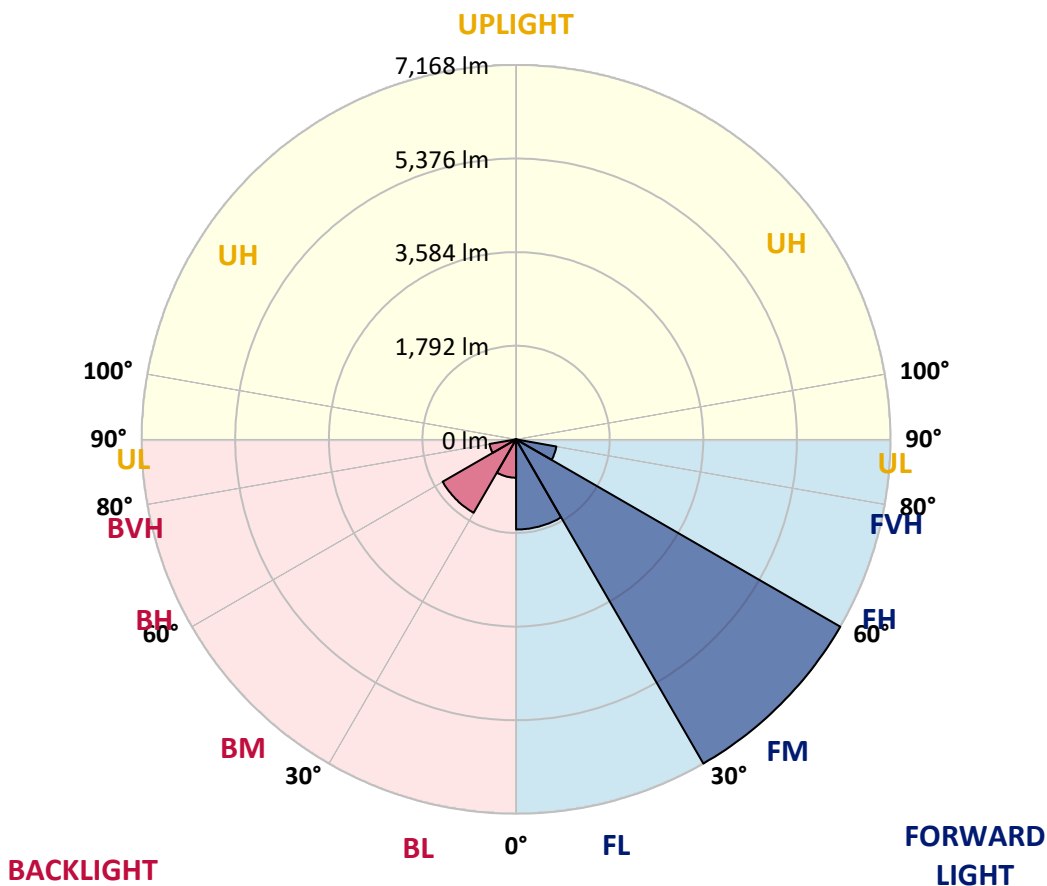
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.6	13.7			
FM (30°-60°)	7168.1	57.0			
FH (60°-80°)	783.8	6.2			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	735.0	5.8	B2/1000		
BM (30°-60°)	1624.2	12.9	B2/2500		
BH (60°-80°)	516.7	4.1	B2/1000		G2/1000
BVH (80°-90°)	18.8	0.1			G1/100
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°	59°	65°	75°	85°
0°	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6
2.5°	2470.4	2488.8	2460.1	2462.2	2390.4	2357.6	2265.4	2211.0	2175.2	2074.7	1983.5
5°	2968.5	2947.0	2924.5	2911.1	2848.6	2760.5	2645.7	2554.4	2470.4	2273.6	2083.9
7.5°	3274.0	3262.7	3247.4	3239.2	3177.7	3085.4	2970.6	2892.7	2770.7	2504.2	2205.9
10°	3533.4	3520.0	3510.8	3517.0	3466.7	3407.3	3282.2	3193.0	3055.7	2748.2	2353.5
12.5°	3734.3	3741.4	3744.5	3777.3	3755.8	3719.9	3590.8	3496.4	3343.7	3005.5	2526.8
15°	3893.1	3891.1	3927.0	3989.5	4024.4	4001.8	3898.3	3819.3	3632.8	3258.6	2713.3
17.5°	3930.0	3932.1	3988.5	4098.2	4211.9	4267.3	4208.9	4114.6	3930.0	3508.8	2907.0
20°	3959.8	3963.9	4022.3	4147.4	4313.4	4468.2	4477.4	4409.8	4250.9	3779.4	3103.9
22.5°	4147.4	4156.6	4172.0	4250.9	4400.5	4596.3	4704.0	4689.6	4556.4	4063.3	3316.0
25°	4640.4	4612.7	4537.9	4515.4	4572.8	4731.6	4915.1	4942.8	4877.2	4375.9	3544.6
27.5°	5249.3	5219.6	5108.9	4992.0	4868.0	4923.3	5119.1	5202.1	5203.2	4720.4	3774.2
30°	5801.8	5778.2	5688.0	5520.9	5306.7	5226.7	5371.3	5483.0	5549.6	5118.1	4035.6
32.5°	6274.3	6252.8	6130.8	5994.5	5785.4	5624.5	5676.7	5784.4	5940.2	5632.7	4360.6
35°	6672.1	6650.5	6533.7	6396.3	6202.6	6106.2	6087.8	6161.6	6363.5	6169.8	4733.7
37.5°	6994.9	6973.4	6851.4	6722.3	6574.7	6580.8	6608.5	6644.4	6760.2	6744.8	5132.4
40°	7204.1	7181.5	7094.4	7002.1	6908.8	6982.6	7120.0	7077.0	7138.5	7209.2	5499.4
42.5°	7297.3	7268.6	7218.4	7197.9	7169.2	7284.0	7548.5	7505.4	7431.6	7518.8	5772.1
45°	7204.1	7179.5	7178.4	7241.0	7307.6	7455.2	7844.7	7809.9	7623.3	7668.4	5935.0
47.5°	6918.1	6896.5	6955.0	7119.0	7283.0	7498.2	7976.9	7983.1	7759.6	7730.9	6040.6
50°	6300.0	6285.6	6454.7	6765.3	7048.3	7364.0	7934.9	8005.7	7792.4	7711.5	6027.3
52.5°	5043.3	5109.9	5477.9	5996.5	6546.0	7128.2	7779.1	7871.4	7634.6	7583.3	5955.5
55°	3452.4	3483.1	3851.1	4608.6	5479.9	6617.7	7421.4	7563.9	7448.0	7561.8	6030.4
57.5°	1787.7	1812.3	2102.4	2774.8	3716.8	5229.8	6428.1	6895.5	7071.8	7670.5	6263.1
60°	733.9	754.4	874.4	1199.3	1874.8	3045.4	4626.1	5319.0	5733.1	7005.2	5561.9
62.5°	533.0	543.3	600.7	715.5	982.0	1492.5	2618.0	2873.2	3164.3	4390.3	3531.3
65°	449.0	460.2	506.4	576.1	716.5	915.4	1118.3	1124.5	1239.3	1788.7	1309.0
67.5°	376.2	386.4	427.4	486.9	579.2	649.9	600.7	601.7	599.7	648.9	627.3
70°	293.2	301.4	342.4	405.9	454.1	417.2	469.5	519.7	498.2	517.7	547.4
72.5°	214.2	223.5	259.3	307.5	295.2	297.3	380.3	431.5	419.2	440.8	468.4
75°	154.8	160.9	179.4	153.8	162.0	195.8	267.5	295.2	307.5	326.0	350.6
77.5°	50.2	50.2	56.4	70.7	88.2	108.7	136.3	147.6	166.1	186.6	204.0
80°	25.6	26.7	31.8	39.0	49.2	62.5	80.0	85.1	94.3	105.6	112.8
82.5°	12.3	13.3	15.4	19.5	25.6	32.8	44.1	49.2	55.4	62.5	67.7
85°	3.1	3.1	4.1	6.2	8.2	12.3	16.4	19.5	24.6	29.7	32.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.1	5.1	6.2	8.2
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°	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6	1906.6
2.5°	1942.5	1885.1	1811.3	1748.7	1691.3	1647.3	1609.3	1590.9	1573.5	1561.2	1565.3
5°	1995.8	1897.4	1760.0	1664.7	1606.3	1576.5	1556.0	1545.8	1543.7	1535.5	1532.5
7.5°	2073.7	1933.2	1749.8	1653.4	1614.5	1599.1	1587.8	1581.7	1584.7	1576.5	1573.5
10°	2170.0	1992.7	1775.4	1690.3	1656.5	1645.2	1632.9	1624.7	1620.6	1608.3	1606.3
12.5°	2290.0	2066.5	1821.5	1737.5	1703.6	1684.2	1667.8	1653.4	1644.2	1628.8	1624.7
15°	2419.1	2148.5	1875.8	1783.6	1743.6	1714.9	1688.3	1666.7	1650.3	1629.8	1626.8
17.5°	2559.6	2234.6	1920.9	1815.4	1764.1	1726.2	1687.2	1655.5	1632.9	1606.3	1603.2
20°	2706.1	2321.7	1954.8	1830.7	1765.1	1713.9	1661.6	1619.6	1590.9	1564.2	1562.2
22.5°	2857.8	2401.7	1975.3	1826.6	1748.7	1685.2	1622.7	1575.5	1541.7	1509.9	1507.9
25°	3010.6	2478.6	1980.4	1810.2	1715.9	1642.1	1579.6	1524.3	1486.3	1450.4	1446.3
27.5°	3165.4	2543.2	1968.1	1777.4	1671.9	1591.9	1529.4	1475.0	1436.1	1400.2	1394.1
30°	3330.4	2598.5	1941.4	1734.4	1620.6	1538.6	1477.1	1436.1	1399.2	1363.3	1357.2
32.5°	3506.7	2646.7	1903.5	1682.1	1561.2	1485.3	1440.2	1403.3	1366.4	1334.6	1328.5
35°	3716.8	2678.5	1847.1	1614.5	1505.8	1446.3	1415.6	1372.5	1327.4	1292.6	1289.5
37.5°	3934.1	2703.1	1779.5	1549.9	1457.6	1423.8	1398.2	1339.7	1283.4	1241.3	1236.2
40°	4144.3	2723.6	1695.4	1489.4	1413.5	1407.4	1372.5	1299.8	1202.4	1155.2	1151.1
42.5°	4340.1	2729.7	1607.3	1424.8	1373.6	1370.5	1331.5	1218.8	1144.0	1114.2	1110.1
45°	4474.3	2724.6	1516.1	1364.3	1333.6	1317.2	1276.2	1160.4	1114.2	1087.6	1082.5
47.5°	4573.8	2697.9	1413.5	1300.8	1288.5	1265.9	1177.8	1123.5	1080.4	1053.8	1048.6
50°	4556.4	2587.2	1310.0	1239.3	1234.2	1214.7	1106.0	1077.3	1039.4	1010.7	1006.6
52.5°	4466.1	2377.1	1204.4	1171.6	1181.9	1144.0	1054.8	1022.0	989.2	956.4	949.2
55°	4488.7	2225.4	1124.5	1106.0	1124.5	1038.4	997.4	962.5	931.8	900.0	893.8
57.5°	4587.1	2075.7	1039.4	1035.3	1054.8	957.4	923.6	879.5	835.4	809.8	809.8
60°	3852.1	1513.0	889.7	900.0	944.1	891.8	862.1	817.0	768.8	746.2	746.2
62.5°	2277.7	949.2	738.0	726.8	754.4	787.2	803.6	766.7	709.3	679.6	680.6
65°	1003.5	690.9	650.9	641.7	633.5	656.0	701.1	704.2	643.7	608.9	609.9
67.5°	618.1	625.3	608.9	601.7	594.5	590.4	586.3	588.4	572.0	540.2	539.2
70°	557.6	577.1	565.8	559.7	550.5	543.3	518.7	478.7	451.0	442.8	452.0
72.5°	479.7	506.4	500.2	497.1	485.9	468.4	435.6	396.7	363.9	343.4	347.5
75°	361.8	383.4	386.4	387.5	375.2	358.8	324.9	292.1	263.4	241.9	247.0
77.5°	208.1	220.4	223.5	226.5	217.3	211.2	188.6	165.0	149.7	127.1	133.3
80°	115.8	121.0	121.0	122.0	116.9	109.7	94.3	81.0	73.8	63.6	64.6
82.5°	69.7	71.8	72.8	73.8	70.7	63.6	52.3	43.1	39.0	33.8	32.8
85°	33.8	35.9	35.9	36.9	31.8	27.7	21.5	16.4	14.4	10.3	11.3
87.5°	8.2	9.2	9.2	8.2	7.2	5.1	3.1	1.0	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)