

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: P636576

Luminaire Tested: GWS-SA4B-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 9347.5 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

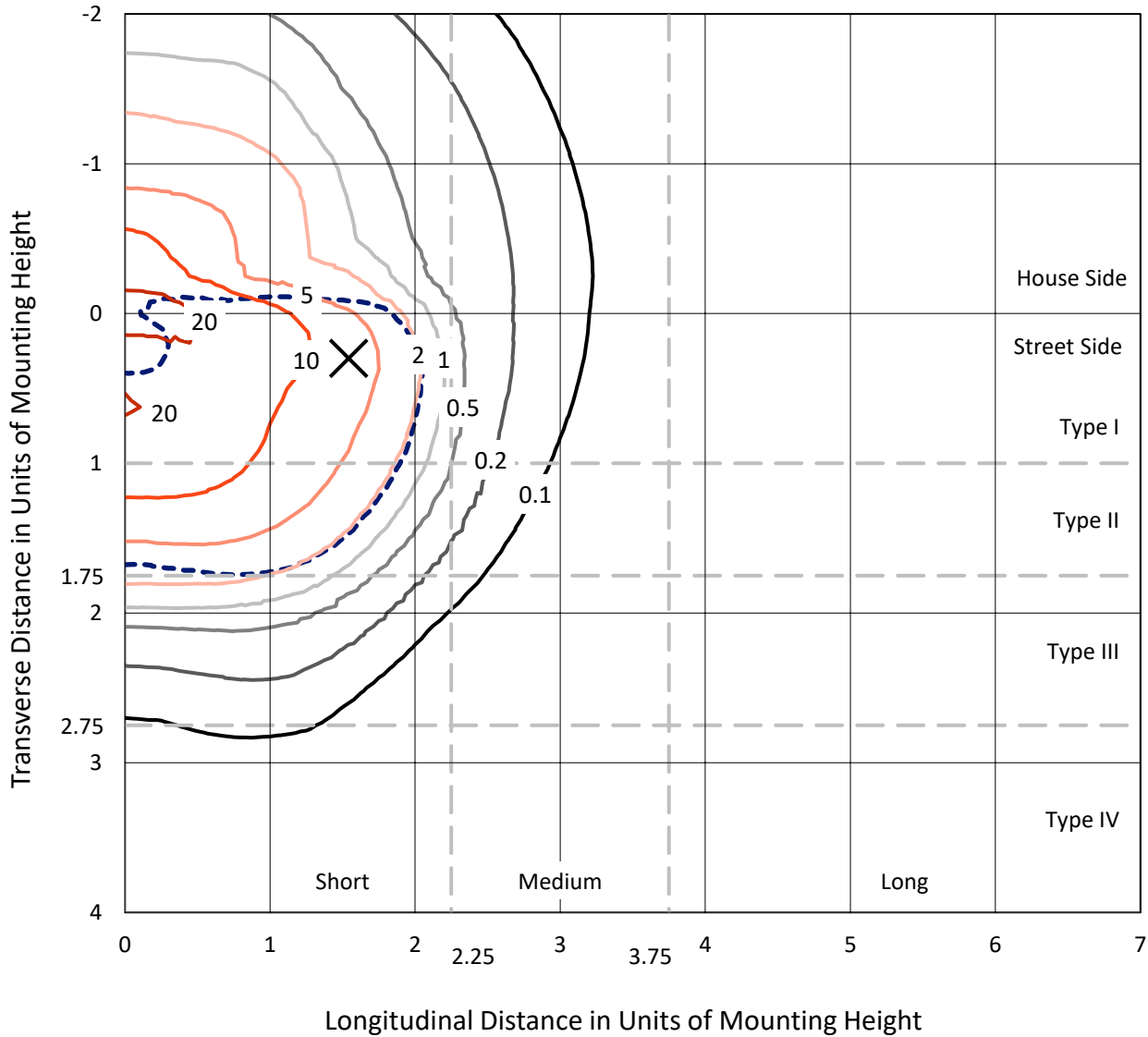
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

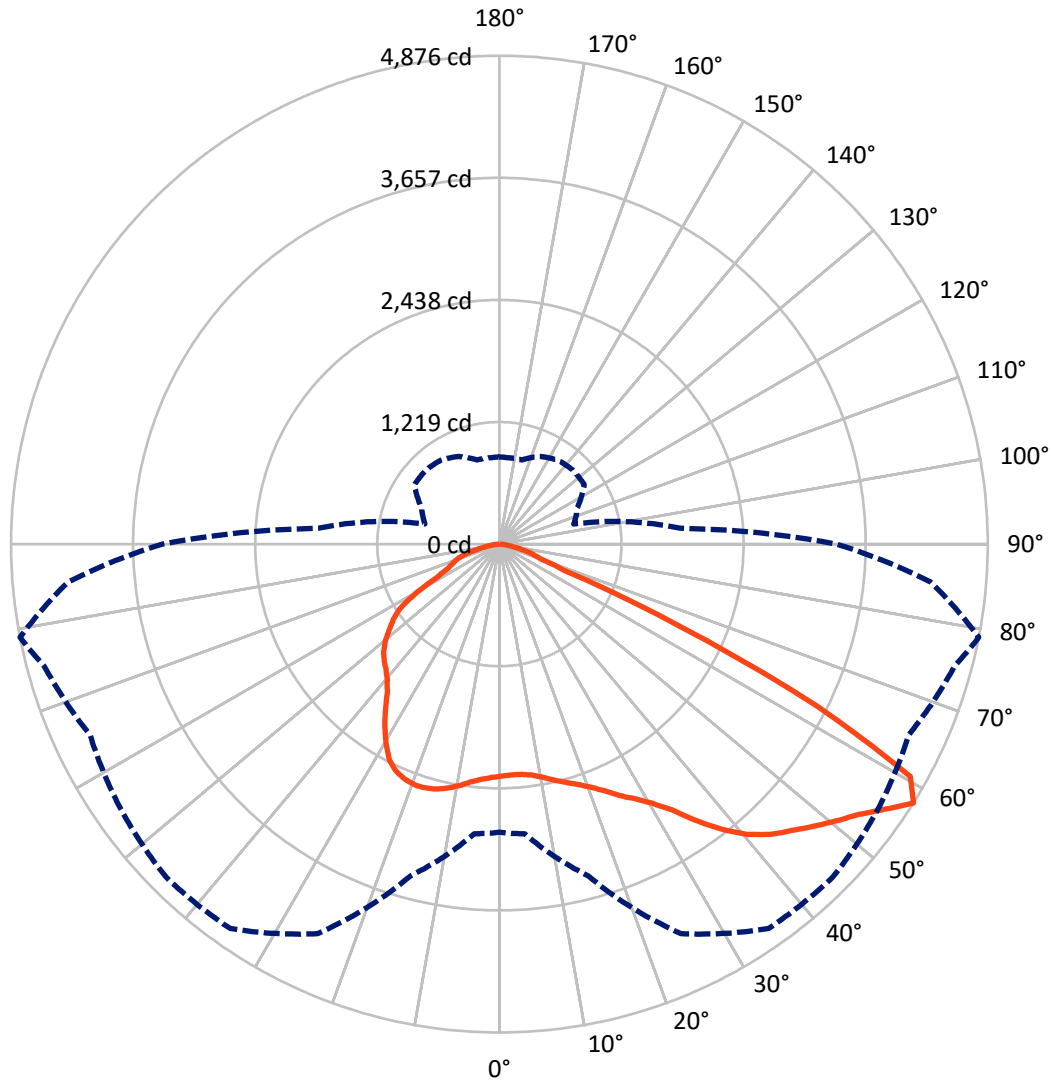
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2778.6	0.0	2778.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	6568.9	0.0	6568.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	9347.5	0.0	9347.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	2.3
10°-20°	596.2	6.4
20°-30°	1010.6	10.8
30°-40°	1546.8	16.5
40°-50°	2062.5	22.1
50°-60°	2382.0	25.5
60°-70°	1237.8	13.2
70°-80°	263.1	2.8
80°-90°	34.1	0.4
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°	9347.5	100.0
0°-180°	9347.5	100.0

Coefficient of Utilization



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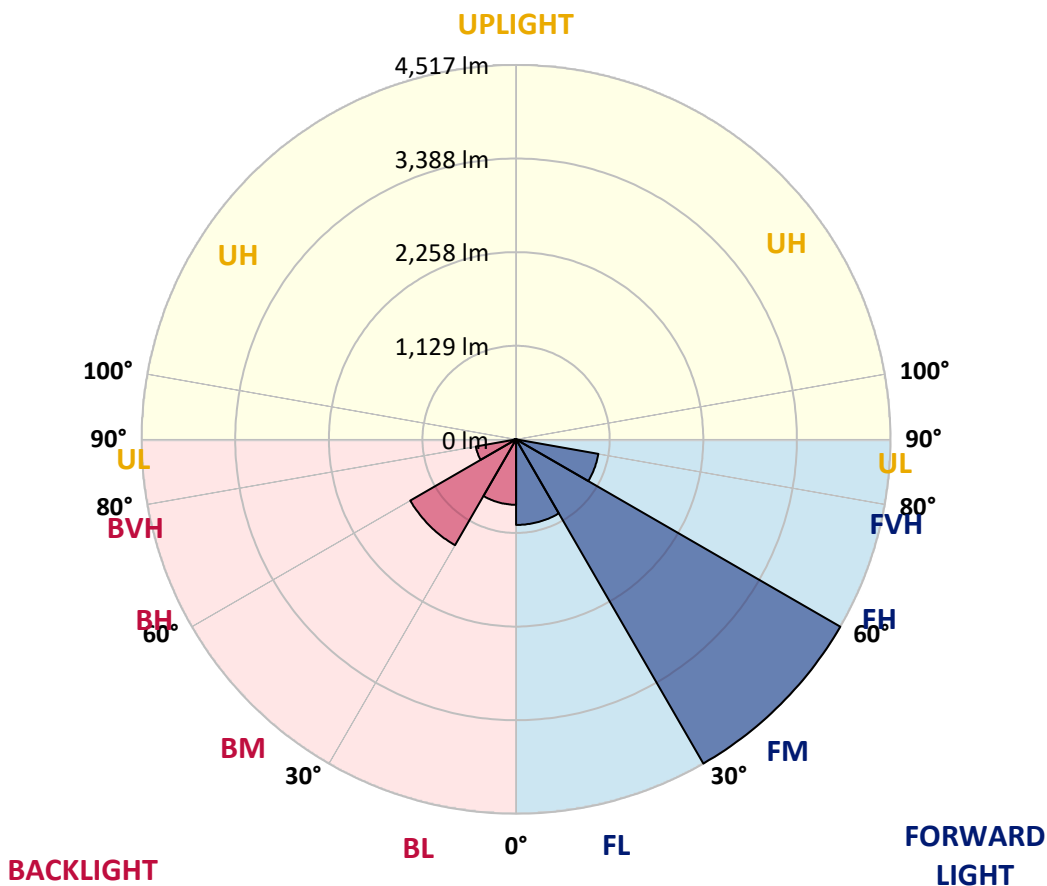
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.2	11.0			
FM (30°-60°)	4517.0	48.3			
FH (60°-80°)	1007.9	10.8			G1/1800
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	789.1	8.4	B2/1000		
BM (30°-60°)	1474.3	15.8	B2/2500		
BH (60°-80°)	493.0	5.3	B1/500		G1/500
BVH (80°-90°)	22.2	0.2			G1/100
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°	79°	85°
0°	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5
2.5°	2211.1	2206.5	2208.0	2214.1	2237.0	2253.9	2271.4	2287.5	2302.8	2307.4	2311.2
5°	2132.3	2123.9	2126.2	2136.2	2162.9	2191.2	2222.5	2260.7	2297.4	2309.6	2325.7
7.5°	2076.5	2075.0	2078.8	2094.1	2122.4	2149.1	2189.7	2243.9	2307.4	2328.0	2356.3
10°	2002.4	1999.4	2014.6	2046.0	2092.6	2135.4	2183.5	2247.7	2336.4	2367.0	2410.5
12.5°	1943.6	1942.0	1958.1	2001.6	2061.3	2129.3	2195.8	2267.6	2375.4	2417.4	2470.9
15°	1978.0	1971.1	1971.8	2002.4	2055.9	2136.2	2226.3	2303.5	2414.4	2467.9	2536.6
17.5°	2078.1	2065.8	2056.7	2062.0	2092.6	2175.9	2273.0	2351.7	2459.4	2522.1	2606.2
20°	2216.4	2209.5	2184.3	2167.5	2174.4	2247.7	2346.3	2419.7	2518.3	2588.6	2678.8
22.5°	2402.1	2385.3	2350.9	2324.2	2303.5	2360.9	2451.8	2515.2	2600.1	2673.4	2767.5
25°	2632.2	2607.7	2553.5	2511.4	2467.1	2525.9	2607.0	2655.1	2712.4	2780.4	2869.9
27.5°	2866.8	2846.2	2785.8	2729.2	2674.2	2710.9	2807.2	2834.7	2828.6	2878.3	2954.7
30°	3116.7	3090.7	3033.4	2972.3	2901.2	2924.9	3011.3	3025.0	2960.0	3001.3	3053.3
32.5°	3380.4	3355.2	3305.5	3234.4	3154.2	3163.3	3187.0	3200.0	3138.1	3161.8	3201.6
35°	3648.7	3625.0	3574.5	3504.2	3445.4	3389.6	3330.0	3381.9	3346.0	3391.9	3388.8
37.5°	3894.0	3870.3	3839.0	3784.7	3683.8	3573.8	3436.2	3500.4	3556.2	3614.3	3604.3
40°	4059.8	4043.8	4051.4	4043.0	3913.1	3695.3	3488.2	3558.5	3710.6	3809.9	3804.6
42.5°	4202.8	4186.7	4231.0	4263.1	4110.3	3807.6	3513.4	3580.6	3809.2	3964.3	3956.7
45°	4266.2	4261.6	4335.0	4436.6	4290.7	3926.9	3578.3	3626.5	3884.1	4082.8	4053.7
47.5°	4190.5	4206.6	4351.0	4523.0	4440.5	4068.3	3711.3	3723.6	3981.9	4211.2	4129.4
50°	4040.0	4075.1	4270.0	4525.3	4549.7	4228.0	3895.5	3865.0	4113.3	4348.0	4169.1
52.5°	3820.6	3857.3	4175.3	4507.7	4612.4	4412.9	4140.9	4097.3	4279.2	4484.8	4176.0
55°	3317.0	3366.6	3958.2	4468.0	4673.6	4581.1	4417.5	4328.9	4493.2	4672.8	4244.0
57.5°	2877.5	2903.5	3429.3	4291.4	4685.8	4704.9	4614.7	4509.2	4705.7	4876.1	4320.5
60°	2111.7	2117.8	2590.9	3550.8	4310.5	4633.1	4598.7	4442.0	4604.8	4713.3	3970.4
62.5°	1193.0	1193.8	1571.4	2370.0	3219.9	3776.3	3797.7	3659.4	3522.6	3554.7	2763.6
65°	447.9	489.9	717.7	1164.8	1856.4	2229.4	2318.1	2350.2	2122.4	1981.0	1481.9
67.5°	299.6	309.5	418.8	599.2	826.2	953.8	1066.9	1070.0	782.6	697.8	583.9
70°	228.5	238.5	329.4	428.8	418.8	386.7	418.1	406.6	420.4	431.8	444.0
72.5°	170.4	180.4	255.3	302.7	251.4	247.6	280.5	311.8	340.9	353.1	372.2
75°	113.1	120.8	172.0	162.0	139.1	164.3	204.8	236.2	253.0	267.5	282.0
77.5°	71.8	77.2	91.7	74.1	77.2	96.3	119.2	147.5	163.6	178.1	185.7
80°	32.9	32.1	31.3	35.2	43.6	56.6	71.8	88.7	100.9	107.0	111.6
82.5°	13.0	14.5	16.0	19.1	23.7	30.6	40.5	52.0	61.9	63.4	67.3
85°	5.3	6.1	6.9	8.4	10.7	13.8	16.8	23.7	29.8	32.1	34.4
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	2.3	3.8	6.9	7.6	8.4
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°	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5
2.5°	2331.8	2321.9	2338.7	2350.2	2360.9	2349.4	2345.6	2335.6	2334.1	2334.1	2339.5
5°	2353.2	2346.3	2363.9	2370.8	2370.0	2344.8	2329.5	2309.6	2299.7	2299.7	2301.2
7.5°	2391.4	2387.6	2397.5	2386.8	2362.4	2311.2	2260.7	2218.7	2190.4	2175.9	2180.5
10°	2454.9	2450.3	2441.9	2402.1	2331.8	2225.6	2122.4	2046.0	2000.1	1974.1	1975.7
12.5°	2516.8	2509.1	2479.3	2391.4	2247.0	2078.1	1942.8	1857.2	1806.8	1776.2	1769.3
15°	2584.8	2564.9	2500.7	2336.4	2108.6	1897.7	1756.3	1663.8	1609.6	1591.2	1590.5
17.5°	2649.8	2614.6	2498.4	2238.6	1942.8	1708.9	1566.8	1509.4	1500.3	1508.7	1511.0
20°	2715.5	2658.9	2473.2	2103.3	1745.6	1520.9	1447.5	1471.2	1505.6	1528.6	1533.9
22.5°	2783.5	2695.6	2415.9	1929.0	1537.7	1394.0	1424.6	1476.6	1519.4	1550.0	1553.0
25°	2859.9	2730.0	2330.3	1715.8	1371.1	1358.9	1419.3	1474.3	1520.1	1555.3	1561.4
27.5°	2903.5	2730.8	2210.3	1496.5	1294.7	1345.1	1406.3	1458.2	1504.1	1542.3	1549.2
30°	2946.3	2710.1	2020.0	1318.4	1272.5	1329.1	1384.1	1432.3	1475.8	1513.3	1521.7
32.5°	3006.7	2691.0	1800.6	1216.0	1259.5	1313.8	1358.9	1401.7	1435.3	1452.1	1456.7
35°	3081.6	2666.6	1567.5	1171.6	1251.1	1301.6	1341.3	1364.2	1320.7	1311.5	1321.4
37.5°	3186.3	2643.6	1335.2	1152.5	1245.8	1297.0	1332.1	1273.3	1219.8	1198.4	1206.0
40°	3299.4	2630.6	1177.8	1137.2	1248.1	1301.6	1293.9	1206.8	1129.6	1084.5	1083.0
42.5°	3395.7	2610.8	1076.9	1127.3	1254.2	1319.1	1242.0	1147.9	1033.3	1006.6	1007.3
45°	3460.7	2560.3	1023.4	1116.6	1259.5	1323.0	1217.5	1066.9	985.2	968.3	967.6
47.5°	3487.4	2468.6	989.0	1099.8	1258.8	1291.6	1167.8	1033.3	951.5	946.9	950.0
50°	3469.8	2318.1	953.8	1066.9	1240.4	1258.8	1110.5	1003.5	928.6	953.8	972.2
52.5°	3404.9	2123.2	911.8	1021.8	1207.6	1221.3	1081.5	985.2	911.8	945.4	959.9
55°	3388.0	1965.0	858.3	963.0	1158.6	1154.8	1050.9	976.0	900.3	887.3	889.6
57.5°	3365.9	1810.6	769.6	857.5	1034.8	1040.9	1021.8	965.3	870.5	866.7	870.5
60°	2924.1	1387.9	686.3	739.8	849.9	882.7	989.0	945.4	822.4	806.3	805.5
62.5°	1909.9	840.7	610.7	645.1	692.4	730.6	901.8	888.1	769.6	759.7	766.6
65°	1027.2	599.2	555.6	576.3	602.3	631.3	747.5	791.0	695.5	660.3	661.1
67.5°	525.1	509.8	514.4	528.9	548.8	563.3	603.0	641.2	593.1	563.3	562.5
70°	449.4	461.6	468.5	476.9	489.9	487.6	491.4	498.3	494.5	480.0	479.2
72.5°	382.9	402.0	403.5	405.1	409.7	399.0	392.1	380.6	381.4	383.7	384.4
75°	291.2	309.5	314.1	311.8	316.4	302.7	293.5	282.0	268.3	266.0	267.5
77.5°	189.5	204.1	210.9	209.4	211.7	201.0	196.4	184.2	168.1	162.0	162.0
80°	114.6	123.0	128.4	129.9	132.2	124.6	116.9	106.2	99.4	92.5	92.5
82.5°	69.5	74.9	78.7	78.7	81.0	72.6	66.5	58.8	55.8	49.7	49.7
85°	35.2	39.0	40.5	39.7	38.2	31.3	29.0	25.2	23.7	20.6	20.6
87.5°	8.4	10.7	10.7	7.6	7.6	3.8	2.3	0.8	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)