

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: P636731

Luminaire Tested: GWS-SA4B-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14163.9 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

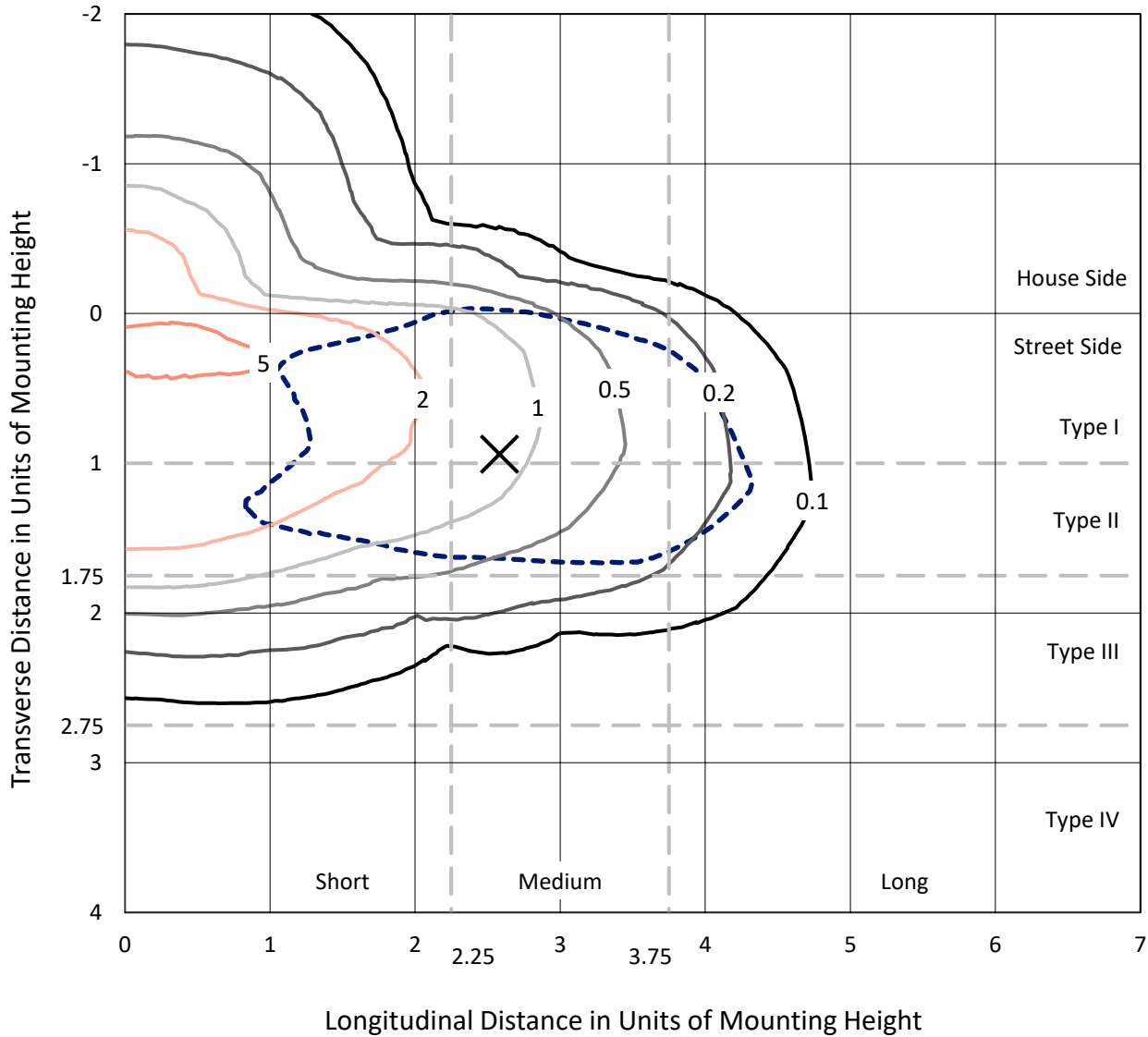
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

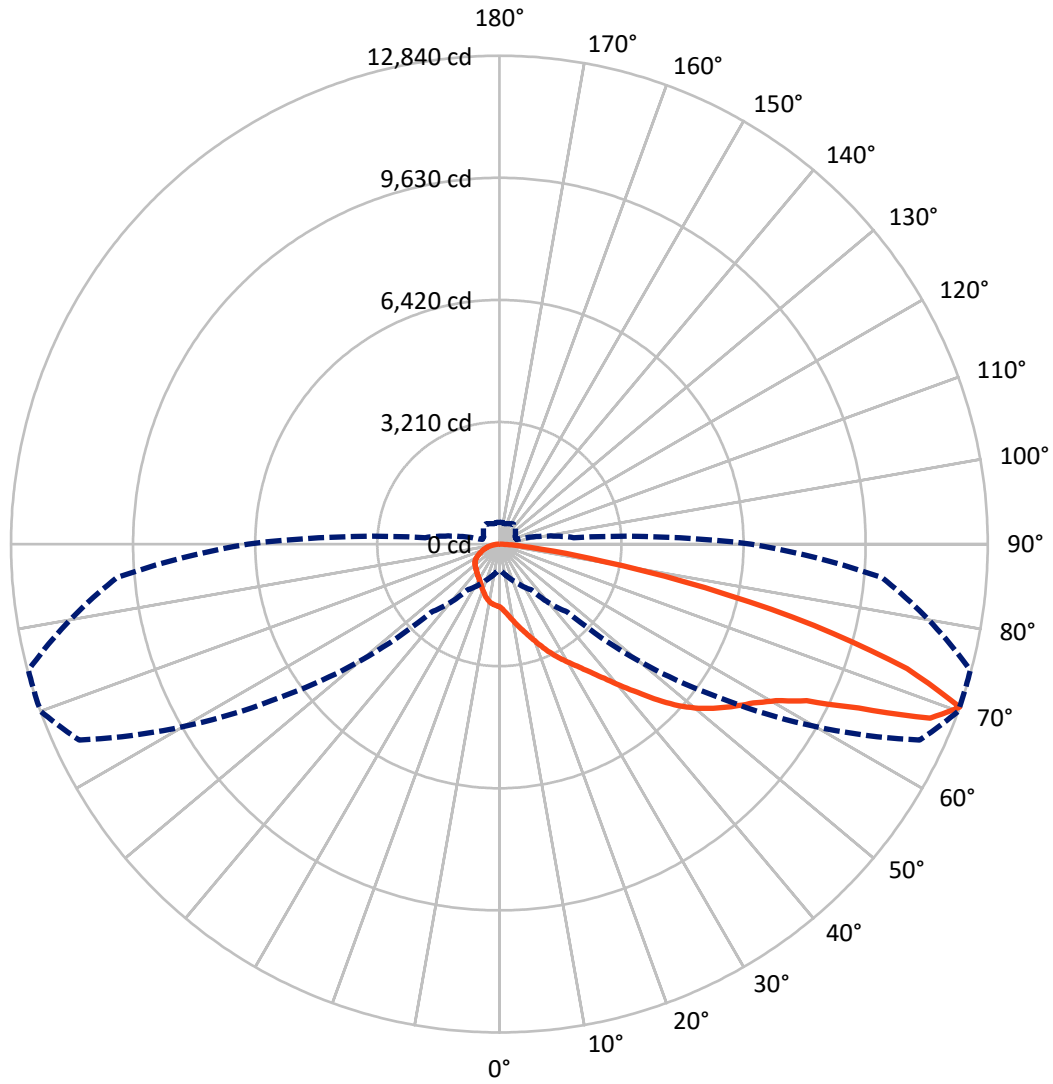
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2538.2	0.0	2538.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	11625.7	0.0	11625.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	14163.9	0.0	14163.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.2
10°-20°	546.1	3.9
20°-30°	967.5	6.8
30°-40°	1456.1	10.3
40°-50°	2202.9	15.6
50°-60°	3155.8	22.3
60°-70°	3488.4	24.6
70°-80°	1968.6	13.9
80°-90°	210.6	1.5
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°	14163.9	100.0
0°-180°	14163.9	100.0

Coefficient of Utilization



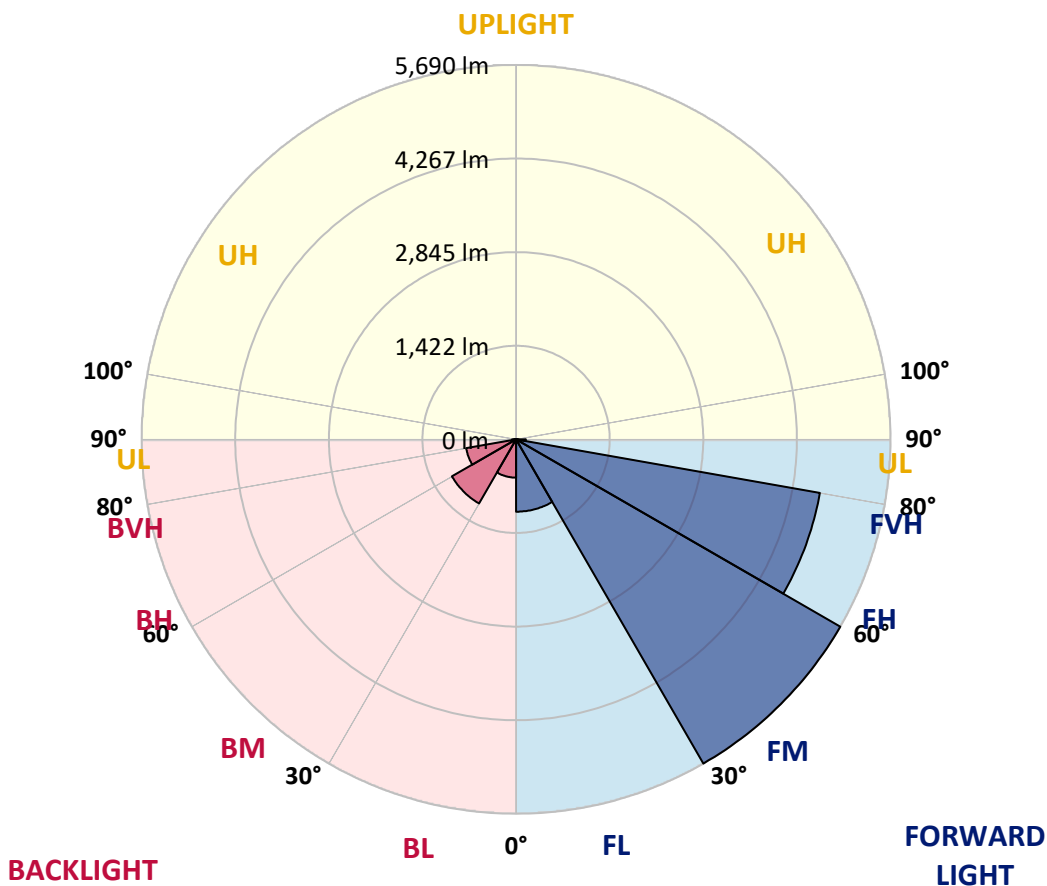
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.5	7.8			
FM (30°-60°)	5689.6	40.2			
FH (60°-80°)	4687.7	33.1			G2/5000
FVH (80°-90°)	148.9	1.1			G2/225
BL (0°-30°)	582.0	4.1	B2/1000		
BM (30°-60°)	1125.2	7.9	B2/2500		
BH (60°-80°)	769.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	61.7	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8
2.5°	1829.9	1826.8	1828.9	1826.8	1815.6	1787.9	1765.4	1736.7	1717.3	1706.0	1679.4
5°	2044.8	2041.7	2034.6	2024.3	2003.9	1966.0	1909.7	1847.3	1809.4	1780.8	1724.5
7.5°	2199.3	2199.3	2198.3	2186.0	2171.7	2131.8	2065.3	1983.4	1928.1	1879.0	1786.9
10°	2278.1	2283.3	2290.4	2307.8	2304.7	2283.3	2220.8	2132.8	2063.2	2005.9	1868.8
12.5°	2321.1	2324.2	2336.5	2372.3	2409.1	2414.3	2377.4	2285.3	2209.6	2132.8	1959.9
15°	2376.4	2377.4	2393.8	2436.8	2491.0	2545.3	2536.0	2443.9	2366.2	2281.2	2061.2
17.5°	2419.4	2426.5	2456.2	2506.4	2573.9	2648.6	2693.6	2636.3	2540.1	2442.9	2171.7
20°	2434.7	2439.8	2478.7	2555.5	2647.6	2753.0	2853.3	2838.0	2740.7	2626.1	2296.6
22.5°	2490.0	2490.0	2518.6	2583.1	2691.6	2845.1	3007.8	3047.8	2961.8	2827.7	2430.6
25°	2611.8	2607.7	2621.0	2647.6	2729.5	2918.8	3160.3	3280.1	3183.9	3033.4	2564.7
27.5°	2778.6	2776.5	2775.5	2779.6	2807.2	2983.3	3289.3	3497.0	3400.8	3230.9	2684.4
30°	2959.7	2953.6	2966.9	2954.6	2948.5	3060.0	3398.8	3691.5	3616.8	3426.4	2783.7
32.5°	3206.4	3195.1	3192.1	3152.1	3127.6	3179.8	3486.8	3912.5	3853.2	3637.2	2895.3
35°	3531.8	3521.6	3469.4	3406.0	3333.3	3357.8	3596.3	4128.5	4132.6	3901.3	3041.6
37.5°	3860.3	3862.4	3821.5	3672.0	3597.3	3583.0	3763.1	4391.5	4479.5	4216.5	3230.9
40°	4133.6	4145.9	4145.9	3988.3	3876.7	3863.4	3997.5	4703.7	4878.7	4603.4	3470.4
42.5°	4341.4	4352.6	4388.4	4274.8	4157.1	4203.2	4282.0	5016.8	5331.0	5081.3	3773.4
45°	4569.6	4578.8	4598.2	4532.7	4464.2	4587.0	4604.4	5391.4	5848.9	5617.6	4125.4
47.5°	4872.5	4864.3	4866.4	4818.3	4765.1	4963.6	4959.5	5706.6	6349.3	6205.0	4507.2
50°	5249.1	5264.5	5250.2	5155.0	5092.6	5273.7	5297.2	6055.6	6789.4	6786.3	4892.0
52.5°	5611.4	5617.6	5693.3	5697.4	5569.5	5531.6	5593.0	6407.6	7160.9	7318.5	5261.4
55°	5629.8	5653.4	5880.6	6044.3	6251.1	5947.1	5891.8	6743.3	7520.1	7839.4	5645.2
57.5°	5237.9	5275.7	5661.6	6014.7	6589.8	6660.4	6403.6	7177.3	7879.3	8352.2	6089.4
60°	4400.7	4479.5	5003.5	5543.9	6437.3	7173.2	7450.5	7766.8	8351.1	8876.1	6628.7
62.5°	2810.3	2841.0	3575.8	4480.5	5750.6	7123.0	8590.6	8805.5	9069.6	9558.8	7459.7
65°	1407.2	1505.5	1936.3	2674.2	4146.9	6276.7	9166.8	10708.1	10384.7	10727.5	8806.6
67.5°	954.9	986.6	1204.6	1606.8	2431.7	4446.8	8809.6	12310.8	12215.6	12271.9	10242.4
70°	704.1	724.6	896.5	1138.0	1470.7	2524.8	7013.5	12190.0	12839.9	12819.4	10092.0
72.5°	513.8	524.0	654.0	868.9	1089.9	1305.9	4283.0	9847.4	11208.5	11799.0	8826.0
75°	373.5	385.8	454.4	649.9	847.4	814.6	2114.4	7112.8	8547.6	9683.6	7190.6
77.5°	278.4	293.7	325.4	407.3	593.6	583.4	913.9	4618.7	5528.5	6324.8	4368.0
80°	200.6	203.7	222.1	261.0	376.6	341.8	435.0	2408.1	2761.2	3025.2	1712.2
82.5°	121.8	124.9	148.4	160.7	233.3	214.9	226.2	779.8	1117.6	1186.1	639.6
85°	35.8	37.9	67.5	73.7	97.2	92.1	91.1	317.3	378.7	484.1	251.8
87.5°	0.0	0.0	0.0	0.0	1.0	6.1	11.3	56.3	84.9	117.7	61.4
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°	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8
2.5°	1669.2	1645.7	1633.4	1611.9	1596.5	1581.2	1565.8	1551.5	1545.4	1536.2	1538.2
5°	1698.9	1662.0	1625.2	1583.2	1547.4	1517.7	1491.1	1467.6	1457.4	1448.1	1452.2
7.5°	1743.9	1688.6	1618.0	1541.3	1485.0	1444.0	1416.4	1400.0	1394.9	1387.8	1387.8
10°	1801.2	1718.3	1594.5	1485.0	1417.4	1384.7	1372.4	1371.4	1376.5	1377.5	1375.5
12.5°	1864.7	1747.0	1559.7	1418.5	1361.2	1350.9	1360.1	1377.5	1394.9	1404.1	1402.1
15°	1930.2	1765.4	1500.3	1355.0	1320.2	1333.5	1363.2	1398.0	1431.8	1449.2	1448.1
17.5°	1991.6	1769.5	1423.6	1293.6	1284.4	1318.2	1369.3	1423.6	1469.6	1494.2	1495.2
20°	2060.1	1762.3	1344.8	1238.3	1248.6	1303.8	1371.4	1436.9	1491.1	1515.7	1521.8
22.5°	2122.6	1737.8	1268.0	1186.1	1217.9	1286.4	1355.0	1416.4	1464.5	1488.1	1496.2
25°	2178.9	1690.7	1184.1	1142.1	1194.3	1261.9	1314.1	1357.1	1390.8	1405.2	1416.4
27.5°	2209.6	1620.1	1120.6	1107.3	1171.8	1227.1	1255.7	1269.0	1280.3	1276.2	1284.4
30°	2215.7	1532.1	1065.4	1079.7	1138.0	1179.0	1185.1	1171.8	1152.4	1120.6	1127.8
32.5°	2209.6	1430.7	1019.3	1050.0	1100.2	1124.7	1116.6	1081.8	1034.7	985.6	988.6
35°	2211.6	1328.4	981.5	1017.3	1056.2	1069.5	1049.0	1000.9	950.8	905.7	903.7
37.5°	2234.1	1242.4	949.7	985.6	1013.2	1015.2	992.7	942.6	917.0	883.2	879.1
40°	2296.6	1179.0	921.1	953.8	971.2	970.2	944.6	908.8	926.2	914.9	911.9
42.5°	2398.9	1140.1	897.5	920.1	932.3	934.4	913.9	891.4	929.3	914.9	909.8
45°	2563.7	1138.0	881.2	886.3	905.7	920.1	905.7	880.1	894.5	824.9	811.6
47.5°	2759.1	1172.8	868.9	856.6	890.4	916.0	893.4	852.5	822.8	759.4	750.2
50°	2994.5	1243.5	857.6	824.9	867.9	900.6	878.1	821.8	776.8	743.0	737.9
52.5°	3273.9	1336.6	843.3	789.1	834.1	892.4	878.1	818.7	759.4	728.7	723.6
55°	3566.6	1444.0	826.9	746.1	796.2	894.5	885.3	797.2	746.1	729.7	725.6
57.5°	3929.9	1573.0	797.2	695.9	762.4	876.0	856.6	785.0	736.9	723.6	719.5
60°	4401.7	1764.4	741.0	644.8	723.6	843.3	831.0	764.5	712.3	701.0	698.0
62.5°	5148.8	2088.8	672.4	595.6	677.5	774.7	793.2	725.6	681.6	680.6	679.6
65°	6366.7	2478.7	591.5	551.6	629.4	718.4	743.0	685.7	649.9	661.1	660.1
67.5°	7220.2	2512.5	525.0	505.6	573.1	657.0	692.9	644.8	605.9	627.4	626.3
70°	6613.4	1959.9	467.7	457.5	512.7	590.5	638.6	593.6	554.7	575.2	571.1
72.5°	5577.7	1502.4	413.5	407.3	451.3	520.9	569.0	542.4	501.5	501.5	492.3
75°	4482.6	1239.4	356.2	353.1	382.8	450.3	504.5	459.5	421.7	419.6	413.5
77.5°	2570.8	812.6	298.8	296.8	306.0	376.6	392.0	382.8	354.1	340.8	336.7
80°	1024.4	422.7	235.4	222.1	231.3	276.3	309.1	293.7	269.2	252.8	243.6
82.5°	397.1	211.8	165.8	145.3	158.6	199.6	224.1	219.0	202.6	165.8	155.6
85°	161.7	103.4	99.3	83.9	92.1	107.5	129.0	111.6	92.1	65.5	62.4
87.5°	43.0	37.9	36.8	22.5	17.4	5.1	1.0	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)