

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: P633293

Luminaire Tested: GWS-SA2E-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633293
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-SA2E-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13237 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

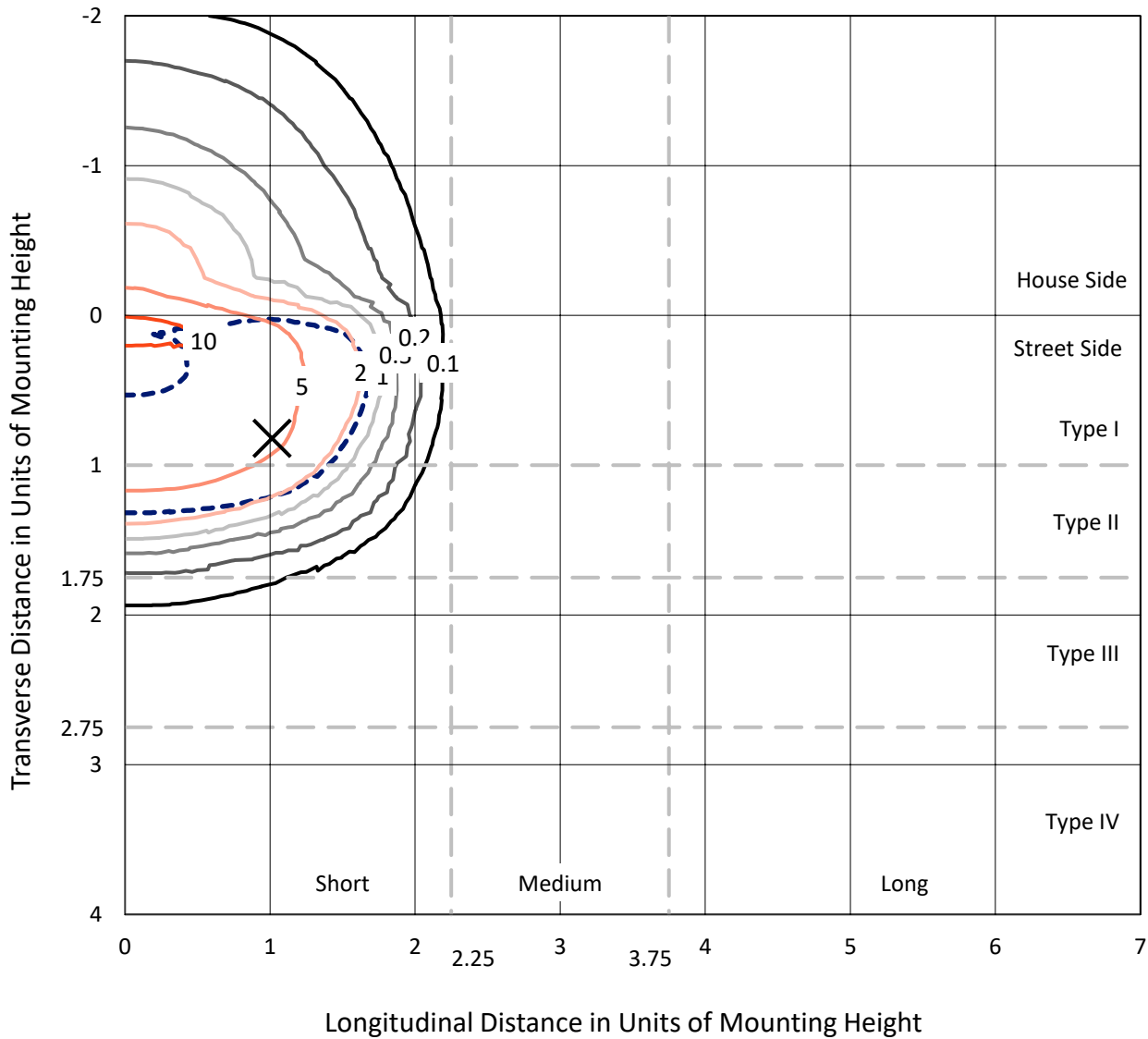
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

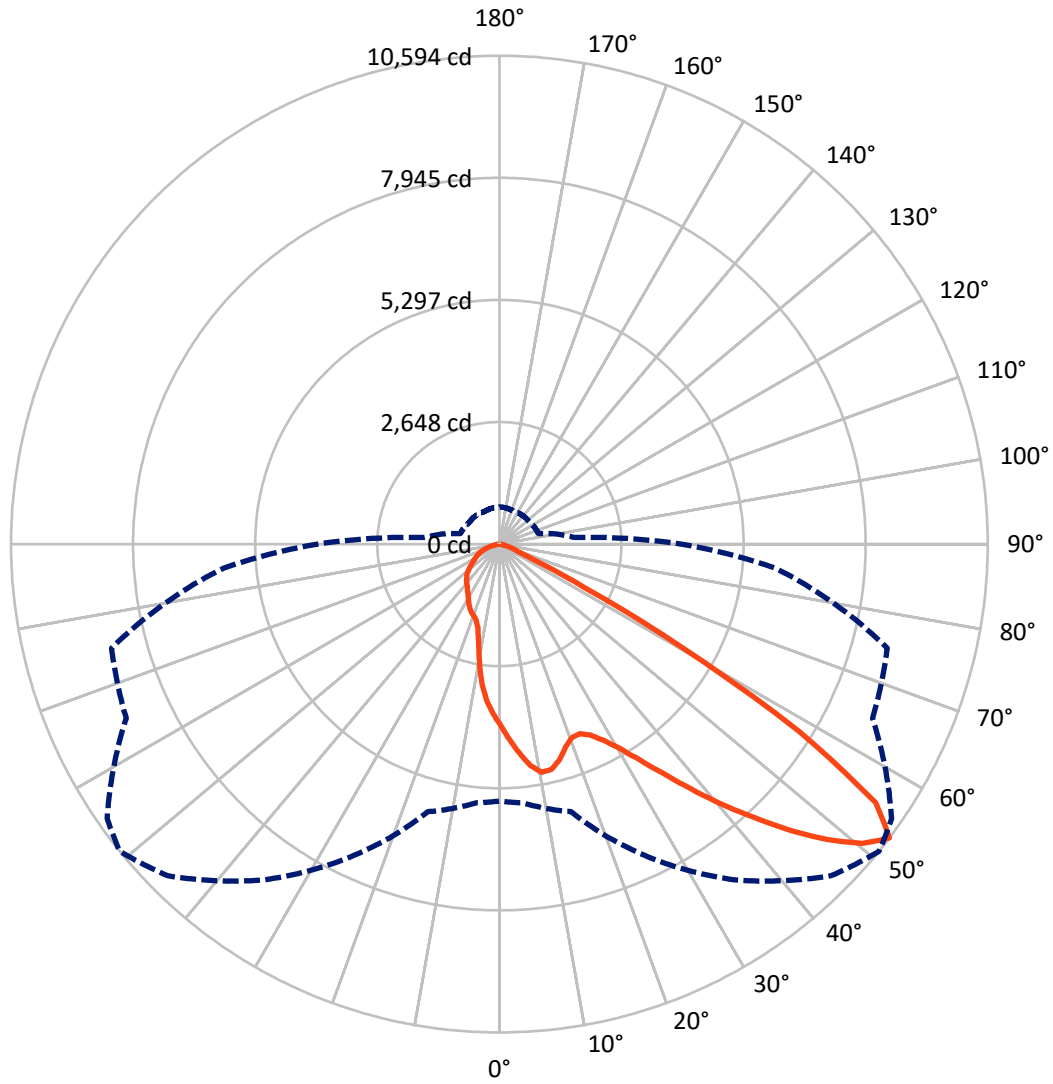
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12 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	2579.1	0.0	2579.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10657.9	0.0	10657.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	13237.0	0.0	13237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	2.8
10°-20°	955.6	7.2
20°-30°	1553.8	11.7
30°-40°	2462.4	18.6
40°-50°	3713.8	28.1
50°-60°	3212.8	24.3
60°-70°	728.4	5.5
70°-80°	214.8	1.6
80°-90°	27.7	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°	13237.0	100.0
0°-180°	13237.0	100.0

Coefficient of Utilization



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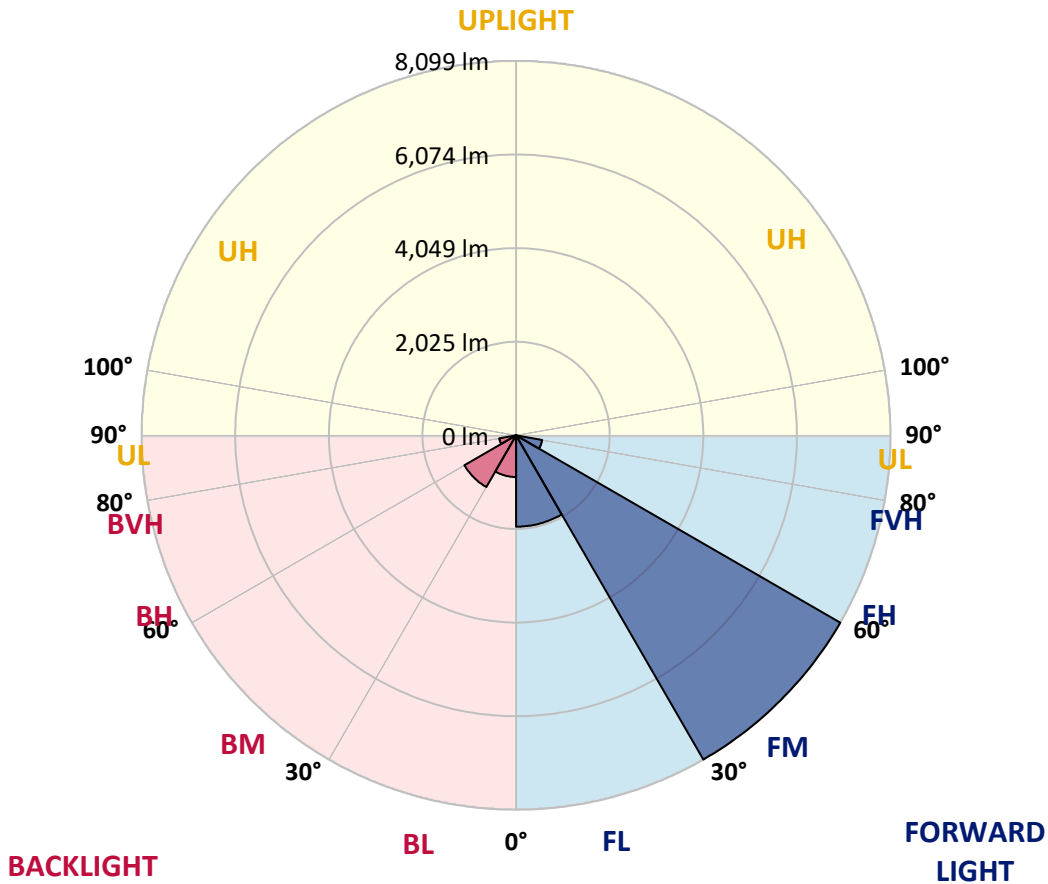
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1975.7	14.9			
FM (30°-60°)	8098.6	61.2			
FH (60°-80°)	573.2	4.3			G0/660
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	901.6	6.8	B2/1000		
BM (30°-60°)	1290.4	9.7	B2/2500		
BH (60°-80°)	369.9	2.8	B1/500		G1/500
BVH (80°-90°)	17.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3
2.5°	4392.1	4417.2	4378.5	4363.9	4339.8	4298.0	4249.9	4236.3	4132.7	4064.7	3988.4
5°	4833.6	4847.1	4815.8	4784.4	4724.8	4650.5	4557.4	4537.5	4349.3	4193.4	4031.3
7.5°	4931.9	4926.6	4953.8	4971.6	4964.3	4935.0	4852.4	4813.7	4588.8	4341.9	4102.4
10°	4542.8	4513.5	4613.9	4733.1	4876.4	5041.7	5032.3	5029.2	4833.6	4541.7	4193.4
12.5°	4027.1	4012.4	4094.0	4243.6	4514.5	4880.6	5017.6	5124.3	5054.3	4732.1	4294.9
15°	3732.1	3726.9	3782.3	3890.1	4105.5	4567.9	4860.7	5072.0	5243.6	4936.1	4402.6
17.5°	3678.8	3681.9	3700.7	3762.4	3917.3	4298.0	4636.9	4931.9	5391.1	5159.9	4537.5
20°	3834.6	3855.5	3823.1	3832.5	3916.2	4200.7	4484.2	4790.7	5485.2	5384.8	4682.9
22.5°	4180.8	4173.5	4102.4	4060.6	4061.6	4260.3	4467.5	4724.8	5546.9	5603.4	4814.7
25°	4573.1	4564.7	4480.0	4386.9	4328.3	4422.5	4587.7	4794.8	5602.4	5803.2	4920.4
27.5°	5036.5	5010.3	4916.2	4796.9	4667.2	4708.0	4820.0	4984.2	5688.1	5999.8	4990.4
30°	5485.2	5515.5	5380.6	5239.4	5102.4	5077.3	5142.1	5290.7	5862.8	6230.0	5074.1
32.5°	6080.4	6069.9	5920.3	5736.2	5540.6	5521.8	5573.1	5709.0	6176.6	6547.9	5201.7
35°	6801.1	6803.2	6590.8	6341.9	6063.6	6013.4	6099.2	6231.0	6644.2	6978.9	5403.6
37.5°	7550.0	7546.9	7361.7	7079.3	6699.6	6628.5	6726.8	6825.1	7228.9	7565.7	5717.4
40°	8075.1	8096.0	8009.2	7860.7	7500.8	7327.2	7414.0	7482.0	7864.8	8256.1	6130.6
42.5°	8373.2	8404.6	8423.4	8512.3	8323.0	8137.9	8106.5	8142.0	8432.8	8897.2	6518.7
45°	8437.0	8478.8	8615.9	8945.4	9018.6	8966.3	8863.8	8778.0	8856.5	9352.3	6772.8
47.5°	8155.6	8228.9	8521.7	9098.1	9525.9	9690.1	9576.1	9445.3	9101.2	9469.4	6746.7
50°	7040.6	7126.4	7786.4	8786.4	9598.1	10196.4	10206.8	10013.3	9071.9	9131.6	6418.2
52.5°	5574.1	5632.7	6010.3	7448.5	8889.9	10175.5	10593.9	10386.7	8930.7	8709.0	6007.2
55°	3331.5	3425.6	3778.1	4914.1	6925.5	9018.6	9909.8	10010.2	8861.7	8354.4	5726.8
57.5°	1124.4	1170.5	1507.3	2170.4	4081.5	6603.4	7656.7	8064.6	8044.8	7812.5	5179.8
60°	535.6	546.0	614.0	823.2	1633.8	3450.7	4532.3	5003.0	5431.9	5474.7	3222.7
62.5°	407.9	414.2	448.7	493.7	656.9	1453.9	2077.3	2437.2	2603.5	2234.2	1173.6
65°	341.0	346.2	372.4	400.6	446.6	629.7	797.0	919.4	828.4	645.4	559.6
67.5°	284.5	288.7	308.6	338.9	370.3	421.5	442.5	455.0	477.0	535.6	514.6
70°	222.8	227.0	247.9	274.1	304.4	316.9	336.8	349.4	393.3	468.6	466.5
72.5°	171.5	176.8	188.3	205.0	230.1	242.7	264.6	279.3	304.4	365.1	390.2
75°	125.5	128.7	139.1	144.3	147.5	144.3	166.3	183.0	216.5	239.5	245.8
77.5°	51.3	57.5	55.4	55.4	65.9	79.5	91.0	101.5	124.5	138.1	139.1
80°	20.9	23.0	27.2	30.3	36.6	47.1	54.4	58.6	69.0	77.4	83.7
82.5°	12.6	13.6	15.7	16.7	20.9	27.2	31.4	34.5	42.9	51.3	54.4
85°	6.3	6.3	7.3	8.4	10.5	12.6	14.6	16.7	22.0	27.2	30.3
87.5°	1.0	1.0	1.0	2.1	3.1	4.2	5.2	6.3	7.3	8.4	10.5
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°	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3
2.5°	3943.4	3886.9	3821.0	3768.7	3708.1	3663.1	3599.3	3559.5	3521.9	3490.5	3467.5
5°	3947.6	3852.4	3715.4	3594.0	3468.5	3349.3	3226.9	3127.5	3038.6	2964.4	2958.1
7.5°	3971.6	3834.6	3620.2	3407.9	3163.1	2926.7	2690.3	2497.8	2351.4	2275.0	2259.4
10°	4012.4	3832.5	3522.9	3184.0	2766.7	2385.9	2105.6	1959.2	1874.4	1844.1	1833.6
12.5°	4055.3	3827.3	3398.4	2868.1	2288.6	1955.0	1801.2	1783.4	1799.1	1801.2	1800.2
15°	4107.6	3824.2	3241.5	2497.8	1939.3	1755.2	1765.6	1803.3	1839.9	1848.3	1848.3
17.5°	4171.4	3816.8	3028.2	2135.9	1720.7	1716.5	1771.9	1822.1	1856.6	1862.9	1862.9
20°	4238.4	3798.0	2765.6	1841.0	1631.8	1692.4	1752.0	1790.7	1814.8	1823.2	1824.2
22.5°	4284.4	3747.8	2463.3	1622.3	1576.3	1646.4	1689.3	1729.0	1729.0	1708.1	1701.8
25°	4293.8	3640.1	2135.9	1472.8	1510.4	1575.3	1619.2	1596.2	1553.3	1536.6	1535.5
27.5°	4259.3	3483.2	1812.7	1366.1	1430.9	1495.8	1488.5	1455.0	1436.2	1419.4	1425.7
30°	4217.5	3294.9	1532.4	1278.2	1338.9	1402.7	1377.6	1366.1	1352.5	1333.6	1337.8
32.5°	4189.2	3084.6	1316.9	1210.2	1277.2	1287.6	1305.4	1304.4	1291.8	1256.2	1254.1
35°	4197.6	2872.3	1172.6	1154.8	1225.9	1221.7	1255.2	1248.9	1162.1	1112.9	1109.8
37.5°	4264.5	2668.3	1087.8	1110.8	1144.3	1170.5	1199.8	1124.4	1094.1	1062.7	1064.8
40°	4392.1	2479.0	1041.8	1086.8	1095.2	1133.9	1065.9	1064.8	1051.2	1023.0	1021.9
42.5°	4536.5	2319.0	1010.4	1075.3	1063.8	1071.1	998.9	1007.3	1006.2	988.5	983.2
45°	4624.4	2171.5	985.3	1032.4	1035.5	962.3	940.4	949.8	955.0	945.6	944.5
47.5°	4533.3	2002.0	959.2	966.5	993.7	913.2	886.0	887.0	896.4	897.5	893.3
50°	4278.1	1812.7	927.8	910.0	892.2	861.9	836.8	831.6	841.0	850.4	853.5
52.5°	3948.6	1631.8	875.5	848.3	806.5	806.5	795.0	778.2	790.8	803.3	807.5
55°	3707.0	1497.9	801.2	770.9	724.9	740.6	738.5	723.8	740.6	750.0	753.1
57.5°	3212.3	1203.9	705.0	695.6	656.9	675.7	679.9	661.1	652.7	654.8	657.9
60°	1906.9	777.2	636.0	634.9	600.4	622.4	634.9	616.1	591.0	594.1	598.3
62.5°	855.6	594.1	549.1	545.0	543.9	572.2	585.8	568.0	532.4	535.6	539.7
65°	538.7	513.6	477.0	477.0	493.7	517.8	528.2	513.6	472.8	467.6	471.7
67.5°	500.0	478.0	440.4	433.0	441.4	461.3	462.3	434.1	410.0	405.8	405.8
70°	448.7	432.0	395.4	380.7	377.6	376.6	373.4	366.1	350.4	346.2	348.3
72.5°	371.3	359.8	336.8	321.1	312.8	311.7	299.2	292.9	279.3	277.2	276.1
75°	245.8	248.9	248.9	246.9	239.5	236.4	222.8	216.5	200.8	194.6	193.5
77.5°	145.4	148.5	152.7	153.8	152.7	152.7	140.2	132.8	117.2	108.8	106.7
80°	88.9	91.0	93.1	96.2	92.0	88.9	77.4	70.1	62.8	57.5	56.5
82.5°	57.5	59.6	60.7	62.8	60.7	56.5	47.1	42.9	37.7	33.5	32.4
85°	32.4	33.5	35.6	35.6	32.4	29.3	24.1	20.9	17.8	15.7	15.7
87.5°	11.5	11.5	11.5	12.6	10.5	9.4	6.3	4.2	3.1	3.1	3.1
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)