

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: P637033

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637033
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-SA4C-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 12971.6 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

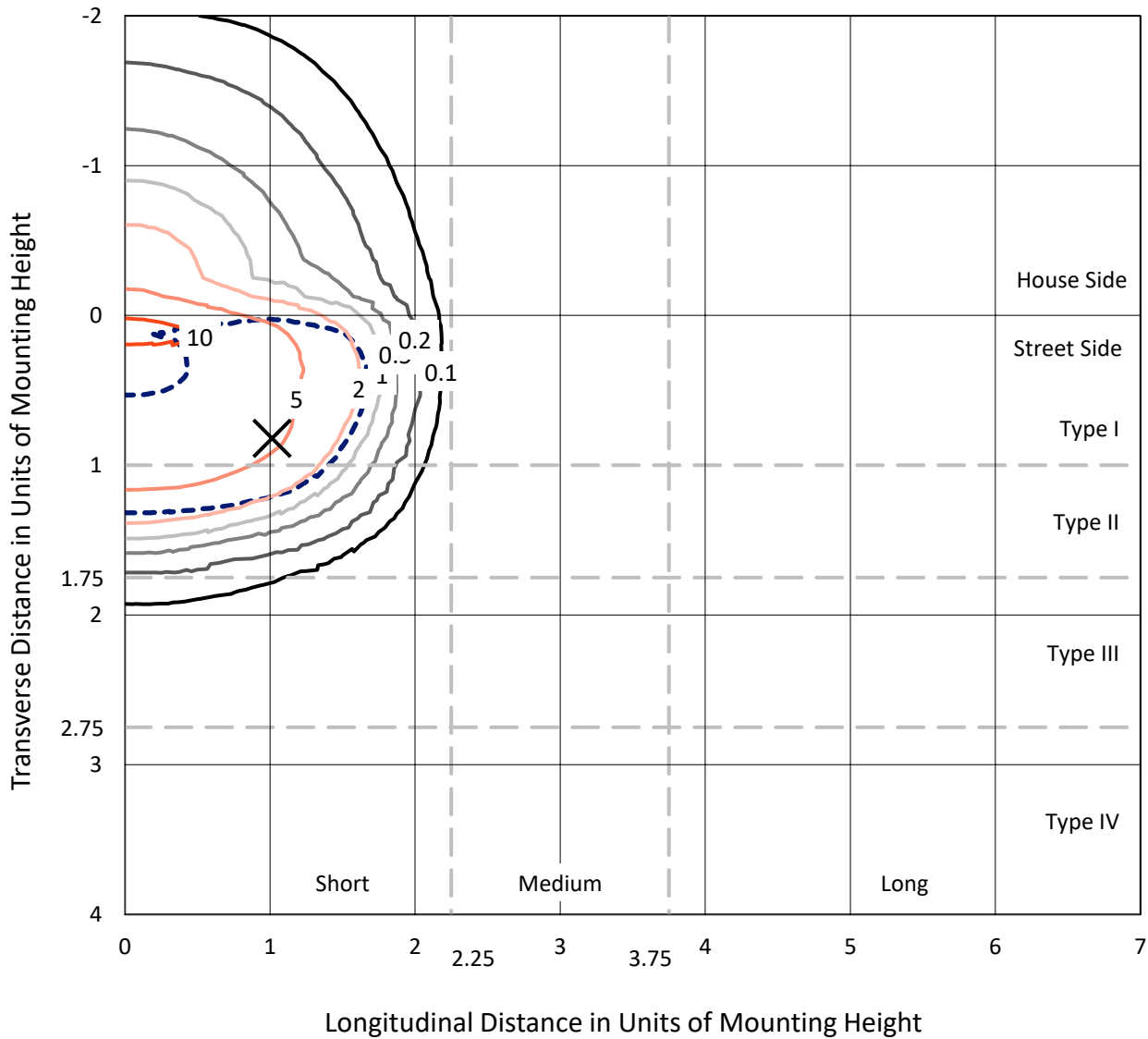
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

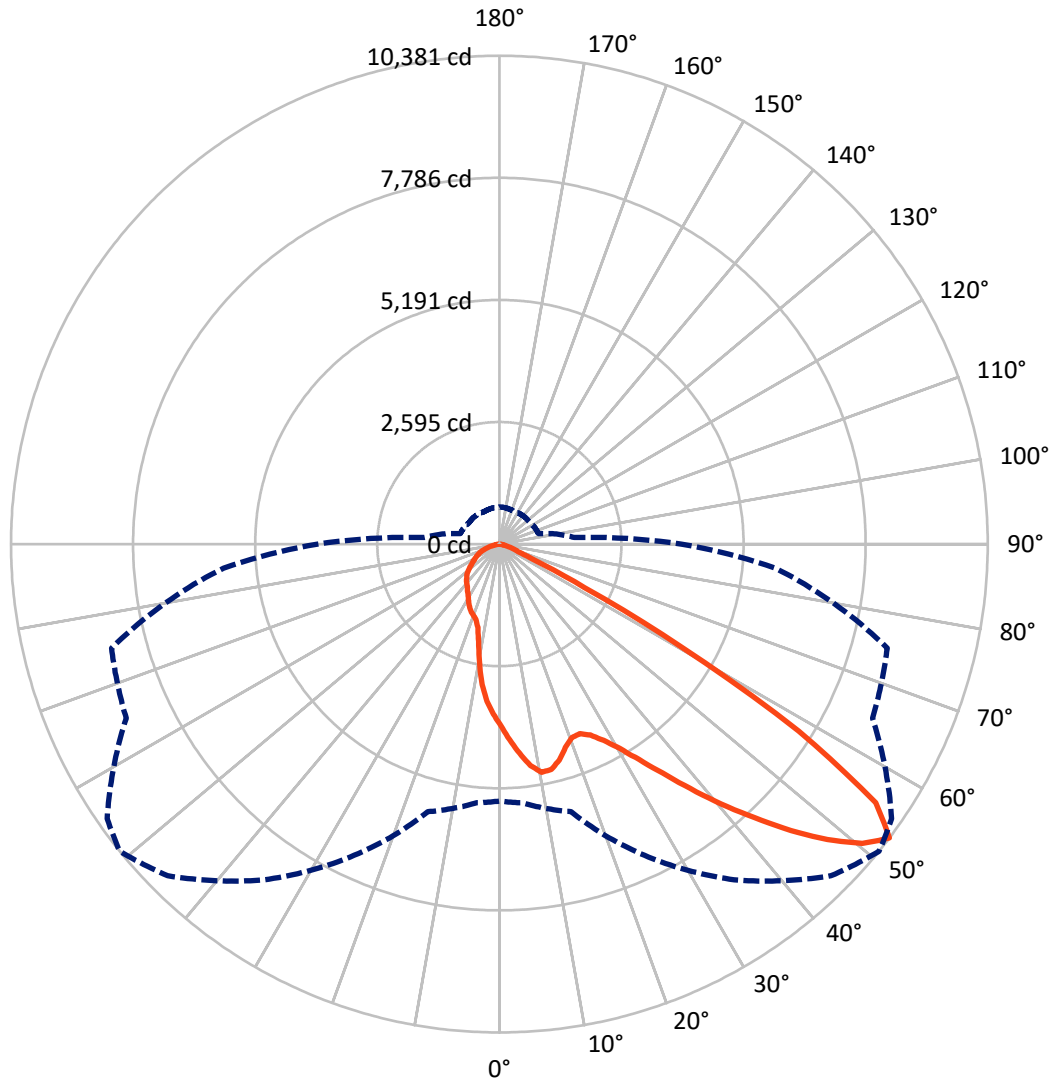
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.8 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	2527.4	0.0	2527.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10444.2	0.0	10444.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	12971.6	0.0	12971.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	2.8
10°-20°	936.5	7.2
20°-30°	1522.6	11.7
30°-40°	2413.0	18.6
40°-50°	3639.4	28.1
50°-60°	3148.3	24.3
60°-70°	713.8	5.5
70°-80°	210.5	1.6
80°-90°	27.1	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°	12971.6	100.0
0°-180°	12971.6	100.0

Coefficient of Utilization



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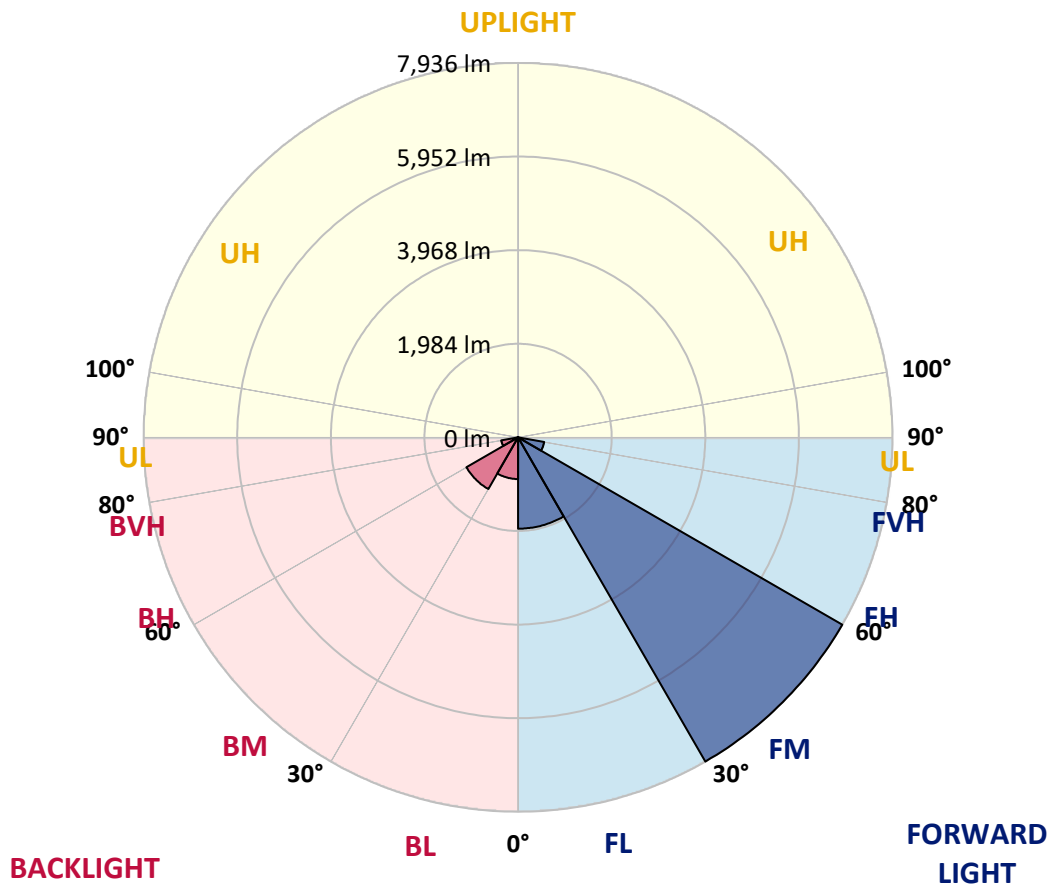
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.0	14.9			
FM (30°-60°)	7936.2	61.2			
FH (60°-80°)	561.7	4.3			G0/660
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	883.5	6.8	B2/1000		
BM (30°-60°)	1264.5	9.7	B2/2500		
BH (60°-80°)	362.5	2.8	B1/500		G1/500
BVH (80°-90°)	16.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

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°	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3
2.5°	4304.1	4328.7	4290.8	4276.4	4252.8	4211.8	4164.7	4151.3	4049.9	3983.2	3908.4
5°	4736.6	4750.0	4719.2	4688.5	4630.0	4557.3	4466.0	4446.6	4262.1	4109.3	3950.4
7.5°	4833.0	4827.9	4854.5	4871.9	4864.8	4836.1	4755.1	4717.2	4496.8	4254.9	4020.1
10°	4451.7	4423.0	4521.4	4638.2	4778.7	4940.6	4931.4	4928.3	4736.6	4450.7	4109.3
12.5°	3946.3	3932.0	4011.9	4158.5	4424.0	4782.8	4917.0	5021.6	4952.9	4637.2	4208.8
15°	3657.3	3652.2	3706.5	3812.1	4023.2	4476.3	4763.3	4970.3	5138.4	4837.1	4314.3
17.5°	3605.0	3608.1	3626.5	3687.0	3838.7	4211.8	4543.9	4833.0	5283.0	5056.4	4446.6
20°	3757.7	3778.2	3746.5	3755.7	3837.7	4116.5	4394.3	4694.6	5375.2	5276.8	4589.0
22.5°	4097.0	4089.8	4020.1	3979.1	3980.2	4174.9	4377.9	4630.0	5435.7	5491.1	4718.2
25°	4481.4	4473.2	4390.2	4299.0	4241.6	4333.8	4495.8	4698.7	5490.0	5686.8	4821.7
27.5°	4935.5	4909.9	4817.6	4700.8	4573.7	4613.6	4723.3	4884.2	5574.1	5879.5	4890.4
30°	5375.2	5405.0	5272.7	5134.3	5000.1	4975.5	5039.0	5184.6	5745.3	6105.0	4972.4
32.5°	5958.5	5948.2	5801.6	5621.2	5429.6	5411.1	5461.3	5594.6	6052.8	6416.7	5097.4
35°	6664.7	6666.8	6458.7	6214.7	5942.1	5892.9	5976.9	6106.1	6511.0	6839.0	5295.3
37.5°	7398.6	7395.6	7214.1	6937.4	6565.3	6495.6	6591.9	6688.3	7083.9	7414.0	5602.8
40°	7913.2	7933.7	7848.6	7703.1	7350.5	7180.3	7265.4	7332.0	7707.2	8090.5	6007.7
42.5°	8205.3	8236.1	8254.5	8341.6	8156.1	7974.7	7943.9	7978.8	8263.7	8718.9	6388.0
45°	8267.8	8308.8	8443.1	8766.0	8837.8	8786.5	8686.1	8602.0	8678.9	9164.7	6637.0
47.5°	7992.1	8063.9	8350.9	8915.7	9334.9	9495.8	9384.1	9256.0	8918.7	9279.5	6611.4
50°	6899.4	6983.5	7630.3	8610.2	9405.6	9991.9	10002.2	9812.6	8890.0	8948.5	6289.6
52.5°	5462.4	5519.8	5889.8	7299.2	8711.7	9971.4	10381.4	10178.5	8751.7	8534.4	5886.7
55°	3264.7	3357.0	3702.4	4815.6	6786.7	8837.8	9711.1	9809.5	8684.0	8186.9	5612.0
57.5°	1101.9	1147.0	1477.1	2126.9	3999.6	6471.0	7503.2	7902.9	7883.5	7655.9	5075.9
60°	524.8	535.1	601.7	806.7	1601.1	3381.6	4441.4	4902.7	5323.0	5365.0	3158.1
62.5°	399.8	405.9	439.7	483.8	643.7	1424.8	2035.7	2388.3	2551.3	2189.5	1150.1
65°	334.2	339.3	364.9	392.6	437.7	617.1	781.1	901.0	811.8	632.4	548.4
67.5°	278.8	282.9	302.4	332.1	362.9	413.1	433.6	445.9	467.4	524.8	504.3
70°	218.3	222.4	242.9	268.6	298.3	310.6	330.1	342.4	385.4	459.2	457.2
72.5°	168.1	173.2	184.5	200.9	225.5	237.8	259.3	273.7	298.3	357.7	382.3
75°	123.0	126.1	136.3	141.5	144.5	141.5	163.0	179.4	212.2	234.7	240.9
77.5°	50.2	56.4	54.3	54.3	64.6	77.9	89.2	99.4	122.0	135.3	136.3
80°	20.5	22.6	26.7	29.7	35.9	46.1	53.3	57.4	67.7	75.9	82.0
82.5°	12.3	13.3	15.4	16.4	20.5	26.7	30.8	33.8	42.0	50.2	53.3
85°	6.2	6.2	7.2	8.2	10.3	12.3	14.4	16.4	21.5	26.7	29.7
87.5°	1.0	1.0	1.0	2.1	3.1	4.1	5.1	6.2	7.2	8.2	10.3
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°	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3	3862.3
2.5°	3864.3	3809.0	3744.4	3693.2	3633.7	3589.6	3527.1	3488.2	3451.3	3420.5	3398.0
5°	3868.4	3775.2	3640.9	3522.0	3399.0	3282.1	3162.2	3064.8	2977.7	2904.9	2898.8
7.5°	3892.0	3757.7	3547.6	3339.5	3099.7	2868.0	2636.4	2447.8	2304.3	2229.4	2214.1
10°	3932.0	3755.7	3452.3	3120.2	2711.2	2338.1	2063.4	1919.9	1836.8	1807.1	1796.9
12.5°	3974.0	3750.6	3330.3	2810.6	2242.8	1915.8	1765.1	1747.7	1763.0	1765.1	1764.1
15°	4025.3	3747.5	3176.6	2447.8	1900.4	1720.0	1730.2	1767.1	1803.0	1811.2	1811.2
17.5°	4087.8	3740.3	2967.4	2093.1	1686.2	1682.1	1736.4	1785.6	1819.4	1825.6	1825.6
20°	4153.4	3721.9	2710.2	1804.0	1599.0	1658.5	1716.9	1754.8	1778.4	1786.6	1787.6
22.5°	4198.5	3672.7	2413.9	1589.8	1544.7	1613.4	1655.4	1694.4	1694.4	1673.9	1667.7
25°	4207.7	3567.1	2093.1	1443.2	1480.1	1543.7	1586.7	1564.2	1522.2	1505.8	1504.7
27.5°	4173.9	3413.3	1776.4	1338.7	1402.2	1465.8	1458.6	1425.8	1407.4	1391.0	1397.1
30°	4132.9	3228.8	1501.7	1252.6	1312.0	1374.6	1350.0	1338.7	1325.4	1306.9	1311.0
32.5°	4105.2	3022.8	1290.5	1186.0	1251.6	1261.8	1279.2	1278.2	1265.9	1231.1	1229.0
35°	4113.4	2814.7	1149.1	1131.6	1201.3	1197.2	1230.0	1223.9	1138.8	1090.6	1087.6
37.5°	4179.0	2614.8	1066.0	1088.6	1121.4	1147.0	1175.7	1101.9	1072.2	1041.4	1043.5
40°	4304.1	2429.3	1020.9	1065.0	1073.2	1111.1	1044.5	1043.5	1030.1	1002.5	1001.4
42.5°	4445.5	2272.5	990.2	1053.7	1042.4	1049.6	978.9	987.1	986.1	968.6	963.5
45°	4531.6	2128.0	965.6	1011.7	1014.8	943.0	921.5	930.7	935.8	926.6	925.6
47.5°	4442.5	1961.9	939.9	947.1	973.8	894.8	868.2	869.2	878.4	879.5	875.4
50°	4192.4	1776.4	909.2	891.8	874.3	844.6	820.0	814.9	824.1	833.3	836.4
52.5°	3869.5	1599.0	857.9	831.3	790.3	790.3	779.0	762.6	774.9	787.2	791.3
55°	3632.7	1467.8	785.2	755.4	710.3	725.7	723.7	709.3	725.7	734.9	738.0
57.5°	3147.9	1179.8	690.9	681.6	643.7	662.2	666.3	647.8	639.6	641.7	644.7
60°	1868.6	761.6	623.2	622.2	588.4	609.9	622.2	603.7	579.1	582.2	586.3
62.5°	838.5	582.2	538.1	534.0	533.0	560.7	574.0	556.6	521.7	524.8	528.9
65°	527.9	503.3	467.4	467.4	483.8	507.4	517.6	503.3	463.3	458.2	462.3
67.5°	490.0	468.4	431.5	424.4	432.6	452.0	453.1	425.4	401.8	397.7	397.7
70°	439.7	423.3	387.5	373.1	370.0	369.0	365.9	358.8	343.4	339.3	341.3
72.5°	363.9	352.6	330.1	314.7	306.5	305.5	293.2	287.0	273.7	271.6	270.6
75°	240.9	244.0	244.0	241.9	234.7	231.7	218.3	212.2	196.8	190.7	189.6
77.5°	142.5	145.6	149.7	150.7	149.7	149.7	137.4	130.2	114.8	106.6	104.6
80°	87.1	89.2	91.2	94.3	90.2	87.1	75.9	68.7	61.5	56.4	55.4
82.5°	56.4	58.4	59.5	61.5	59.5	55.4	46.1	42.0	36.9	32.8	31.8
85°	31.8	32.8	34.9	34.9	31.8	28.7	23.6	20.5	17.4	15.4	15.4
87.5°	11.3	11.3	11.3	12.3	10.3	9.2	6.2	4.1	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)