

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: P637365

Luminaire Tested: GWS-SA4C-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19943 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

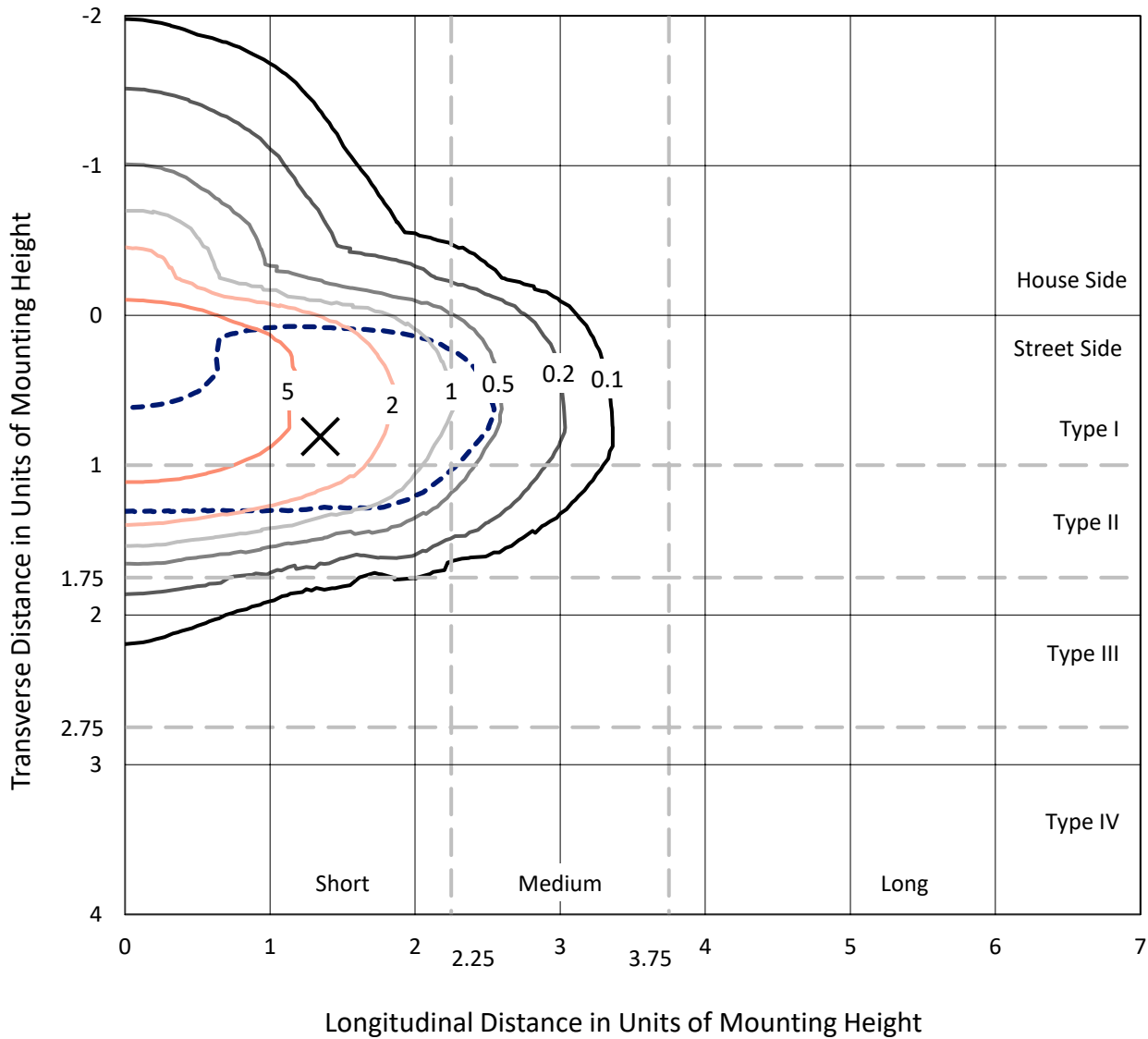
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

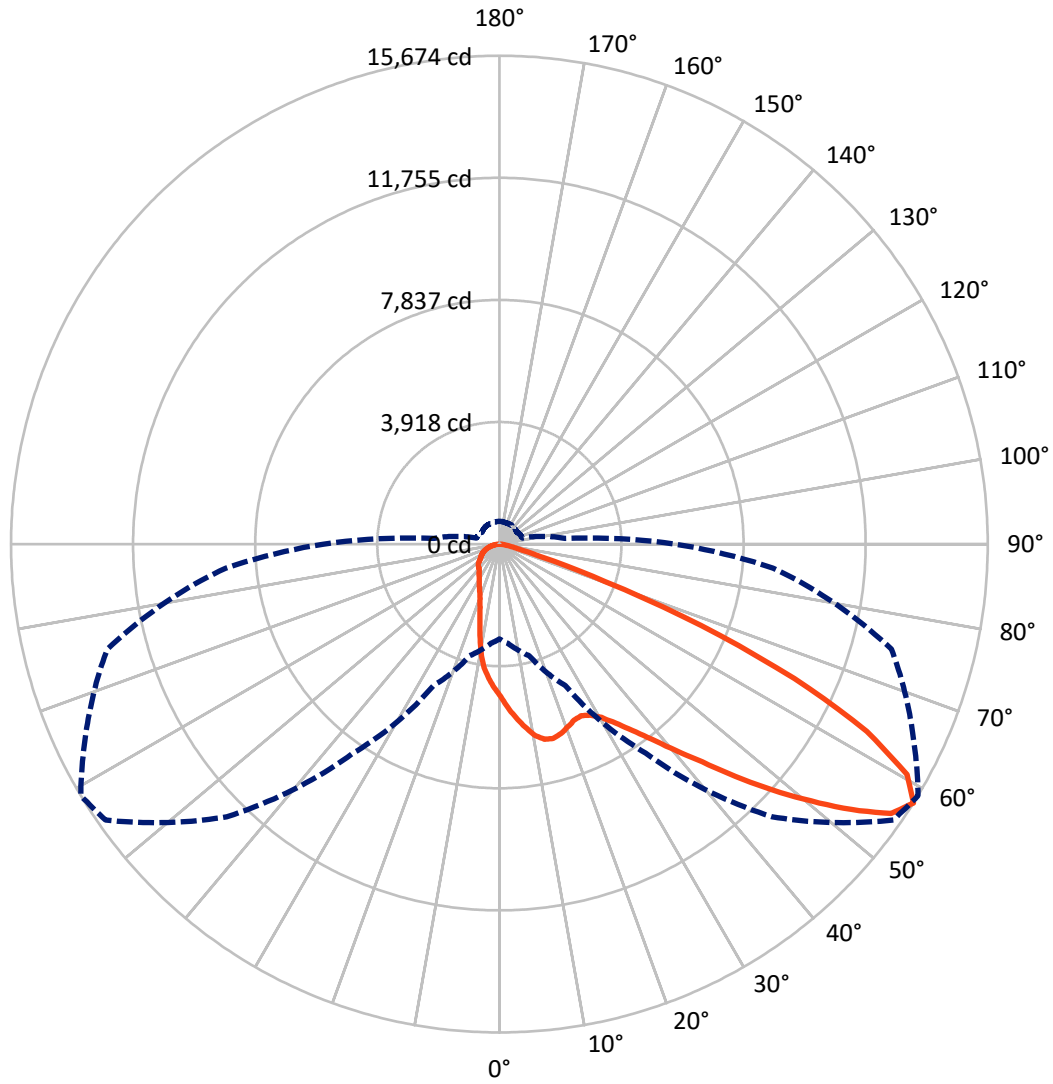
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3095.1	0.0	3095.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	16847.9	0.0	16847.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	19943.0	0.0	19943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.6	2.3
10°-20°	1151.9	5.8
20°-30°	1867.2	9.4
30°-40°	3003.6	15.1
40°-50°	4664.3	23.4
50°-60°	5024.1	25.2
60°-70°	2915.8	14.6
70°-80°	761.2	3.8
80°-90°	100.3	0.5
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°	19943.0	100.0
0°-180°	19943.0	100.0

Coefficient of Utilization



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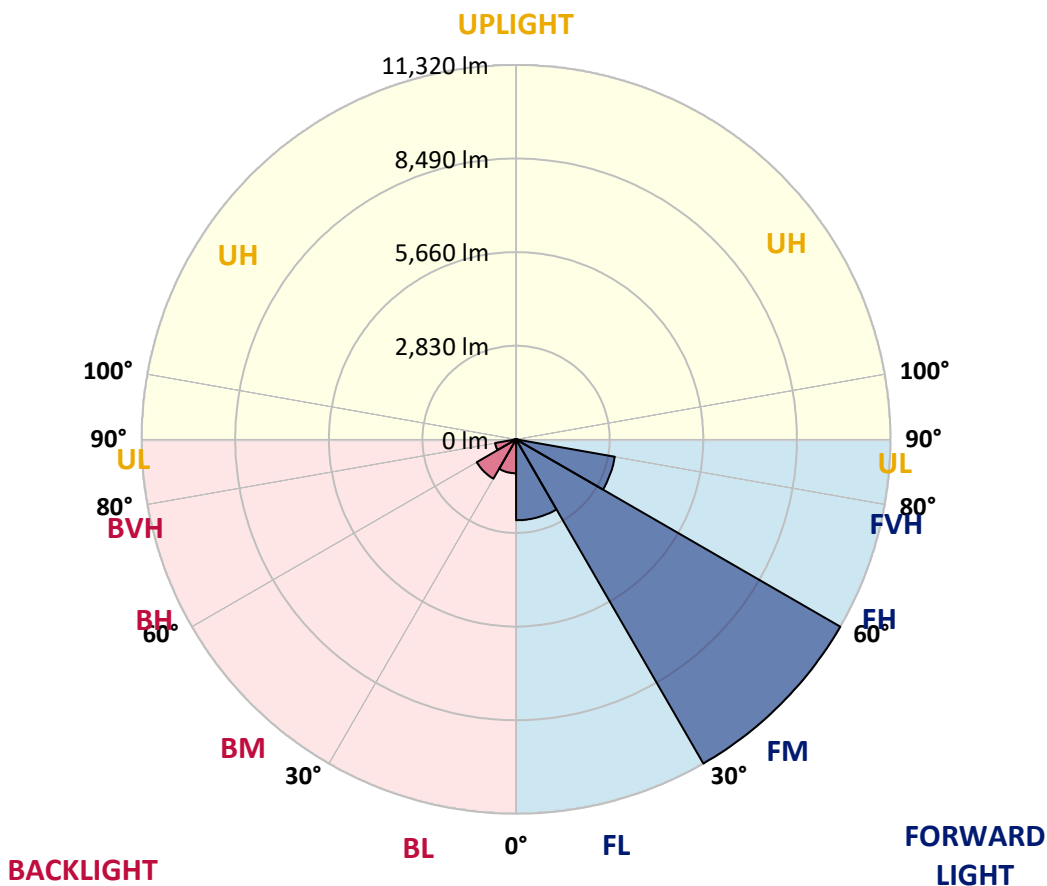
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2446.8	12.3			
FM (30°-60°)	11319.9	56.8			
FH (60°-80°)	3033.2	15.2			G2/5000
FVH (80°-90°)	48.0	0.2			G1/100
BL (0°-30°)	1026.8	5.1	B3/2500		
BM (30°-60°)	1372.2	6.9	B2/2500		
BH (60°-80°)	643.8	3.2	B2/1000		G2/1000
BVH (80°-90°)	52.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6
2.5°	5552.7	5506.3	5538.6	5481.1	5457.2	5394.0	5312.6	5257.8	5173.6	5064.1	4968.6
5°	6104.4	6072.1	6079.1	6017.4	5962.6	5857.3	5690.2	5597.6	5454.4	5234.0	5029.0
7.5°	6087.6	6125.5	6146.5	6199.9	6215.3	6205.5	6055.3	5926.1	5768.9	5437.5	5128.7
10°	5457.2	5528.8	5593.4	5775.9	5997.7	6278.5	6313.6	6236.4	6077.7	5697.3	5248.0
12.5°	4770.7	4825.4	4883.0	5102.0	5441.7	6003.3	6383.8	6431.5	6368.4	5954.2	5382.8
15°	4433.7	4459.0	4513.7	4658.3	4929.3	5552.7	6261.7	6470.9	6584.6	6226.6	5534.4
17.5°	4419.7	4430.9	4457.6	4534.8	4722.9	5204.5	6041.2	6392.2	6754.5	6514.4	5711.3
20°	4710.3	4680.8	4664.0	4662.6	4755.2	5088.0	5827.8	6265.9	6834.5	6809.2	5900.8
22.5°	5113.2	5123.0	5086.5	4996.7	4985.5	5170.8	5721.1	6138.1	6858.3	7070.3	6076.3
25°	5684.6	5733.8	5625.7	5454.4	5370.1	5410.9	5787.1	6098.8	6855.5	7288.0	6185.8
27.5°	6351.5	6389.4	6279.9	6055.3	5881.2	5782.9	5983.7	6215.3	6879.4	7476.1	6251.8
30°	7111.1	7123.7	6973.5	6737.6	6483.5	6272.9	6310.8	6455.4	7001.5	7723.2	6329.1
32.5°	8039.1	8092.4	7865.0	7491.5	7136.3	6866.8	6750.2	6842.9	7265.5	8015.2	6448.4
35°	9217.0	9235.2	8946.0	8411.1	7908.5	7535.1	7290.8	7339.9	7667.0	8423.8	6628.1
37.5°	10327.5	10345.8	10038.3	9541.3	8822.5	8311.4	7957.6	7935.2	8180.9	9000.8	6921.5
40°	11032.3	11084.3	10946.7	10635.0	9948.5	9259.1	8779.0	8701.7	8854.8	9707.0	7330.1
42.5°	11411.4	11433.8	11431.0	11471.8	11063.2	10378.1	9705.6	9551.1	9653.6	10469.3	7742.8
45°	11414.2	11470.4	11620.6	12012.3	12030.5	11603.7	10876.5	10635.0	10540.9	11237.3	8173.9
47.5°	10903.2	10963.5	11376.3	12147.1	12715.7	12812.5	12279.0	11794.7	11398.7	11898.6	8527.7
50°	9356.0	9507.6	10293.8	11657.1	12850.4	13781.3	13617.0	12960.0	12161.1	12409.6	8749.5
52.5°	8012.4	8006.8	8491.1	10272.8	12287.5	14208.1	14911.5	14158.9	12915.0	12733.9	8805.6
55°	5867.1	5899.4	6395.0	7856.6	10785.2	13795.3	15623.3	15262.4	13779.9	12906.6	8783.2
57.5°	3042.4	3202.4	3710.7	5013.5	8194.9	12374.5	15433.7	15673.8	14658.7	13028.7	8812.7
60°	1537.3	1506.4	1689.0	2393.8	4748.2	9664.9	14265.6	15030.8	14817.4	13124.2	8830.9
62.5°	1026.3	1017.9	967.3	1109.1	1940.3	5723.9	12161.1	13233.7	13715.3	12899.6	8597.8
65°	888.7	871.9	779.2	773.6	942.1	2374.1	8913.7	10403.3	11335.6	11901.4	8040.5
67.5°	800.3	775.0	680.9	634.6	676.7	1043.1	5023.4	6977.7	8370.4	10065.0	6819.0
70°	714.6	702.0	607.9	540.5	536.3	636.0	1850.4	3601.2	5121.6	6866.8	4985.5
72.5°	640.2	617.7	537.7	473.1	440.8	450.7	803.1	1387.1	2650.7	4283.5	2982.0
75°	554.6	537.7	467.5	402.9	363.6	329.9	490.0	641.6	1208.8	2035.7	1408.2
77.5°	428.2	417.0	369.2	320.1	297.6	245.7	297.6	404.3	558.8	857.8	732.9
80°	248.5	255.5	275.2	249.9	219.0	175.5	193.7	233.1	335.5	464.7	415.6
82.5°	125.0	133.4	178.3	144.6	130.6	102.5	115.1	137.6	175.5	256.9	162.9
85°	9.8	9.8	32.3	36.5	44.9	36.5	46.3	56.2	80.0	102.5	54.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.0	12.6	23.9	15.4
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°	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6	4895.6
2.5°	4904.0	4832.4	4746.8	4676.6	4568.5	4510.9	4437.9	4348.1	4311.6	4294.7	4284.9
5°	4913.9	4787.5	4605.0	4436.5	4249.8	4102.4	3938.1	3766.8	3668.5	3644.7	3627.8
7.5°	4950.4	4773.5	4482.8	4204.9	3858.1	3536.6	3223.5	2913.2	2754.6	2694.2	2688.6
10°	5000.9	4767.8	4359.3	3897.4	3311.9	2803.7	2437.3	2194.4	2091.9	2058.2	2047.0
12.5°	5064.1	4763.6	4196.4	3470.6	2681.6	2201.4	1992.2	1952.9	1966.9	1964.1	1964.1
15°	5144.1	4769.3	3999.9	2987.6	2169.1	1910.8	1915.0	1961.3	2004.9	2011.9	2011.9
17.5°	5231.2	4763.6	3714.9	2503.3	1861.7	1842.0	1906.6	1971.2	2010.5	2016.1	2016.1
20°	5325.2	4737.0	3355.5	2047.0	1726.9	1798.5	1868.7	1919.2	1943.1	1948.7	1948.7
22.5°	5381.4	4661.1	2965.2	1732.5	1641.2	1729.7	1776.0	1828.0	1830.8	1785.8	1784.4
25°	5373.0	4519.3	2520.1	1530.3	1550.0	1627.2	1686.2	1649.7	1604.7	1579.5	1575.2
27.5°	5319.6	4305.9	2066.6	1377.3	1441.9	1528.9	1510.7	1479.8	1468.5	1440.5	1437.7
30°	5252.2	4043.4	1659.5	1257.9	1329.5	1409.6	1381.5	1378.7	1367.5	1336.6	1336.6
32.5°	5187.6	3772.4	1352.0	1169.5	1257.9	1263.6	1302.9	1305.7	1300.1	1246.7	1241.1
35°	5169.4	3501.5	1144.2	1099.3	1187.7	1184.9	1241.1	1239.7	1142.8	1068.4	1067.0
37.5°	5224.1	3226.3	1020.7	1041.7	1090.9	1127.4	1172.3	1090.9	1058.6	1013.7	1010.9
40°	5340.7	2972.2	957.5	1008.0	1029.1	1082.5	1012.3	1017.9	1009.4	975.8	971.5
42.5°	5495.1	2756.0	922.4	996.8	994.0	1008.0	930.8	953.3	965.9	940.7	936.4
45°	5643.9	2567.8	904.2	954.7	968.7	887.3	871.9	892.9	912.6	902.7	898.5
47.5°	5753.4	2405.0	894.3	897.1	936.4	846.6	821.3	831.1	855.0	859.2	857.8
50°	5787.1	2266.0	883.1	849.4	841.0	805.9	786.2	783.4	811.5	831.1	834.0
52.5°	5722.5	2142.4	853.6	807.3	766.6	772.2	765.2	751.1	779.2	805.9	808.7
55°	5627.1	2072.2	807.3	766.6	718.8	741.3	744.1	731.5	749.7	768.0	768.0
57.5°	5634.1	2113.0	762.4	728.7	676.7	706.2	721.6	716.0	716.0	730.1	731.5
60°	5680.4	2171.9	732.9	680.9	634.6	665.5	700.6	695.0	682.3	700.6	700.6
62.5°	5547.0	2093.3	713.2	634.6	589.7	626.2	668.3	665.5	651.4	680.9	683.7
65°	5153.9	1882.7	690.7	577.0	544.7	586.9	623.4	633.2	620.6	659.9	666.9
67.5°	4320.0	1583.7	647.2	522.3	499.8	539.1	574.2	588.3	578.4	624.8	630.4
70°	3220.7	1281.8	578.4	461.9	445.1	480.2	512.4	518.1	519.5	574.2	579.8
72.5°	2054.0	996.8	487.2	394.5	381.9	408.6	432.4	454.9	464.7	516.7	515.3
75°	1145.6	741.3	391.7	334.1	311.7	332.7	360.8	387.5	415.6	491.4	499.8
77.5°	659.9	520.9	310.3	268.2	241.5	263.9	287.8	325.7	410.0	475.9	467.5
80°	372.0	338.4	234.5	196.6	179.7	196.6	214.8	286.4	322.9	351.0	355.2
82.5°	174.1	189.5	160.1	120.7	120.7	132.0	148.8	221.8	244.3	199.4	174.1
85°	63.2	85.6	78.6	61.8	54.8	53.4	92.7	126.4	78.6	70.2	60.4
87.5°	16.8	23.9	22.5	15.4	8.4	7.0	0.0	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)