

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: P639244

Luminaire Tested: GWS-SA5B-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14869.6 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

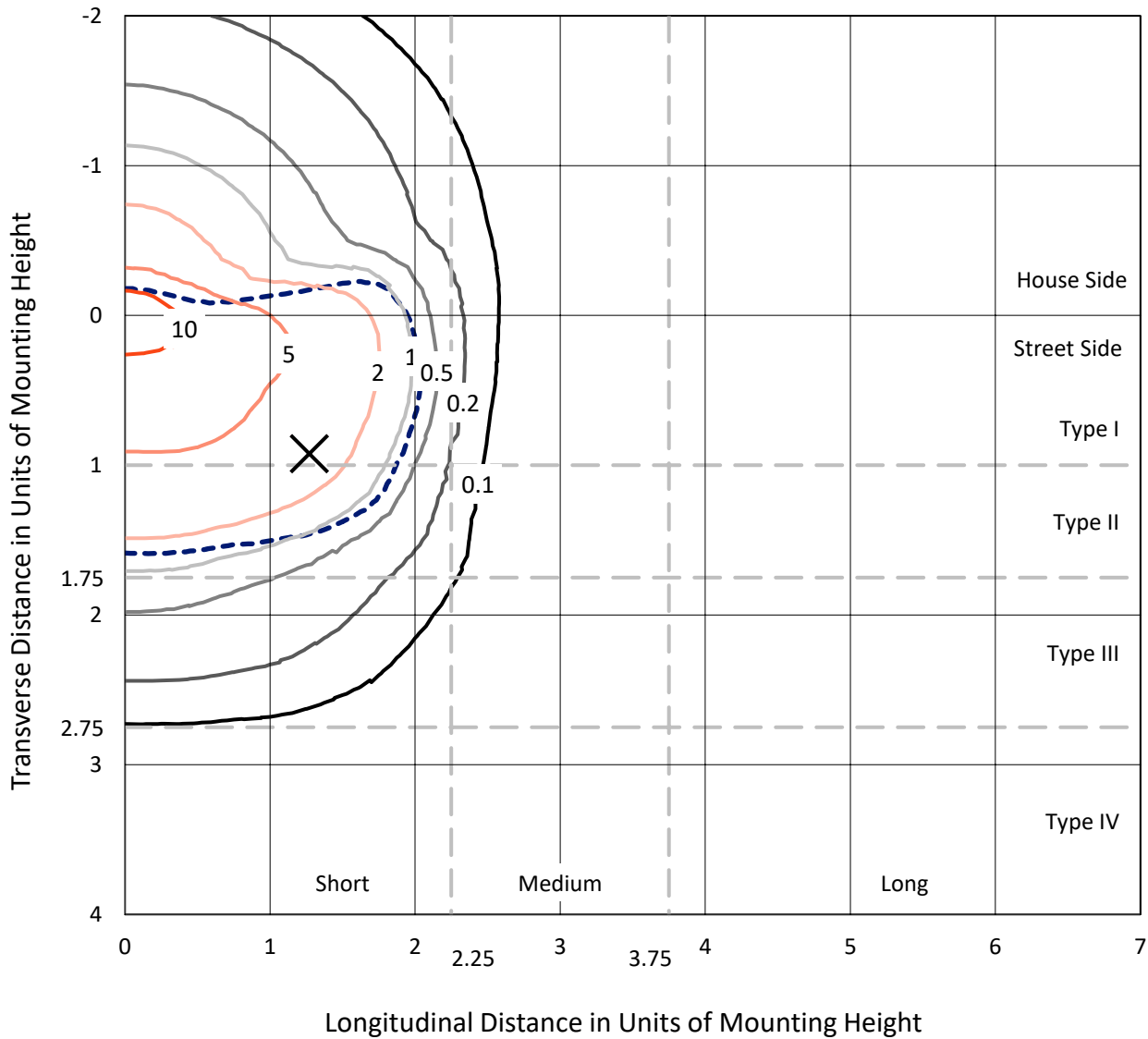
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639244
 CATALOG NUMBER: GWS-SA5B-740-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

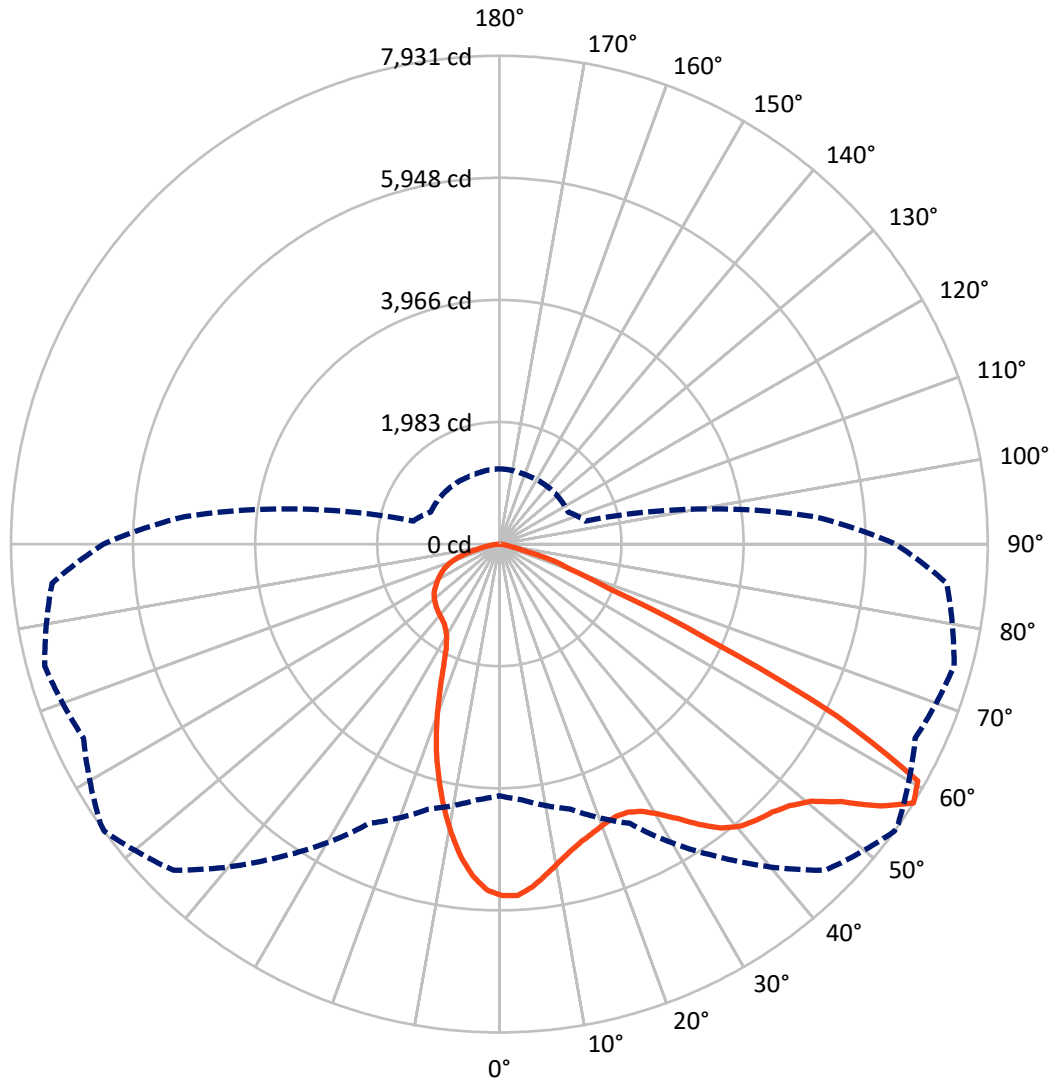
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

REPORT NUMBER: P639244
CATALOG NUMBER: GWS-SA5B-740-U-SL3-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P639244

CATALOG NUMBER: GWS-SA5B-740-U-SL3-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4322.8	0.0	4322.8
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	10546.8	0.0	10546.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	14869.6	0.0	14869.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.8	3.4
10°-20°	1197.3	8.1
20°-30°	1656.9	11.1
30°-40°	2302.3	15.5
40°-50°	3040.7	20.4
50°-60°	3613.4	24.3
60°-70°	2001.9	13.5
70°-80°	498.5	3.4
80°-90°	56.7	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°	14869.6	100.0
0°-180°	14869.6	100.0

Coefficient of Utilization



REPORT NUMBER: P639244

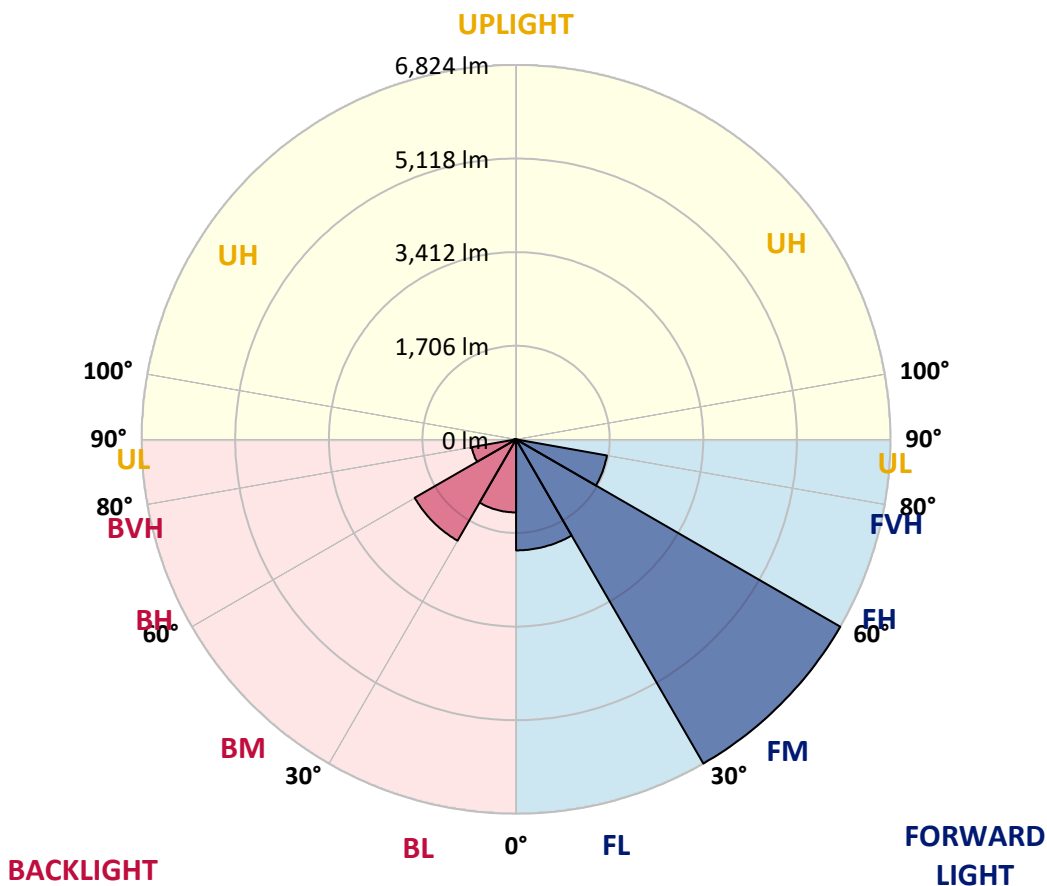
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.0	13.6			
FM (30°-60°)	6823.9	45.9			
FH (60°-80°)	1681.2	11.3			G1/1800
FVH (80°-90°)	17.7	0.1			G1/100
BL (0°-30°)	1332.1	9.0	B3/2500		
BM (30°-60°)	2132.5	14.3	B2/2500		
BH (60°-80°)	819.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	38.9	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





REPORT NUMBER: P639244

CATALOG NUMBER: GWS-SA5B-740-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8
2.5°	5601.9	5613.3	5620.9	5647.7	5670.6	5691.0	5712.6	5712.6	5711.3	5707.5	5699.9
5°	5380.4	5393.1	5410.9	5447.8	5497.5	5533.1	5591.7	5596.8	5622.2	5632.4	5627.3
7.5°	5123.3	5127.1	5150.0	5198.4	5277.3	5340.9	5424.9	5435.1	5496.2	5531.8	5525.5
10°	4842.0	4829.2	4870.0	4941.2	5044.3	5151.3	5259.5	5268.4	5366.4	5433.8	5428.7
12.5°	4584.8	4586.1	4626.8	4713.4	4842.0	4974.3	5119.4	5139.8	5260.7	5347.3	5338.4
15°	4369.7	4374.8	4424.5	4522.5	4668.9	4826.7	5007.4	5026.5	5179.3	5293.8	5268.4
17.5°	4197.9	4203.0	4246.3	4358.3	4514.8	4705.8	4926.0	4945.1	5134.7	5270.9	5218.7
20°	4079.5	4077.0	4119.0	4225.9	4387.5	4595.0	4854.7	4882.7	5120.7	5279.8	5185.6
22.5°	4031.1	4029.9	4060.4	4148.3	4299.7	4509.7	4811.4	4849.6	5136.0	5319.3	5165.3
25°	4055.3	4050.2	4077.0	4141.9	4262.8	4476.6	4824.1	4864.9	5200.9	5400.7	5169.1
27.5°	4130.4	4124.1	4147.0	4205.5	4297.2	4511.0	4913.2	4960.3	5338.4	5549.7	5220.0
30°	4245.0	4241.2	4264.1	4320.1	4400.3	4625.6	5083.8	5137.3	5550.9	5781.3	5330.7
32.5°	4378.6	4372.3	4413.0	4477.9	4570.8	4834.3	5312.9	5382.9	5803.0	6079.2	5516.6
35°	4528.8	4523.7	4579.8	4673.9	4807.6	5124.5	5590.4	5666.8	6060.1	6416.5	5763.5
37.5°	4675.2	4675.2	4783.4	4923.4	5091.4	5440.2	5851.3	5899.7	6238.3	6715.6	6028.3
40°	4805.0	4812.7	4975.6	5185.6	5399.5	5725.3	6023.2	6063.9	6317.2	6921.8	6258.7
42.5°	4948.9	4955.2	5144.9	5419.8	5674.4	5955.7	6127.5	6147.9	6332.5	7024.9	6421.6
45°	5063.4	5072.3	5307.8	5601.9	5913.7	6128.8	6210.3	6228.1	6354.1	7080.9	6540.0
47.5°	5123.3	5136.0	5405.8	5748.2	6075.4	6284.1	6346.5	6354.1	6443.2	7178.9	6682.5
50°	5113.1	5138.5	5442.7	5820.8	6195.0	6440.7	6565.4	6578.1	6625.2	7322.8	6849.3
52.5°	5203.5	5214.9	5521.7	5907.3	6365.6	6729.6	6946.0	6963.8	6942.2	7431.0	6948.5
55°	5053.3	5108.0	5423.7	5894.6	6625.2	7176.4	7509.9	7501.0	7229.8	7551.9	7114.0
57.5°	4087.2	4167.3	4456.3	5003.6	6197.6	7489.5	7931.2	7909.6	7452.6	7644.8	7293.5
60°	2829.6	2842.3	3103.2	3491.5	4783.4	6616.3	7807.7	7854.8	7493.3	7527.7	6961.3
62.5°	2263.1	2259.3	2283.5	2293.7	3042.1	4651.0	6163.2	6335.0	6225.6	5865.3	4933.6
65°	1932.2	1946.2	2017.5	1980.6	1985.7	2619.5	3682.4	3706.6	3630.2	3500.4	2609.4
67.5°	1512.2	1536.3	1662.4	1806.2	1760.4	1686.5	1910.6	1899.1	1496.9	1158.3	957.2
70°	947.0	962.3	1097.2	1418.0	1532.5	1384.9	1228.3	1223.2	801.9	659.3	723.0
72.5°	552.4	555.0	593.2	790.4	1017.0	947.0	903.7	870.6	515.5	525.7	576.6
75°	304.2	304.2	302.9	341.1	401.0	355.1	343.7	334.8	344.9	390.8	429.0
77.5°	63.6	64.9	68.7	90.4	117.1	142.6	179.5	180.7	225.3	260.9	291.5
80°	29.3	30.5	38.2	48.4	62.4	82.7	109.5	110.7	136.2	164.2	184.6
82.5°	15.3	16.5	20.4	25.5	33.1	43.3	61.1	61.1	81.5	96.7	109.5
85°	5.1	5.1	7.6	10.2	14.0	17.8	24.2	24.2	35.6	47.1	54.7
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	5.1	5.1	6.4	7.6	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639244

CATALOG NUMBER: GWS-SA5B-740-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8	5708.8
2.5°	5683.3	5643.9	5645.1	5652.8	5628.6	5591.7	5567.5	5536.9	5517.8	5514.0	5528.0
5°	5601.9	5556.0	5524.2	5491.1	5422.4	5340.9	5277.3	5225.1	5190.7	5178.0	5162.7
7.5°	5489.8	5430.0	5349.8	5256.9	5132.2	4987.1	4885.2	4789.8	4723.6	4704.5	4695.6
10°	5377.8	5291.3	5148.7	4975.6	4768.1	4572.1	4387.5	4246.3	4134.2	4070.6	4091.0
12.5°	5262.0	5155.1	4932.3	4666.3	4377.4	4082.1	3840.2	3606.0	3425.3	3334.9	3308.2
15°	5160.2	5015.1	4704.5	4344.3	3959.9	3588.2	3238.2	2886.8	2657.7	2533.0	2498.6
17.5°	5073.6	4885.2	4463.9	4015.9	3556.4	3026.9	2596.6	2270.8	2114.2	2045.5	2040.4
20°	4988.3	4758.0	4225.9	3662.0	3090.5	2497.4	2112.9	1960.2	1904.2	1880.0	1878.7
22.5°	4912.0	4624.3	3975.1	3308.2	2627.2	2098.9	1887.7	1821.5	1806.2	1806.2	1803.6
25°	4847.1	4490.7	3718.0	2932.7	2208.4	1868.6	1770.5	1742.5	1748.9	1760.4	1761.6
27.5°	4820.3	4386.3	3469.8	2547.0	1919.5	1734.9	1690.4	1686.5	1704.4	1722.2	1724.7
30°	4848.3	4315.0	3215.2	2177.9	1746.4	1653.4	1633.1	1640.7	1662.4	1680.2	1680.2
32.5°	4934.9	4279.4	2955.6	1908.0	1645.8	1596.2	1589.8	1597.4	1614.0	1624.2	1625.4
35°	5081.3	4293.4	2687.0	1726.0	1580.9	1554.2	1552.9	1558.0	1564.3	1570.7	1572.0
37.5°	5265.8	4355.7	2399.3	1620.4	1538.9	1523.6	1521.1	1519.8	1521.1	1521.1	1522.3
40°	5446.6	4449.9	2142.2	1558.0	1509.6	1496.9	1490.5	1481.6	1480.3	1477.8	1476.5
42.5°	5580.2	4522.5	1937.3	1513.4	1482.9	1467.6	1460.0	1446.0	1444.7	1443.4	1442.2
45°	5680.8	4583.6	1766.7	1470.2	1454.9	1440.9	1424.3	1411.6	1414.1	1416.7	1416.7
47.5°	5794.1	4637.0	1642.0	1429.4	1420.5	1406.5	1386.1	1377.2	1386.1	1395.1	1395.1
50°	5931.5	4712.1	1540.2	1388.7	1384.9	1368.3	1350.5	1346.7	1356.9	1369.6	1369.6
52.5°	6032.1	4777.0	1467.6	1348.0	1348.0	1326.3	1311.0	1309.8	1321.2	1334.0	1335.2
55°	6220.5	4928.5	1442.2	1300.9	1295.8	1279.2	1267.8	1258.9	1272.9	1284.3	1284.3
57.5°	6433.0	5129.6	1448.5	1233.4	1227.0	1221.9	1213.0	1202.9	1206.7	1219.4	1220.7
60°	5982.4	4740.1	1378.5	1165.9	1162.1	1159.6	1148.1	1130.3	1135.4	1145.6	1146.8
62.5°	4178.8	3150.3	1115.0	1081.9	1094.7	1093.4	1078.1	1057.7	1059.0	1073.0	1073.0
65°	2169.0	1704.4	978.8	1005.6	1024.7	1017.0	991.6	973.7	971.2	989.0	985.2
67.5°	935.6	930.5	891.0	925.4	945.7	929.2	902.5	873.2	875.7	882.1	877.0
70°	753.5	776.4	793.0	829.9	846.5	815.9	786.6	770.1	756.1	754.8	745.9
72.5°	602.1	633.9	670.8	709.0	714.1	683.5	646.6	631.3	609.7	608.4	599.5
75°	453.1	479.9	509.1	539.7	539.7	510.4	486.2	478.6	453.1	445.5	437.9
77.5°	309.3	325.9	348.8	356.4	364.0	352.6	328.4	315.7	286.4	278.8	268.6
80°	194.7	206.2	220.2	225.3	232.9	218.9	199.8	185.8	165.5	159.1	154.0
82.5°	117.1	124.7	133.7	136.2	142.6	132.4	114.6	104.4	92.9	87.8	84.0
85°	59.8	63.6	68.7	70.0	68.7	58.6	52.2	47.1	39.5	38.2	35.6
87.5°	15.3	17.8	19.1	17.8	16.5	12.7	8.9	6.4	2.5	2.5	1.3
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)