

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: P637539

Luminaire Tested: GWS-SA4D-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637539
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-SA4D-722-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 15106.3 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

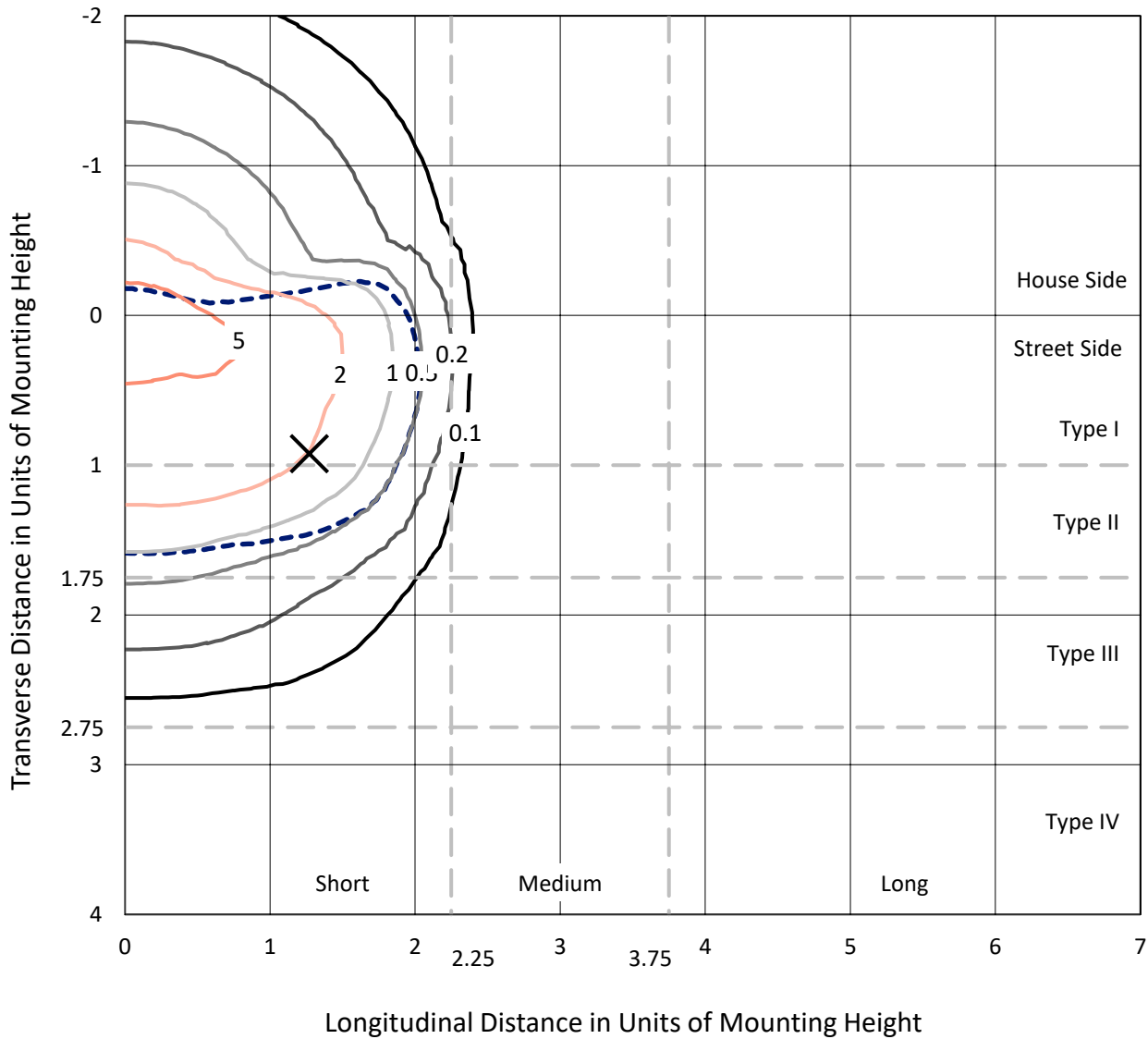
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637539
 CATALOG NUMBER: GWS-SA4D-722-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

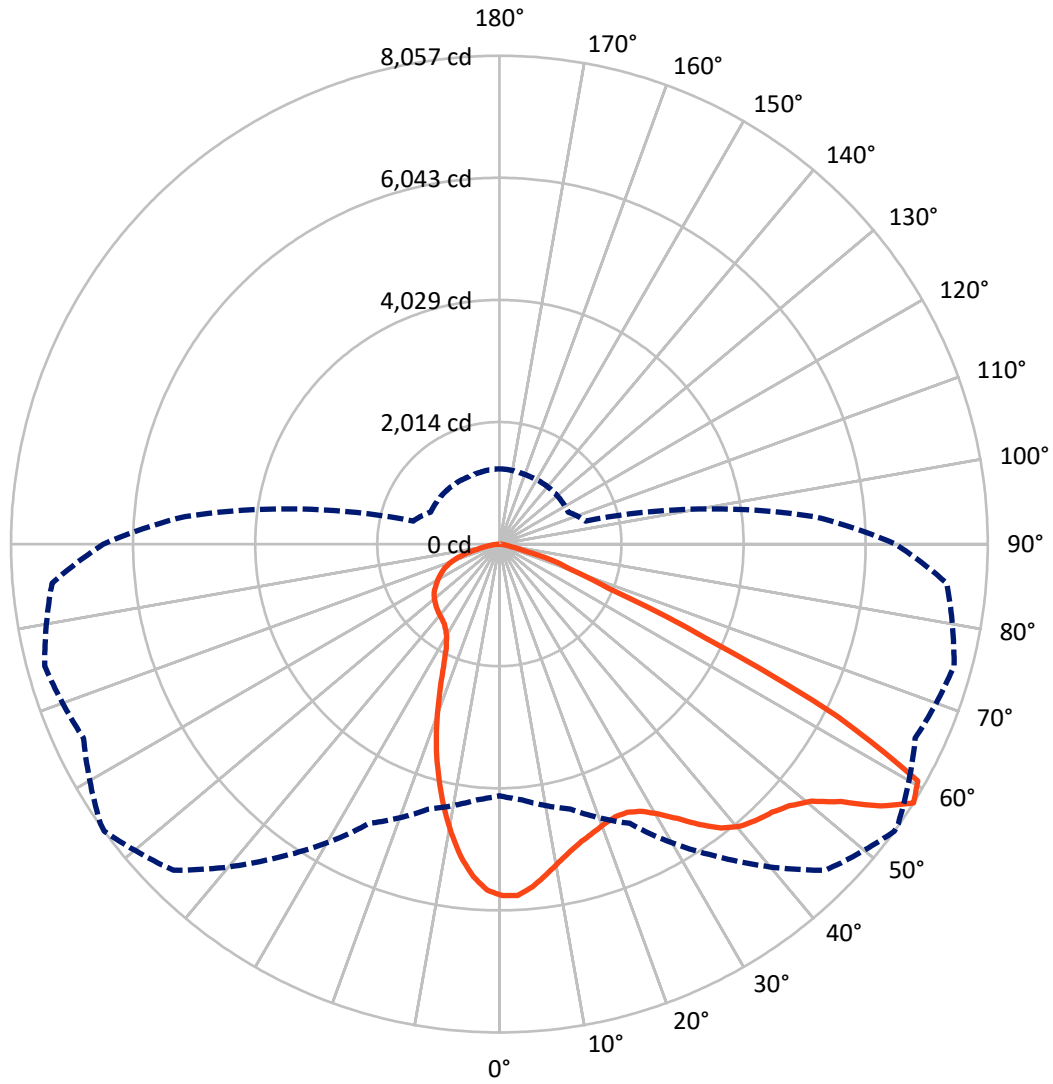
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

REPORT NUMBER: P637539
CATALOG NUMBER: GWS-SA4D-722-U-SL3-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637539

CATALOG NUMBER: GWS-SA4D-722-U-SL3-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4391.6	0.0	4391.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	10714.7	0.0	10714.7
	% Fixture	70.9	0.0	70.9
Total	Lumens	15106.3	0.0	15106.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.8	3.4
10°-20°	1216.4	8.1
20°-30°	1683.3	11.1
30°-40°	2339.0	15.5
40°-50°	3089.1	20.4
50°-60°	3670.9	24.3
60°-70°	2033.8	13.5
70°-80°	506.4	3.4
80°-90°	57.6	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°	15106.3	100.0
0°-180°	15106.3	100.0

Coefficient of Utilization



REPORT NUMBER: P637539

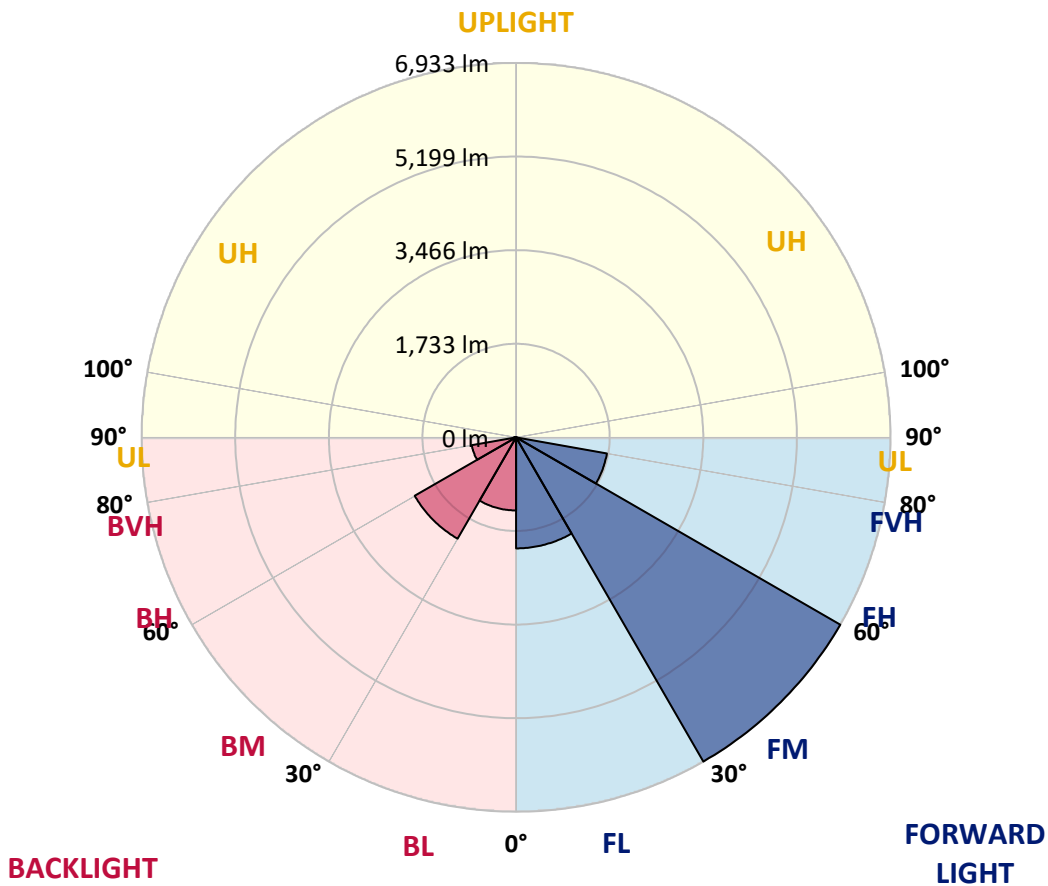
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.2	13.6			
FM (30°-60°)	6932.5	45.9			
FH (60°-80°)	1708.0	11.3			G1/1800
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	1353.3	9.0	B3/2500		
BM (30°-60°)	2166.5	14.3	B2/2500		
BH (60°-80°)	832.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	39.6	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: P637539

CATALOG NUMBER: GWS-SA4D-722-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7
2.5°	5691.0	5702.7	5710.4	5737.6	5760.9	5781.5	5803.5	5803.5	5802.2	5798.4	5790.6
5°	5466.0	5479.0	5497.1	5534.6	5585.0	5621.2	5680.7	5685.9	5711.7	5722.1	5716.9
7.5°	5204.8	5208.7	5232.0	5281.1	5361.3	5425.9	5511.3	5521.6	5583.7	5619.9	5613.4
10°	4919.0	4906.1	4947.5	5019.9	5124.6	5233.3	5343.2	5352.2	5451.8	5520.3	5515.2
12.5°	4657.8	4659.1	4700.5	4788.4	4919.0	5053.5	5200.9	5221.6	5344.5	5432.4	5423.4
15°	4439.3	4444.5	4494.9	4594.5	4743.2	4903.5	5087.1	5106.5	5261.7	5378.1	5352.2
17.5°	4264.7	4269.9	4313.9	4427.6	4586.7	4780.7	5004.4	5023.8	5216.5	5354.8	5301.8
20°	4144.5	4141.9	4184.5	4293.2	4457.4	4668.2	4932.0	4960.4	5202.2	5363.9	5268.2
22.5°	4095.3	4094.0	4125.1	4214.3	4368.2	4581.5	4888.0	4926.8	5217.7	5404.0	5247.5
25°	4119.9	4114.7	4141.9	4207.8	4330.7	4547.9	4900.9	4942.3	5283.7	5486.7	5251.4
27.5°	4196.2	4189.7	4213.0	4272.5	4365.6	4582.8	4991.5	5039.3	5423.4	5638.0	5303.1
30°	4312.6	4308.7	4332.0	4388.9	4470.3	4699.2	5164.7	5219.0	5639.3	5873.4	5415.6
32.5°	4448.3	4441.9	4483.3	4549.2	4643.6	4911.3	5397.5	5468.6	5895.3	6176.0	5604.4
35°	4600.9	4595.8	4652.7	4748.3	4884.1	5206.1	5679.4	5757.0	6156.6	6518.6	5855.3
37.5°	4749.6	4749.6	4859.6	5001.8	5172.5	5526.8	5944.5	5993.6	6337.6	6822.5	6124.2
40°	4881.5	4889.3	5054.8	5268.2	5485.4	5816.5	6119.1	6160.4	6417.8	7032.0	6358.3
42.5°	5027.7	5034.1	5226.8	5506.1	5764.7	6050.5	6225.1	6245.8	6433.3	7136.7	6523.8
45°	5144.0	5153.1	5392.3	5691.0	6007.8	6226.4	6309.1	6327.2	6455.3	7193.6	6644.1
47.5°	5204.8	5217.7	5491.9	5839.7	6172.1	6384.1	6447.5	6455.3	6545.8	7293.2	6788.9
50°	5194.5	5220.3	5529.4	5913.4	6293.6	6543.2	6669.9	6682.9	6730.7	7439.3	6958.3
52.5°	5286.3	5297.9	5609.6	6001.4	6466.9	6836.7	7056.6	7074.7	7052.7	7549.2	7059.2
55°	5133.7	5189.3	5510.0	5988.4	6730.7	7290.6	7629.4	7620.4	7344.9	7672.1	7227.3
57.5°	4152.2	4233.7	4527.2	5083.3	6296.2	7608.7	8057.4	8035.5	7571.2	7766.5	7409.6
60°	2874.6	2887.5	3152.6	3547.0	4859.6	6721.6	7932.0	7979.9	7612.6	7647.5	7072.1
62.5°	2299.2	2295.3	2319.9	2330.2	3090.6	4725.1	6261.3	6435.9	6324.7	5958.7	5012.1
65°	1963.0	1977.2	2049.6	2012.1	2017.3	2661.2	3741.0	3765.6	3688.0	3556.1	2650.9
67.5°	1536.2	1560.8	1688.8	1834.9	1788.4	1713.4	1941.0	1929.3	1520.7	1176.7	972.4
70°	962.1	977.6	1114.7	1440.5	1556.9	1406.9	1247.9	1242.7	814.7	669.8	734.5
72.5°	561.2	563.8	602.6	803.0	1033.2	962.1	918.1	884.5	523.7	534.1	585.8
75°	309.1	309.1	307.8	346.6	407.3	360.8	349.1	340.1	350.4	397.0	435.8
77.5°	64.7	65.9	69.8	91.8	119.0	144.8	182.3	183.6	228.9	265.1	296.1
80°	29.7	31.0	38.8	49.1	63.4	84.1	111.2	112.5	138.4	166.8	187.5
82.5°	15.5	16.8	20.7	25.9	33.6	44.0	62.1	62.1	82.8	98.3	111.2
85°	5.2	5.2	7.8	10.3	14.2	18.1	24.6	24.6	36.2	47.8	55.6
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	5.2	5.2	6.5	7.8	12.9
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: P637539

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7	5799.7
2.5°	5773.8	5733.7	5735.0	5742.8	5718.2	5680.7	5656.1	5625.1	5605.7	5601.8	5616.0
5°	5691.0	5644.5	5612.1	5578.5	5508.7	5425.9	5361.3	5308.3	5273.4	5260.4	5244.9
7.5°	5577.2	5516.5	5435.0	5340.6	5213.9	5066.5	4963.0	4866.0	4798.8	4779.4	4770.3
10°	5463.4	5375.5	5230.7	5054.8	4844.0	4644.9	4457.4	4313.9	4200.1	4135.4	4156.1
12.5°	5345.8	5237.1	5010.8	4740.6	4447.0	4147.0	3901.3	3663.4	3479.8	3388.0	3360.8
15°	5242.3	5094.9	4779.4	4413.4	4022.9	3645.3	3289.7	2932.8	2700.0	2573.3	2538.4
17.5°	5154.4	4963.0	4535.0	4079.8	3613.0	3075.0	2638.0	2306.9	2147.9	2078.0	2072.9
20°	5067.7	4833.7	4293.2	3720.3	3139.7	2537.1	2146.6	1991.4	1934.5	1909.9	1908.6
22.5°	4990.2	4697.9	4038.4	3360.8	2669.0	2132.4	1917.7	1850.5	1834.9	1834.9	1832.4
25°	4924.2	4562.1	3777.2	2979.4	2243.6	1898.3	1798.7	1770.3	1776.7	1788.4	1789.7
27.5°	4897.1	4456.1	3525.1	2587.5	1950.0	1762.5	1717.3	1713.4	1731.5	1749.6	1752.2
30°	4925.5	4383.7	3266.4	2212.5	1774.2	1679.8	1659.1	1666.8	1688.8	1706.9	1706.9
32.5°	5013.4	4347.5	3002.6	1938.4	1672.0	1621.6	1615.1	1622.9	1639.7	1650.0	1651.3
35°	5162.1	4361.7	2729.8	1753.5	1606.1	1578.9	1577.6	1582.8	1589.2	1595.7	1597.0
37.5°	5349.6	4425.1	2437.5	1646.1	1563.4	1547.9	1545.3	1544.0	1545.3	1545.3	1546.6
40°	5533.3	4520.8	2176.3	1582.8	1533.6	1520.7	1514.2	1505.2	1503.9	1501.3	1500.0
42.5°	5669.0	4594.5	1968.1	1537.5	1506.5	1491.0	1483.2	1469.0	1467.7	1466.4	1465.1
45°	5771.2	4656.5	1794.9	1493.6	1478.0	1463.8	1447.0	1434.1	1436.7	1439.2	1439.2
47.5°	5886.3	4710.8	1668.1	1452.2	1443.1	1428.9	1408.2	1399.2	1408.2	1417.3	1417.3
50°	6025.9	4787.1	1564.7	1410.8	1406.9	1390.1	1372.0	1368.1	1378.5	1391.4	1391.4
52.5°	6128.1	4853.1	1491.0	1369.4	1369.4	1347.4	1331.9	1330.6	1342.3	1355.2	1356.5
55°	6319.5	5007.0	1465.1	1321.6	1316.4	1299.6	1287.9	1278.9	1293.1	1304.8	1304.8
57.5°	6535.4	5211.3	1471.6	1253.0	1246.6	1241.4	1232.3	1222.0	1225.9	1238.8	1240.1
60°	6077.7	4815.6	1400.5	1184.5	1180.6	1178.0	1166.4	1148.3	1153.5	1163.8	1165.1
62.5°	4245.3	3200.5	1132.8	1099.2	1112.1	1110.8	1095.3	1074.6	1075.9	1090.1	1090.1
65°	2203.5	1731.5	994.4	1021.6	1041.0	1033.2	1007.3	989.2	986.7	1004.8	1000.9
67.5°	950.4	945.3	905.2	940.1	960.8	944.0	916.8	887.1	889.7	896.1	891.0
70°	765.5	788.8	805.6	843.1	859.9	828.9	799.1	782.3	768.1	766.8	757.8
72.5°	611.6	644.0	681.5	720.3	725.4	694.4	656.9	641.4	619.4	618.1	609.1
75°	460.4	487.5	517.2	548.3	548.3	518.5	494.0	486.2	460.4	452.6	444.8
77.5°	314.2	331.0	354.3	362.1	369.8	358.2	333.6	320.7	291.0	283.2	272.8
80°	197.8	209.5	223.7	228.9	236.6	222.4	203.0	188.8	168.1	161.6	156.5
82.5°	119.0	126.7	135.8	138.4	144.8	134.5	116.4	106.0	94.4	89.2	85.3
85°	60.8	64.7	69.8	71.1	69.8	59.5	53.0	47.8	40.1	38.8	36.2
87.5°	15.5	18.1	19.4	18.1	16.8	12.9	9.1	6.5	2.6	2.6	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)