

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: P633905

Luminaire Tested: GWS-SA2F-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633905  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-760-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

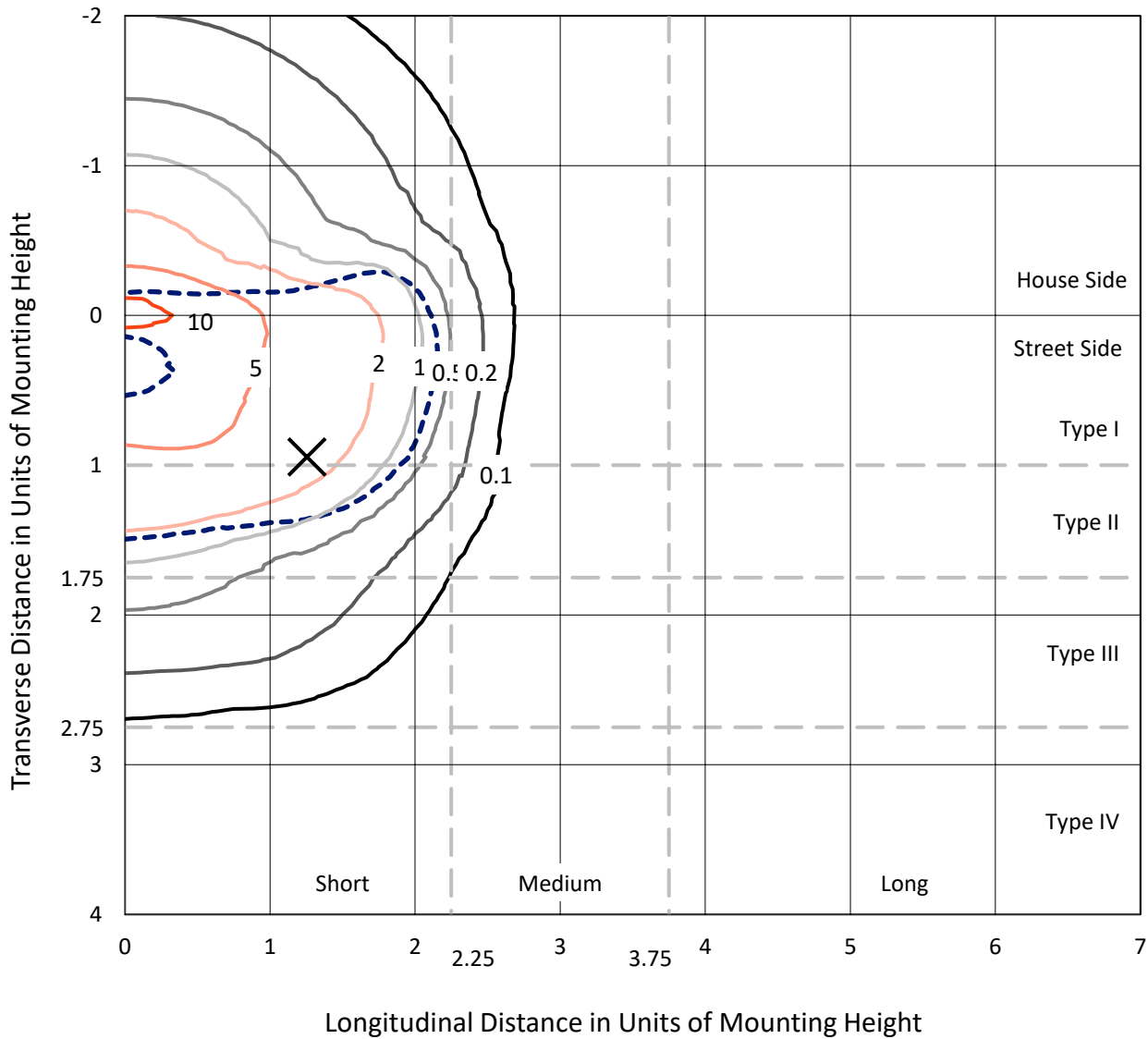
Lumens per Lamp: N/A  
Luminaire Lumens: 13939.9 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

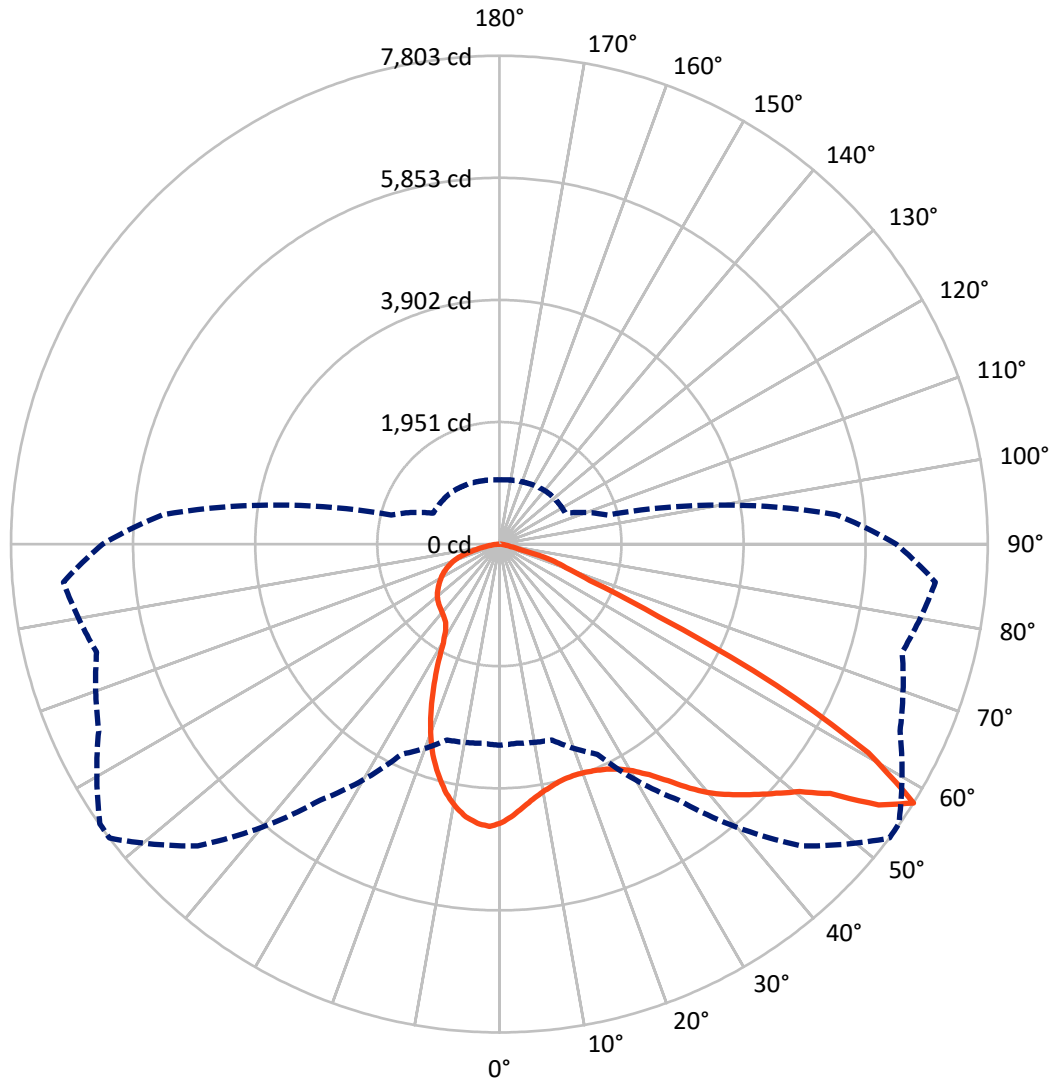
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4358.5	0.0	4358.5
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	9581.4	0.0	9581.4
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	13939.9	0.0	13939.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.5	2.9
10°-20°	1056.1	7.6
20°-30°	1556.0	11.2
30°-40°	2178.0	15.6
40°-50°	2863.1	20.5
50°-60°	3357.0	24.1
60°-70°	1977.6	14.2
70°-80°	492.0	3.5
80°-90°	57.7	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°	13939.9	100.0
0°-180°	13939.9	100.0

**Coefficient of Utilization**



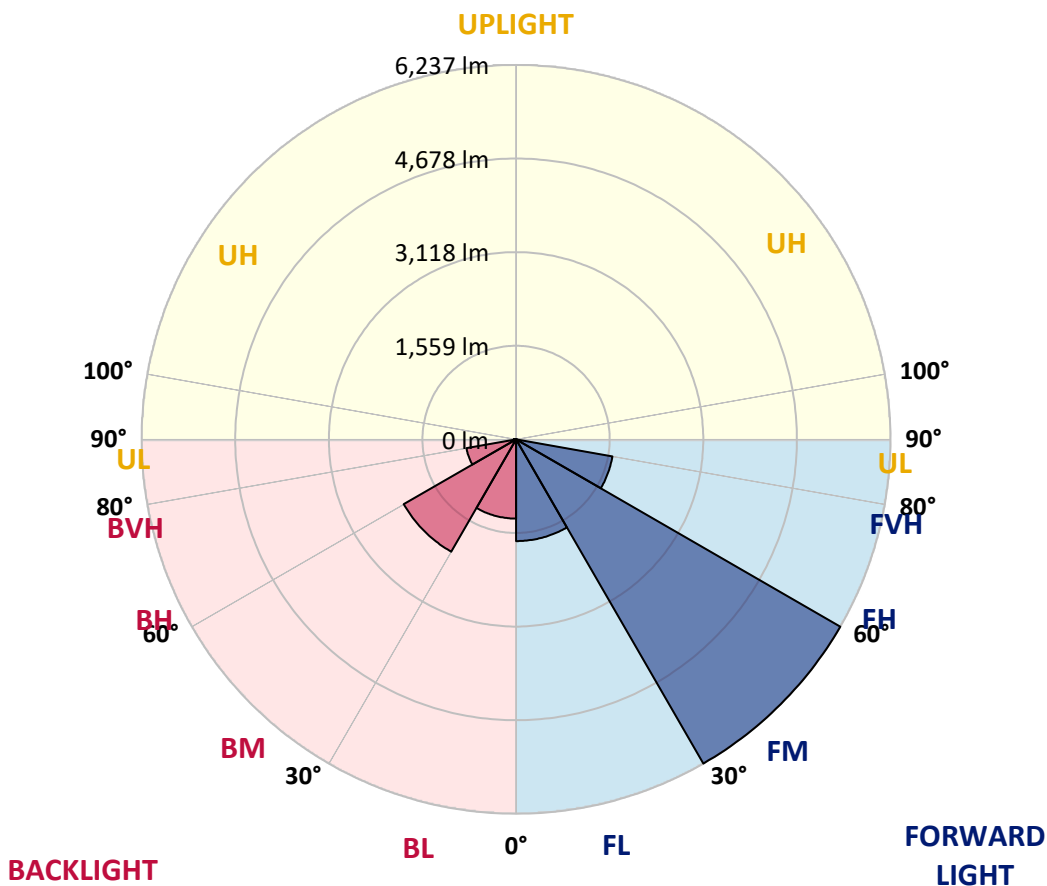
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1694.8	12.2			
FM (30°-60°)	6236.8	44.7			
FH (60°-80°)	1630.4	11.7			G1/1800
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1319.8	9.5	B3/2500		
BM (30°-60°)	2161.2	15.5	B2/2500		
BH (60°-80°)	839.2	6.0	B2/1000		G2/1000
BVH (80°-90°)	38.4	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°	53°	55°	65°	75°	85°
0°	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4
2.5°	4195.6	4207.3	4209.7	4246.1	4248.4	4301.2	4336.4	4329.4	4365.7	4410.3	4445.5
5°	3995.0	3996.2	4007.9	4051.3	4074.8	4144.0	4202.7	4202.7	4273.0	4364.6	4443.2
7.5°	3829.6	3828.4	3838.9	3887.0	3925.8	4009.1	4088.8	4098.2	4196.8	4330.5	4458.4
10°	3675.9	3684.1	3695.8	3754.5	3803.7	3907.0	4002.0	4017.3	4141.6	4307.1	4479.5
12.5°	3577.3	3578.5	3596.1	3661.8	3725.1	3835.4	3935.1	3953.9	4097.1	4284.8	4494.8
15°	3513.9	3515.1	3533.9	3606.6	3680.5	3792.0	3894.1	3915.2	4071.2	4281.3	4524.1
17.5°	3485.8	3484.6	3502.2	3575.0	3655.9	3772.1	3881.2	3907.0	4083.0	4308.2	4575.8
20°	3485.8	3487.0	3496.3	3562.0	3644.2	3767.4	3894.1	3925.8	4128.7	4369.3	4655.5
22.5°	3535.1	3539.8	3544.4	3589.0	3653.6	3774.4	3928.1	3970.3	4227.3	4471.3	4760.0
25°	3631.3	3632.4	3637.1	3673.5	3702.8	3794.4	3984.4	4047.8	4381.0	4620.3	4891.4
27.5°	3760.3	3776.8	3781.4	3804.9	3804.9	3843.6	4072.4	4163.9	4588.7	4835.0	5059.1
30°	3941.0	3946.9	3955.1	3980.9	3952.7	3936.3	4201.5	4318.8	4829.2	5094.3	5260.9
32.5°	4099.4	4112.3	4156.9	4199.1	4148.7	4097.1	4391.5	4530.0	5060.3	5364.2	5475.7
35°	4234.3	4266.0	4351.7	4445.5	4410.3	4358.7	4643.8	4788.1	5250.4	5557.8	5665.7
37.5°	4397.4	4422.1	4539.4	4691.9	4723.6	4698.9	4951.2	5054.4	5377.1	5607.1	5769.0
40°	4562.8	4600.4	4751.7	4962.9	5083.8	5101.4	5235.1	5304.4	5420.5	5510.8	5749.0
42.5°	4731.8	4796.3	5004.0	5250.4	5465.1	5505.0	5474.5	5503.8	5406.4	5378.3	5656.3
45°	4938.3	5014.6	5249.2	5563.6	5846.4	5908.6	5709.1	5682.1	5404.1	5327.8	5598.8
47.5°	5182.3	5258.6	5482.7	5848.8	6210.1	6255.9	5949.7	5900.4	5486.2	5405.3	5676.3
50°	5398.2	5451.0	5651.6	6061.1	6549.2	6576.2	6214.8	6155.0	5690.4	5620.0	5918.0
52.5°	5178.8	5172.9	5384.1	5888.6	6725.2	7050.2	6623.1	6565.6	6084.6	5976.6	6292.2
55°	4393.9	4327.0	4515.9	5012.2	6233.6	7471.4	7355.2	7240.2	6610.2	6335.7	6643.1
57.5°	3212.4	3193.6	3239.4	3705.2	4993.4	6819.0	7803.4	7792.9	7064.3	6664.2	6992.7
60°	2512.0	2483.8	2361.8	2374.7	3403.7	5326.6	6772.1	7083.0	7345.8	6861.3	7236.7
62.5°	2230.4	2209.3	2145.9	1971.1	2027.4	3571.4	4964.1	5249.2	6419.0	6059.9	6216.0
65°	1846.7	1840.9	1893.7	1886.6	1698.9	1972.3	2801.8	3089.2	4036.0	4086.5	4036.0
67.5°	1342.2	1331.7	1465.4	1729.4	1635.5	1488.9	1561.6	1661.4	2069.6	1858.5	1673.1
70°	872.9	857.7	935.1	1249.5	1464.2	1297.6	1125.2	1108.7	1138.1	707.5	765.0
72.5°	585.5	567.9	566.7	687.5	884.6	874.1	871.7	863.5	770.8	558.5	619.5
75°	326.2	312.1	308.6	296.8	316.8	322.6	343.8	355.5	384.8	423.6	469.3
77.5°	55.1	54.0	68.0	86.8	119.7	153.7	190.1	200.6	247.6	293.3	322.6
80°	30.5	31.7	41.1	50.5	66.9	91.5	117.3	124.4	152.5	177.2	200.6
82.5°	16.4	16.4	21.1	27.0	36.4	48.1	63.4	69.2	88.0	103.2	119.7
85°	5.9	5.9	8.2	10.6	15.3	19.9	24.6	28.2	38.7	52.8	59.8
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	4.7	4.7	5.9	10.6	15.3
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°	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4	4451.4
2.5°	4474.9	4443.2	4486.6	4506.5	4513.6	4518.3	4487.8	4466.6	4459.6	4437.3	4424.4
5°	4491.3	4470.2	4511.2	4511.2	4481.9	4451.4	4389.2	4345.8	4315.3	4278.9	4273.0
7.5°	4519.4	4504.2	4526.5	4480.7	4406.8	4324.7	4216.7	4132.3	4064.2	4019.6	4020.8
10°	4557.0	4538.2	4520.6	4418.5	4283.6	4132.3	3966.8	3843.6	3731.0	3679.4	3651.2
12.5°	4581.6	4554.6	4480.7	4311.8	4113.5	3910.5	3677.0	3494.0	3330.9	3257.0	3251.1
15°	4612.1	4562.8	4415.0	4173.3	3897.6	3620.7	3320.4	3065.8	2845.2	2730.2	2724.3
17.5°	4652.0	4571.1	4336.4	4014.9	3670.0	3261.7	2883.9	2563.6	2328.9	2239.8	2255.0
20°	4708.3	4580.4	4247.2	3838.9	3387.2	2853.4	2382.9	2088.4	1998.1	1992.2	1980.5
22.5°	4771.7	4586.3	4148.7	3641.8	3044.6	2418.1	1968.7	1843.2	1842.0	1871.4	1878.4
25°	4843.3	4591.0	4037.2	3411.9	2673.9	1984.0	1741.1	1703.6	1732.9	1788.1	1795.1
27.5°	4934.8	4600.4	3902.3	3159.6	2279.7	1714.1	1615.6	1606.2	1641.4	1693.0	1690.7
30°	5069.7	4634.4	3759.2	2869.8	1874.9	1586.3	1539.3	1540.5	1554.6	1579.2	1582.7
32.5°	5207.0	4687.2	3619.5	2543.6	1642.6	1513.5	1492.4	1490.1	1490.1	1500.6	1503.0
35°	5337.2	4747.1	3468.2	2203.4	1529.9	1471.3	1457.2	1450.2	1446.6	1444.3	1440.8
37.5°	5409.9	4776.4	3320.4	1867.8	1470.1	1443.1	1429.0	1419.7	1406.8	1397.4	1395.0
40°	5378.3	4742.4	3149.1	1616.8	1433.7	1416.1	1399.7	1386.8	1369.2	1361.0	1356.3
42.5°	5272.7	4636.8	2962.5	1498.3	1404.4	1386.8	1366.9	1345.7	1334.0	1327.0	1325.8
45°	5161.2	4508.9	2737.2	1429.0	1376.2	1355.1	1331.7	1308.2	1295.3	1291.8	1290.6
47.5°	5157.7	4445.5	2497.9	1373.9	1342.2	1321.1	1291.8	1268.3	1254.2	1249.5	1244.8
50°	5312.6	4510.1	2228.0	1325.8	1307.0	1284.7	1251.9	1226.1	1208.5	1202.6	1201.4
52.5°	5634.0	4752.9	1986.3	1277.7	1260.1	1234.3	1207.3	1181.5	1160.4	1149.8	1148.6
55°	5981.3	5061.5	1836.2	1228.4	1204.9	1182.7	1158.0	1129.9	1106.4	1090.0	1087.6
57.5°	6340.4	5398.2	1790.4	1166.2	1148.6	1133.4	1104.0	1073.5	1046.6	1031.3	1027.8
60°	6636.0	5688.0	1876.1	1100.5	1091.1	1071.2	1044.2	1014.9	996.1	984.4	982.0
62.5°	5555.4	4630.9	1514.7	1029.0	1029.0	1007.8	977.3	956.2	943.3	935.1	932.7
65°	3525.7	2867.5	1033.7	957.4	956.2	928.1	902.2	888.2	882.3	869.4	867.0
67.5°	1535.8	1310.5	883.5	884.6	880.0	849.4	823.6	813.1	801.3	787.3	786.1
70°	796.7	811.9	790.8	803.7	795.5	759.1	734.5	718.0	693.4	679.3	680.5
72.5°	643.0	659.4	682.8	702.8	685.2	655.9	617.1	597.2	565.5	550.3	551.4
75°	490.4	508.0	530.3	551.4	537.4	501.0	476.3	456.4	420.0	402.4	406.0
77.5°	337.9	347.3	374.3	373.1	368.4	357.8	321.5	298.0	260.5	239.3	241.7
80°	210.0	215.9	228.8	234.7	232.3	218.2	188.9	171.3	149.0	136.1	137.3
82.5°	126.7	130.2	142.0	143.1	142.0	131.4	109.1	96.2	82.1	75.1	75.1
85°	64.5	66.9	73.9	73.9	66.9	56.3	50.5	44.6	36.4	32.9	32.9
87.5°	17.6	17.6	22.3	18.8	15.3	14.1	7.0	5.9	2.3	1.2	1.2
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)