

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: P636333

Luminaire Tested: GWS-SA3F-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636333  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

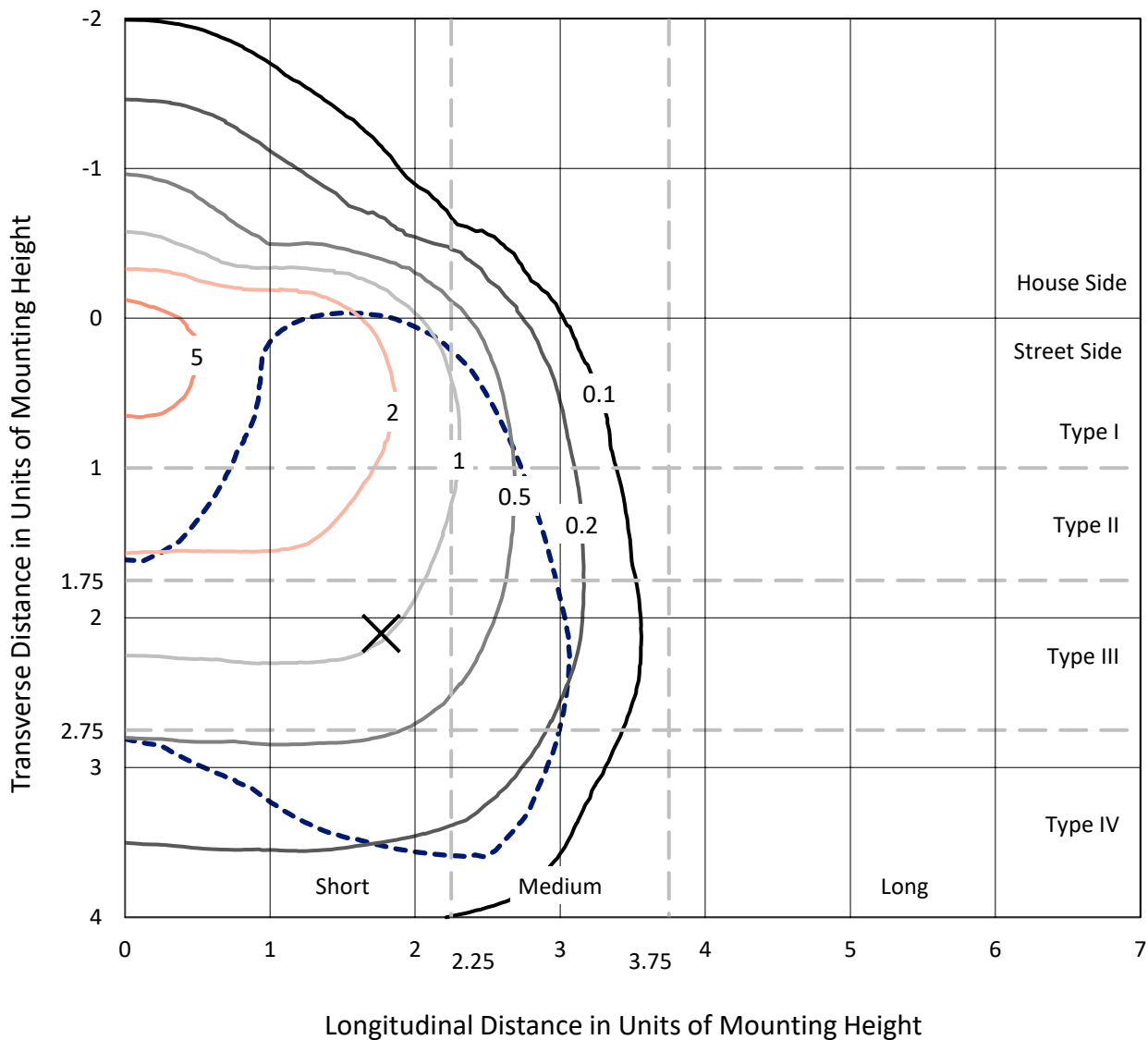
Lumens per Lamp: N/A  
Luminaire Lumens: 24020.3 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

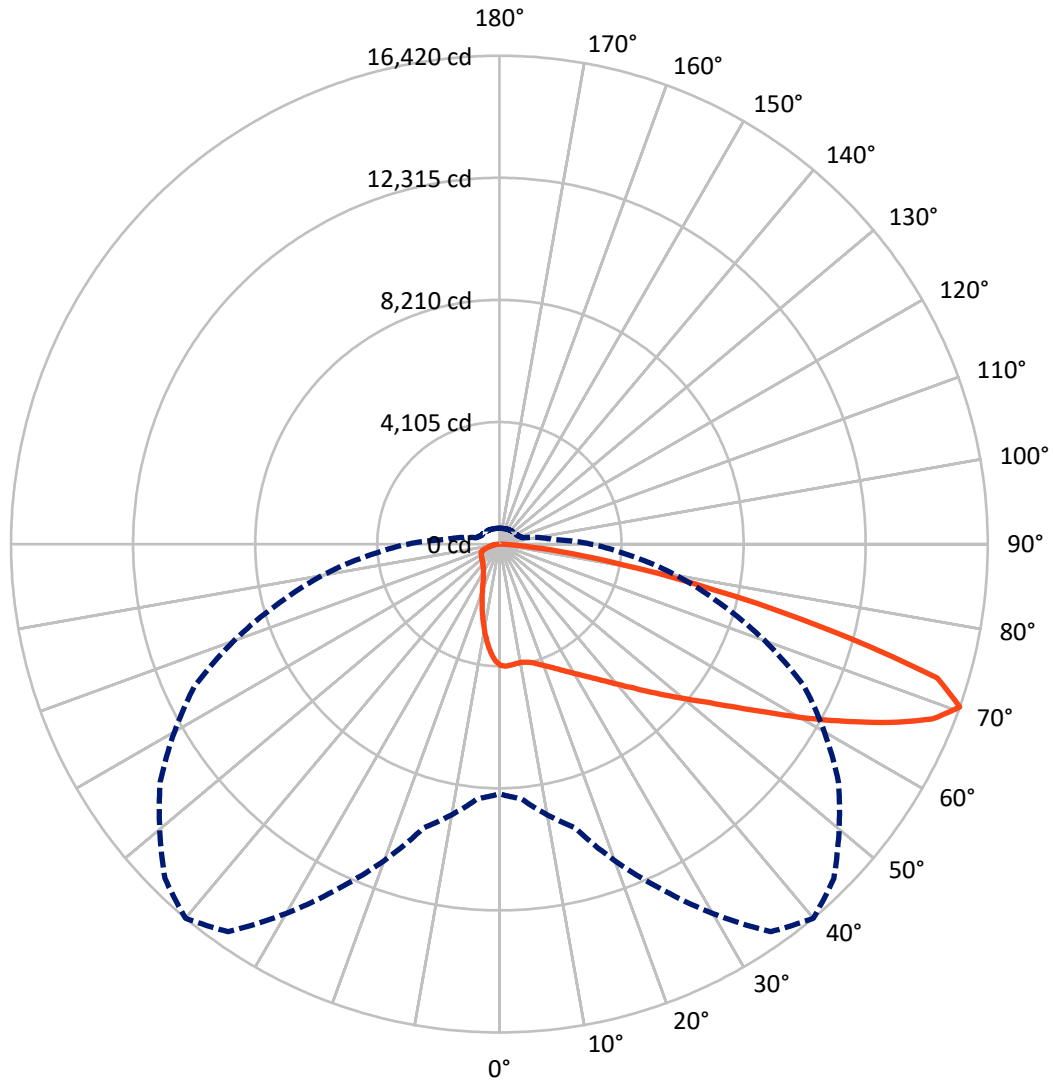
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3699.7	0.0	3699.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	20320.6	0.0	20320.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	24020.3	0.0	24020.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.3	1.5
10°-20°	939.3	3.9
20°-30°	1474.8	6.1
30°-40°	2217.4	9.2
40°-50°	3422.6	14.2
50°-60°	5082.9	21.2
60°-70°	6406.8	26.7
70°-80°	3705.0	15.4
80°-90°	411.2	1.7
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°	24020.3	100.0
0°-180°	24020.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P636333

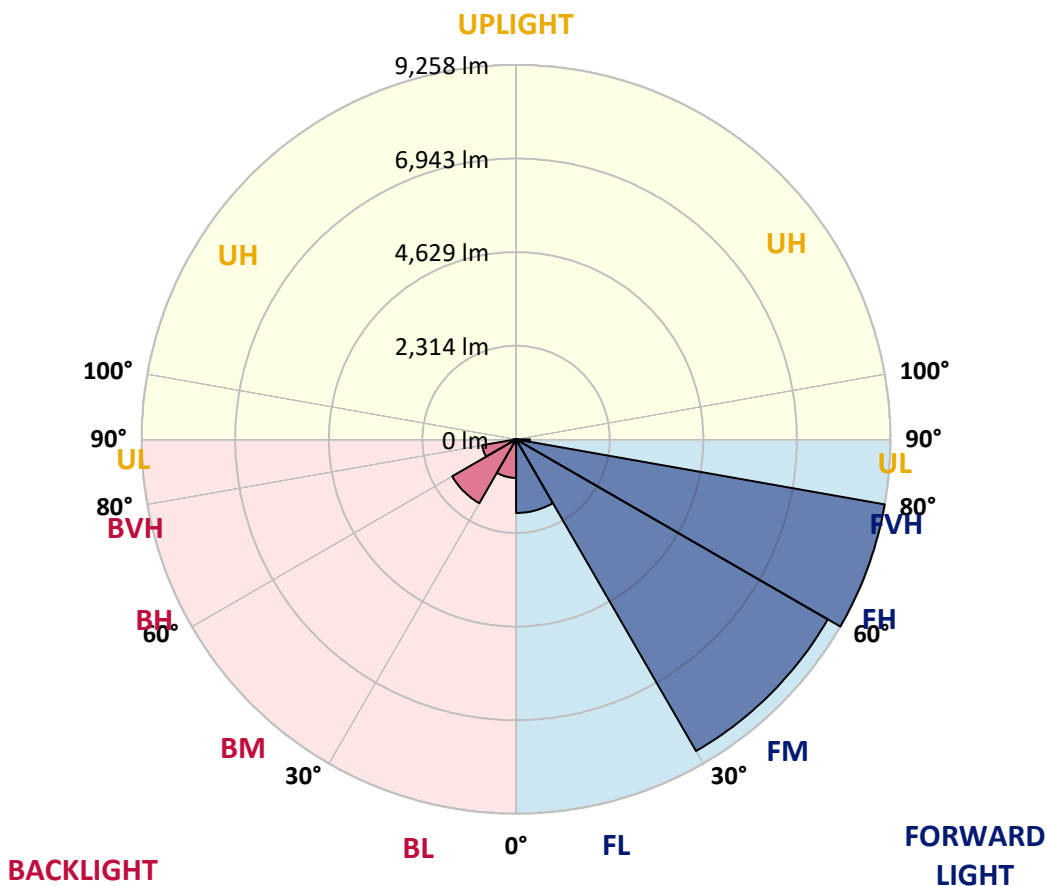
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1820.9	7.6			
FM (30°-60°)	8899.2	37.0			
FH (60°-80°)	9258.0	38.5			G4/12000
FVH (80°-90°)	342.5	1.4			G3/500
BL (0°-30°)	953.5	4.0	B2/1000		
BM (30°-60°)	1823.6	7.6	B2/2500		
BH (60°-80°)	853.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	68.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9
2.5°	4104.0	4111.2	4116.6	4123.7	4120.2	4109.4	4118.4	4118.4	4098.6	4077.1	4057.4
5°	4109.4	4118.4	4116.6	4114.8	4100.4	4082.5	4082.5	4071.8	4037.7	4003.6	3971.3
7.5°	4098.6	4096.9	4095.1	4089.7	4073.5	4053.8	4050.2	4028.7	3983.9	3937.3	3890.7
10°	4050.2	4048.4	4053.8	4066.4	4062.8	4044.9	4044.9	4025.1	3973.1	3915.8	3854.8
12.5°	4010.8	4010.8	4032.3	4066.4	4078.9	4071.8	4073.5	4059.2	4000.0	3931.9	3860.2
15°	4016.2	4018.0	4064.6	4120.2	4143.5	4138.1	4139.9	4123.7	4057.4	3989.3	3892.5
17.5°	4052.0	4061.0	4141.7	4218.8	4249.3	4242.1	4229.5	4202.6	4127.3	4050.2	3931.9
20°	4127.3	4141.7	4245.7	4342.5	4378.3	4362.2	4340.7	4286.9	4204.4	4120.2	3974.9
22.5°	4276.1	4285.1	4399.9	4494.9	4523.6	4503.8	4460.8	4383.7	4288.7	4200.8	4026.9
25°	4485.9	4496.7	4606.0	4693.9	4686.7	4663.4	4604.3	4509.2	4396.3	4303.0	4102.2
27.5°	4735.1	4753.1	4860.6	4930.6	4883.9	4849.9	4783.5	4668.8	4541.5	4457.2	4217.0
30°	5007.7	5014.8	5106.3	5176.2	5104.5	5057.9	4977.2	4853.5	4738.7	4676.0	4389.1
32.5°	5271.2	5278.4	5357.3	5396.7	5321.4	5287.4	5217.4	5086.6	5005.9	4971.8	4645.5
35°	5549.1	5547.3	5611.9	5645.9	5568.8	5554.5	5482.8	5382.4	5368.0	5412.9	5020.2
37.5°	5827.0	5810.9	5845.0	5889.8	5846.8	5861.1	5814.5	5780.4	5836.0	5952.5	5518.6
40°	6049.4	6049.4	6085.2	6140.8	6155.1	6217.9	6191.0	6235.8	6415.1	6693.0	6135.4
42.5°	6246.6	6248.4	6323.7	6409.7	6513.7	6610.5	6632.1	6748.6	7119.7	7555.4	6910.0
45°	6452.8	6454.6	6556.8	6682.3	6902.8	7087.5	7130.5	7392.3	7923.0	8453.7	7750.8
47.5°	6691.2	6671.5	6813.1	7022.9	7336.7	7602.0	7713.2	8084.3	8754.9	9407.5	8543.3
50°	6960.2	6918.9	7076.7	7438.9	7826.2	8190.1	8376.6	8801.5	9647.8	10287.8	9289.2
52.5°	7263.2	7239.9	7404.8	7845.9	8437.5	8857.1	9109.9	9667.5	10515.6	11164.6	9880.9
55°	7639.7	7584.1	7822.6	8383.8	9154.7	9689.0	9988.4	10524.5	11464.0	11960.7	10332.7
57.5°	8052.1	7991.1	8310.2	9056.1	10087.0	10673.3	11048.1	11489.1	12356.9	12570.3	10598.0
60°	8496.7	8477.0	8855.3	9845.0	11198.7	11880.0	12150.7	12550.5	13133.2	12923.5	10531.7
62.5°	8903.7	8896.5	9447.0	10700.2	12376.6	13126.1	13341.2	13447.0	13692.6	12900.2	10004.6
65°	9332.2	9393.2	10137.2	11691.7	13726.7	14461.8	14551.4	14282.5	13880.9	12288.8	8925.2
67.5°	9386.0	9504.3	10571.1	12620.5	15006.8	15700.7	15629.0	14599.9	13325.1	10587.3	6996.0
70°	8394.5	8600.7	9879.1	12762.1	15908.7	16419.7	15901.5	13916.7	11308.0	7670.2	4399.9
72.5°	7014.0	7191.5	8321.0	10883.1	14745.1	15395.9	14694.9	11779.6	7991.1	4399.9	2241.2
75°	5459.5	5665.7	6707.4	8650.9	11039.1	11299.1	10947.6	8215.2	4392.7	1814.4	1018.4
77.5°	3331.3	3480.1	4290.5	5861.1	7724.0	7334.9	6216.1	4606.0	1927.4	869.6	629.3
80°	1473.8	1565.2	2113.9	3148.4	4462.6	4218.8	3325.9	1966.8	1054.2	552.2	439.3
82.5°	790.7	849.9	1041.7	1246.1	1959.7	2049.3	1662.0	1133.1	566.6	315.6	251.0
85°	347.8	381.9	473.3	451.8	643.7	632.9	638.3	778.1	270.7	145.2	163.2
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	19.7	104.0	26.9	43.0	37.7
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°	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9	4078.9
2.5°	4035.9	4003.6	3994.7	3983.9	3964.2	3930.1	3905.0	3876.3	3863.8	3849.4	3851.2
5°	3935.5	3896.0	3858.4	3810.0	3749.0	3680.9	3634.3	3580.5	3551.8	3524.9	3532.1
7.5°	3849.4	3788.5	3711.4	3609.2	3499.8	3377.9	3279.3	3202.2	3150.2	3114.3	3132.3
10°	3795.6	3723.9	3589.5	3422.7	3238.0	3051.6	2909.9	2777.3	2694.8	2630.2	2626.6
12.5°	3784.9	3691.6	3496.2	3254.2	2987.0	2737.8	2529.8	2350.5	2241.2	2160.5	2191.0
15°	3795.6	3677.3	3415.5	3098.2	2761.1	2424.0	2165.9	1959.7	1828.8	1755.3	1749.9
17.5°	3808.2	3663.0	3324.1	2929.7	2524.4	2139.0	1839.5	1620.8	1486.3	1412.8	1414.6
20°	3818.9	3641.4	3216.5	2745.0	2284.2	1873.6	1563.4	1355.5	1235.3	1181.5	1190.5
22.5°	3836.9	3619.9	3101.8	2547.8	2038.6	1617.2	1344.7	1176.2	1104.4	1068.6	1070.4
25°	3870.9	3607.4	2983.4	2332.6	1796.5	1412.8	1194.1	1081.1	1036.3	1014.8	1013.0
27.5°	3940.9	3618.1	2859.7	2124.6	1577.8	1256.8	1097.3	1023.8	993.3	978.9	977.1
30°	4057.4	3661.2	2752.2	1913.1	1389.5	1134.9	1030.9	986.1	968.2	955.6	953.8
32.5°	4234.9	3741.9	2635.6	1715.8	1237.1	1045.3	978.9	955.6	943.1	935.9	935.9
35°	4503.8	3888.9	2520.9	1543.7	1118.8	975.4	937.7	928.7	918.0	914.4	918.0
37.5°	4891.1	4123.7	2416.9	1393.1	1034.5	921.6	892.9	896.5	887.5	892.9	898.3
40°	5382.4	4437.5	2329.0	1269.4	971.8	882.1	853.4	866.0	860.6	866.0	875.0
42.5°	6004.5	4826.6	2262.7	1172.6	926.9	849.9	823.0	835.5	831.9	839.1	848.1
45°	6698.4	5339.4	2232.2	1104.4	894.7	826.5	797.9	806.8	803.2	808.6	817.6
47.5°	7363.6	5805.5	2259.1	1065.0	867.8	806.8	776.3	779.9	778.1	776.3	781.7
50°	7937.3	6176.7	2336.2	1052.5	849.9	787.1	758.4	760.2	754.8	744.1	747.7
52.5°	8405.3	6474.3	2382.8	1052.5	840.9	765.6	738.7	740.5	729.7	715.4	717.2
55°	8713.7	6594.4	2345.2	1050.7	837.3	747.7	719.0	720.8	710.0	692.1	693.9
57.5°	8801.5	6477.9	2187.4	1030.9	833.7	733.3	699.2	702.8	695.7	675.9	675.9
60°	8555.9	6051.1	1898.7	986.1	824.7	724.3	684.9	690.3	686.7	667.0	667.0
62.5°	7912.2	5292.7	1554.5	918.0	799.6	713.6	672.3	683.1	692.1	681.3	679.5
65°	6707.4	4240.3	1264.0	842.7	767.4	695.7	654.4	681.3	701.0	715.4	715.4
67.5°	5032.8	3035.4	1030.9	763.8	719.0	659.8	631.1	656.2	670.6	679.5	684.9
70°	3067.7	1785.8	812.2	672.3	649.0	606.0	584.5	559.4	539.7	536.1	537.9
72.5°	1500.7	1022.0	659.8	571.9	554.0	514.6	466.2	455.4	446.4	441.1	439.3
75°	826.5	711.8	545.1	475.1	442.9	394.4	383.7	365.8	362.2	355.0	356.8
77.5°	584.5	561.2	450.0	385.5	337.1	312.0	317.3	304.8	304.8	299.4	297.6
80°	439.3	441.1	346.0	281.5	249.2	240.3	245.6	245.6	242.0	240.3	238.5
82.5°	277.9	313.8	233.1	181.1	177.5	179.3	177.5	175.7	179.3	173.9	172.1
85°	191.8	225.9	141.6	107.6	107.6	105.8	109.4	107.6	111.2	105.8	105.8
87.5°	43.0	100.4	52.0	32.3	34.1	32.3	34.1	35.9	39.4	41.2	41.2
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)