

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: P638962

Luminaire Tested: GWS-SA4F-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23826.8 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

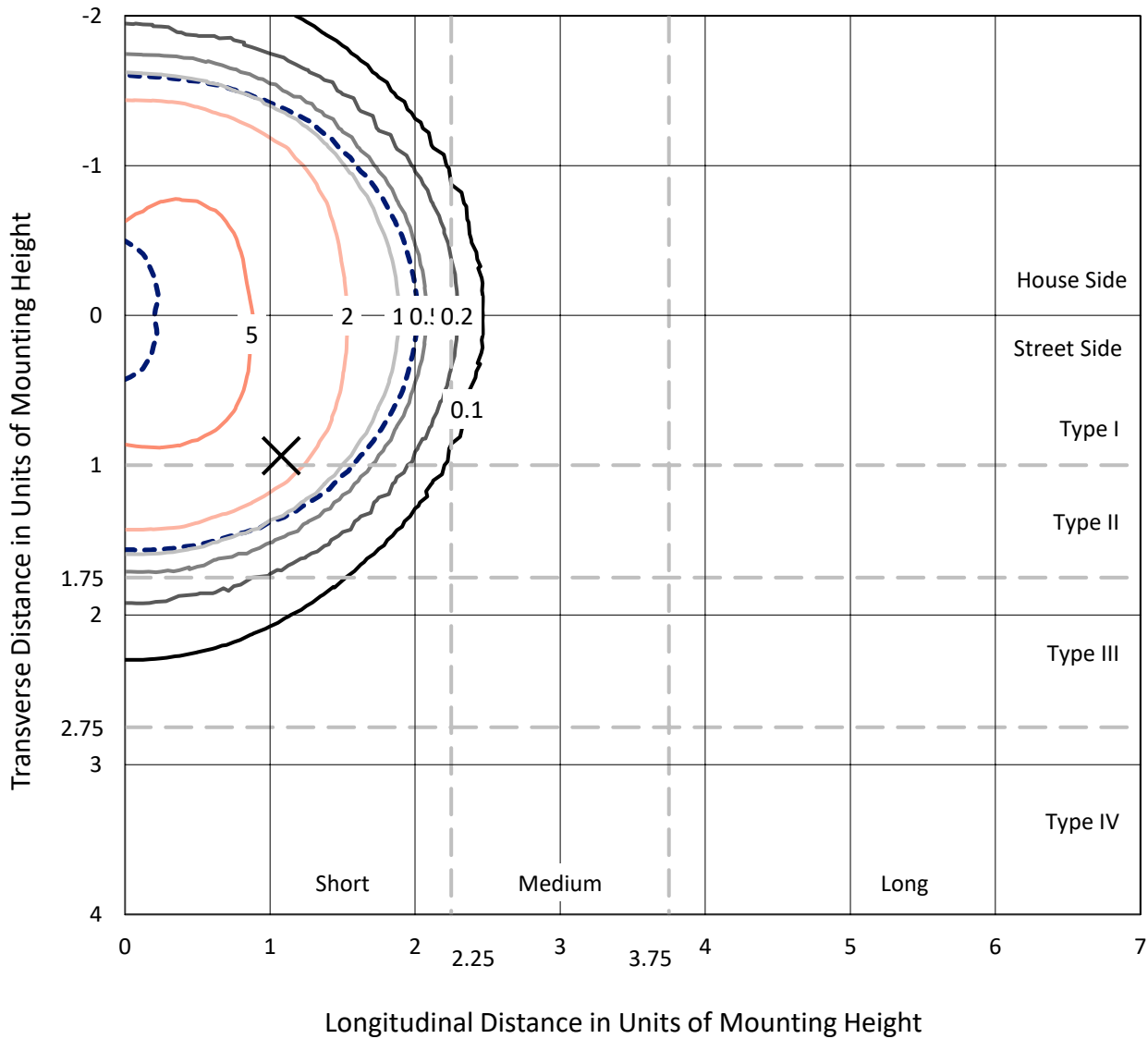
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

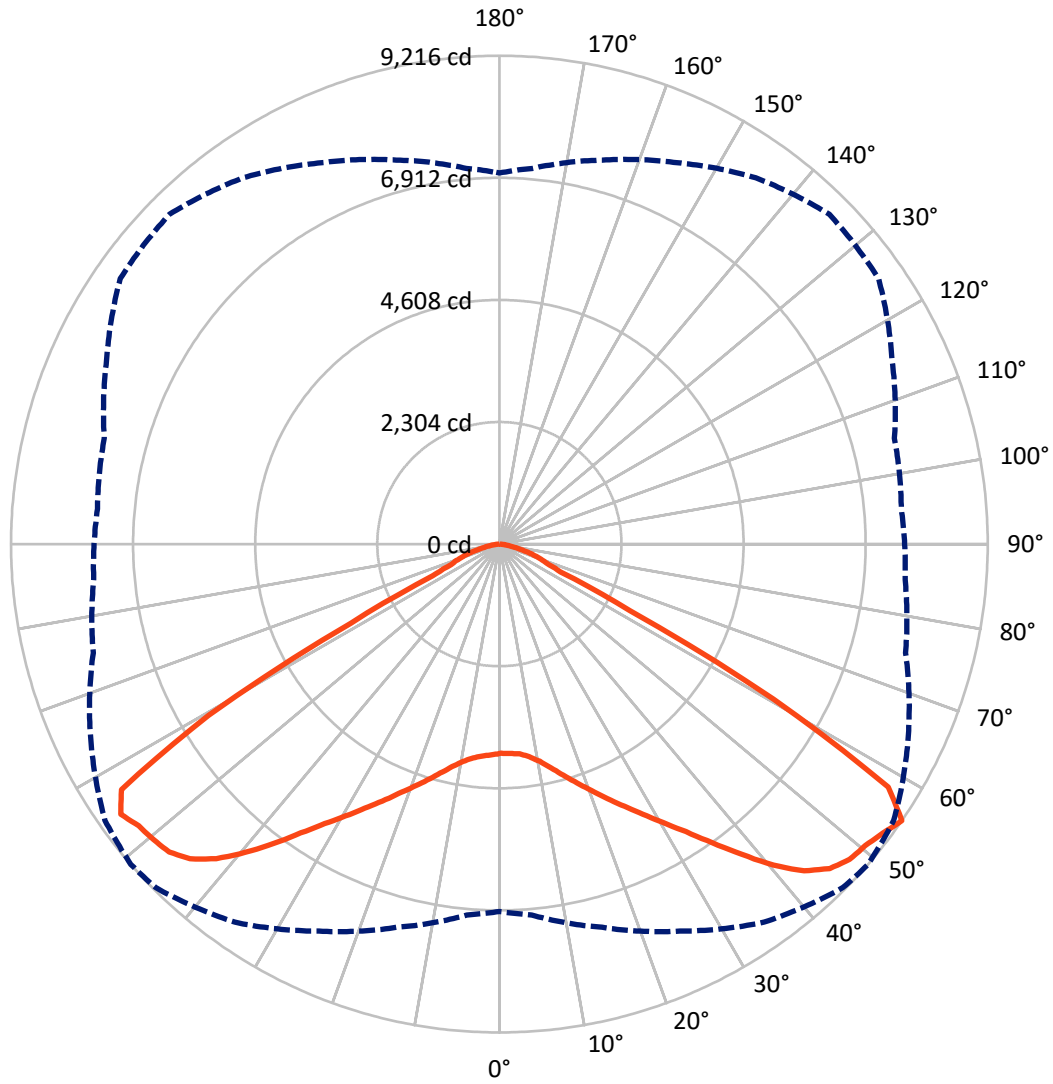
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11796.5	0.0	11796.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	12030.3	0.0	12030.3
	% Fixture	50.5	0.0	50.5
Total	Lumens	23826.8	0.0	23826.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.0	1.6
10°-20°	1270.0	5.3
20°-30°	2419.0	10.2
30°-40°	4100.7	17.2
40°-50°	6171.3	25.9
50°-60°	6755.1	28.4
60°-70°	2136.0	9.0
70°-80°	512.6	2.2
80°-90°	76.9	0.3
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°	23826.8	100.0
0°-180°	23826.8	100.0

Coefficient of Utilization



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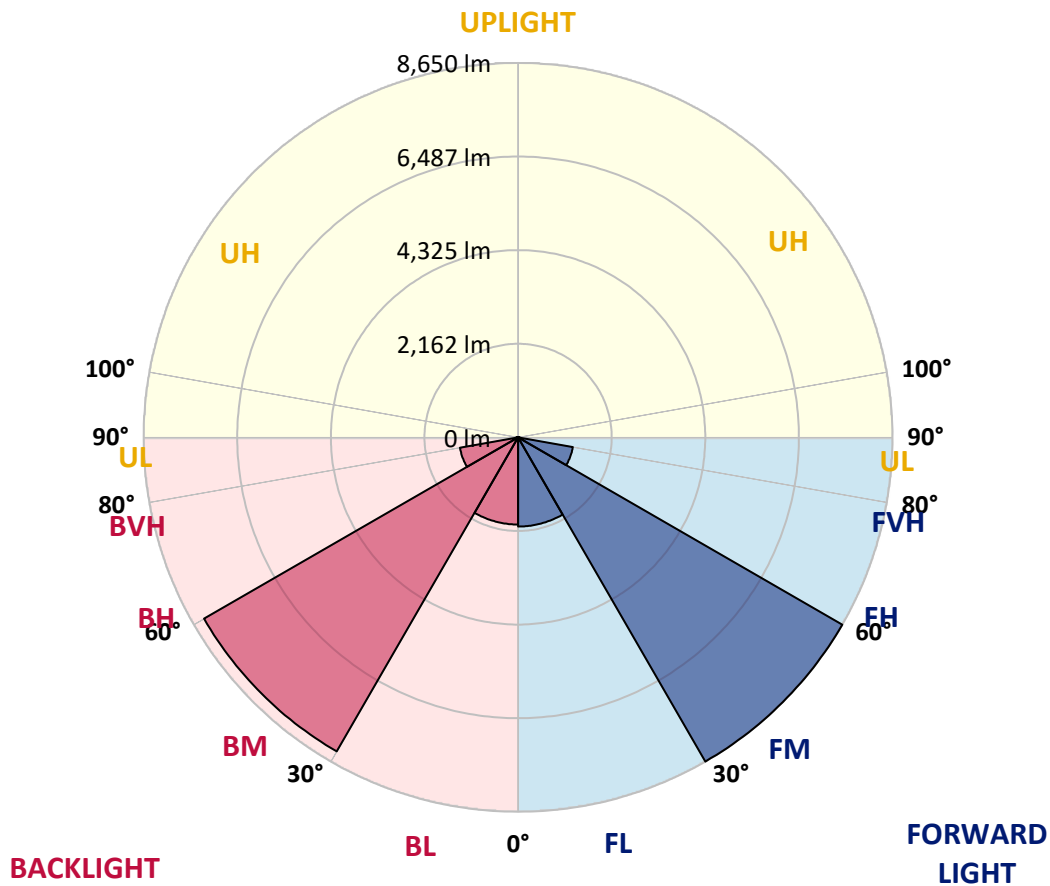
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.0	8.6			
FM (30°-60°)	8649.8	36.3			
FH (60°-80°)	1284.8	5.4			G1/1800
FVH (80°-90°)	35.6	0.1			G1/100
BL (0°-30°)	2014.0	8.5	B3/2500		
BM (30°-60°)	8377.4	35.2	B4/8500		
BH (60°-80°)	1363.8	5.7	B3/2500		G1/1800
BVH (80°-90°)	41.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1
2.5°	3888.9	3892.8	3900.5	3914.1	3927.7	3947.1	3954.8	3964.5	3962.6	3974.2	3974.2
5°	3869.5	3875.4	3887.0	3906.4	3929.6	3966.4	3976.1	3999.4	4022.6	4051.7	4061.4
7.5°	3892.8	3900.5	3914.1	3945.1	3980.0	4028.4	4047.8	4086.6	4131.1	4183.5	4204.8
10°	3937.4	3947.1	3970.3	4020.7	4076.9	4150.5	4167.9	4216.4	4288.1	4359.8	4402.4
12.5°	3987.7	4003.2	4045.9	4125.3	4208.6	4305.5	4332.7	4392.7	4470.2	4563.2	4621.4
15°	4045.9	4059.4	4125.3	4237.7	4367.5	4495.4	4526.4	4584.6	4671.7	4762.8	4844.2
17.5°	4167.9	4191.2	4268.7	4398.5	4549.7	4700.8	4735.7	4801.6	4871.3	4943.0	5020.5
20°	4334.6	4354.0	4452.8	4613.6	4791.9	4929.5	4964.3	5022.5	5055.4	5092.2	5158.1
22.5°	4501.2	4528.4	4640.7	4830.6	5039.9	5189.1	5216.2	5270.5	5247.2	5235.6	5278.2
25°	4708.6	4745.4	4855.8	5063.2	5276.3	5460.4	5481.7	5528.2	5489.4	5429.4	5427.4
27.5°	4966.3	4999.2	5113.5	5326.7	5537.9	5729.7	5770.4	5832.4	5747.2	5673.5	5621.2
30°	5272.4	5293.7	5419.7	5646.4	5863.4	6045.6	6097.9	6159.9	6095.9	5973.9	5921.5
32.5°	5629.0	5658.0	5803.4	6041.7	6235.5	6417.6	6469.9	6547.4	6477.7	6340.1	6274.2
35°	6057.2	6086.3	6239.3	6499.0	6696.6	6884.6	6921.4	6985.3	6898.1	6739.3	6686.9
37.5°	6522.2	6559.0	6752.8	6998.9	7206.2	7425.2	7427.1	7446.5	7322.5	7124.8	7066.7
40°	7045.4	7093.8	7287.6	7543.4	7793.3	7971.6	7969.7	7915.4	7706.2	7400.0	7310.9
42.5°	7562.8	7601.5	7797.2	8060.7	8310.7	8479.3	8428.9	8297.1	7994.9	7578.3	7460.1
45°	7936.7	7965.8	8171.2	8467.7	8721.5	8826.1	8735.1	8576.2	8167.3	7690.7	7516.3
47.5°	8113.1	8151.8	8359.2	8653.7	8940.5	9000.5	8892.0	8742.8	8268.1	7795.3	7560.8
50°	8018.1	8068.5	8303.0	8576.2	8899.8	9023.8	8946.3	8797.1	8374.7	7898.0	7640.3
52.5°	7772.0	7820.5	8116.9	8448.3	8814.5	9060.6	9058.7	8936.6	8496.7	7927.0	7644.1
55°	6931.1	7026.0	7487.2	8058.8	8709.9	9169.1	9215.6	9085.8	8516.1	7934.8	7684.8
57.5°	4510.9	4677.6	5115.5	5859.5	7165.5	8339.8	8653.7	8684.7	8376.6	7901.9	7692.6
60°	1883.4	2017.1	2364.0	2858.1	3937.4	5334.4	5942.9	6553.2	7289.6	7557.0	7620.9
62.5°	1170.4	1182.0	1216.9	1329.2	1689.7	2371.7	2763.1	3334.7	4429.5	5361.6	5791.7
65°	1056.0	1061.8	1069.6	1061.8	1079.3	1162.6	1267.2	1466.8	1912.5	2375.6	2925.9
67.5°	930.1	937.8	943.7	937.8	943.7	947.5	959.2	976.6	1058.0	1123.9	1174.2
70°	751.8	763.4	773.1	769.3	792.5	792.5	804.1	817.7	858.4	906.8	941.7
72.5°	573.6	563.9	575.5	579.4	600.7	612.3	629.7	645.2	691.8	720.8	765.4
75°	372.0	362.3	379.8	389.5	418.5	434.0	449.5	465.0	498.0	517.4	560.0
77.5°	201.5	199.6	217.0	230.6	261.6	281.0	292.6	304.2	331.3	337.2	364.3
80°	116.3	116.3	127.9	137.6	157.0	178.3	189.9	199.6	219.0	224.8	236.4
82.5°	63.9	63.9	69.8	75.6	91.1	102.7	112.4	120.1	137.6	143.4	149.2
85°	31.0	29.1	32.9	36.8	42.6	48.4	54.3	58.1	71.7	75.6	83.3
87.5°	3.9	3.9	3.9	5.8	7.8	11.6	13.6	13.6	21.3	25.2	29.1
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°	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1	3947.1
2.5°	3985.8	3960.6	3976.1	3981.9	3981.9	3976.1	3950.9	3943.2	3931.6	3914.1	3914.1
5°	4074.9	4055.6	4059.4	4049.8	4026.5	3997.4	3950.9	3927.7	3908.3	3887.0	3885.0
7.5°	4228.0	4202.8	4199.0	4162.1	4100.1	4038.1	3968.4	3925.7	3896.7	3869.5	3867.6
10°	4427.6	4404.3	4375.3	4301.6	4210.6	4119.5	4024.6	3966.4	3923.8	3885.0	3883.1
12.5°	4650.4	4623.3	4569.0	4460.5	4346.2	4257.1	4148.6	4059.4	3995.5	3943.2	3933.5
15°	4892.6	4853.9	4760.9	4633.0	4520.6	4425.7	4309.4	4181.5	4084.6	4001.3	3991.6
17.5°	5078.7	5028.3	4927.5	4807.4	4714.4	4619.4	4468.3	4307.5	4167.9	4063.3	4047.8
20°	5206.5	5165.9	5051.5	4962.4	4908.1	4824.8	4648.5	4466.4	4309.4	4177.6	4169.9
22.5°	5324.7	5276.3	5163.9	5111.6	5111.6	5055.4	4886.8	4671.7	4487.7	4334.6	4315.2
25°	5458.4	5406.1	5320.9	5315.1	5342.2	5317.0	5113.5	4883.0	4667.9	4495.4	4464.4
27.5°	5644.5	5586.3	5536.0	5570.8	5609.6	5582.5	5355.7	5088.3	4861.6	4687.2	4660.1
30°	5940.9	5869.2	5822.7	5865.4	5940.9	5861.5	5615.4	5332.5	5103.8	4912.0	4898.5
32.5°	6285.8	6204.5	6156.0	6223.8	6291.6	6167.6	5923.5	5652.2	5411.9	5210.4	5187.2
35°	6700.5	6597.8	6526.1	6617.2	6686.9	6564.9	6322.6	6064.9	5797.5	5588.3	5557.3
37.5°	7068.7	6944.6	6896.2	7024.1	7117.1	7037.7	6774.1	6531.9	6239.3	6010.7	5997.1
40°	7336.1	7214.0	7179.1	7390.3	7553.1	7533.7	7297.3	7020.2	6745.1	6481.5	6456.3
42.5°	7452.3	7367.1	7374.8	7659.6	7911.5	8035.6	7824.4	7527.9	7262.4	6989.2	6971.8
45°	7477.5	7425.2	7487.2	7843.7	8175.1	8428.9	8248.7	8000.7	7700.3	7436.8	7429.1
47.5°	7504.6	7475.6	7570.5	7948.4	8341.7	8636.2	8535.5	8279.7	7975.5	7717.8	7698.4
50°	7568.6	7557.0	7663.5	8022.0	8421.2	8692.4	8578.1	8324.3	8012.3	7758.5	7712.0
52.5°	7588.0	7568.6	7721.7	8136.3	8552.9	8690.5	8444.4	8113.1	7799.2	7516.3	7467.8
55°	7648.0	7613.1	7717.8	8178.9	8735.1	8802.9	8436.7	7940.6	7502.7	7117.1	7002.8
57.5°	7663.5	7624.8	7692.6	8109.2	8537.4	8477.3	7415.5	6407.9	5582.5	5154.2	5202.7
60°	7580.2	7591.8	7475.6	7429.1	6847.8	6045.6	4540.0	3629.3	2850.3	2520.9	2592.6
62.5°	5770.4	5818.9	5421.6	4714.4	3625.4	2873.6	1900.9	1476.5	1249.8	1191.7	1201.4
65°	2912.3	2978.2	2565.5	2121.8	1577.3	1275.0	1102.5	1067.7	1056.0	1042.5	1042.5
67.5°	1152.9	1172.3	1156.8	1083.2	1007.6	980.5	972.7	968.8	955.3	947.5	949.5
70°	926.2	941.7	918.5	872.0	841.0	839.0	835.1	827.4	817.7	817.7	823.5
72.5°	755.7	771.2	738.3	709.2	685.9	668.5	658.8	653.0	639.4	639.4	645.2
75°	556.1	565.8	538.7	534.8	509.6	492.2	476.7	468.9	451.5	443.7	449.5
77.5°	370.1	368.2	354.6	354.6	344.9	323.6	306.2	288.7	265.5	250.0	253.8
80°	240.3	240.3	234.5	234.5	224.8	207.3	186.0	168.6	155.0	143.4	143.4
82.5°	153.1	151.1	149.2	147.3	143.4	125.9	110.4	98.8	89.1	81.4	83.3
85°	85.3	85.3	81.4	81.4	73.6	63.9	56.2	48.4	42.6	40.7	40.7
87.5°	29.1	29.1	27.1	27.1	23.3	17.4	13.6	11.6	9.7	7.8	9.7
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)