

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: P640997

Luminaire Tested: GWS-SA5F-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640997
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-SA5F-722-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27102.2 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

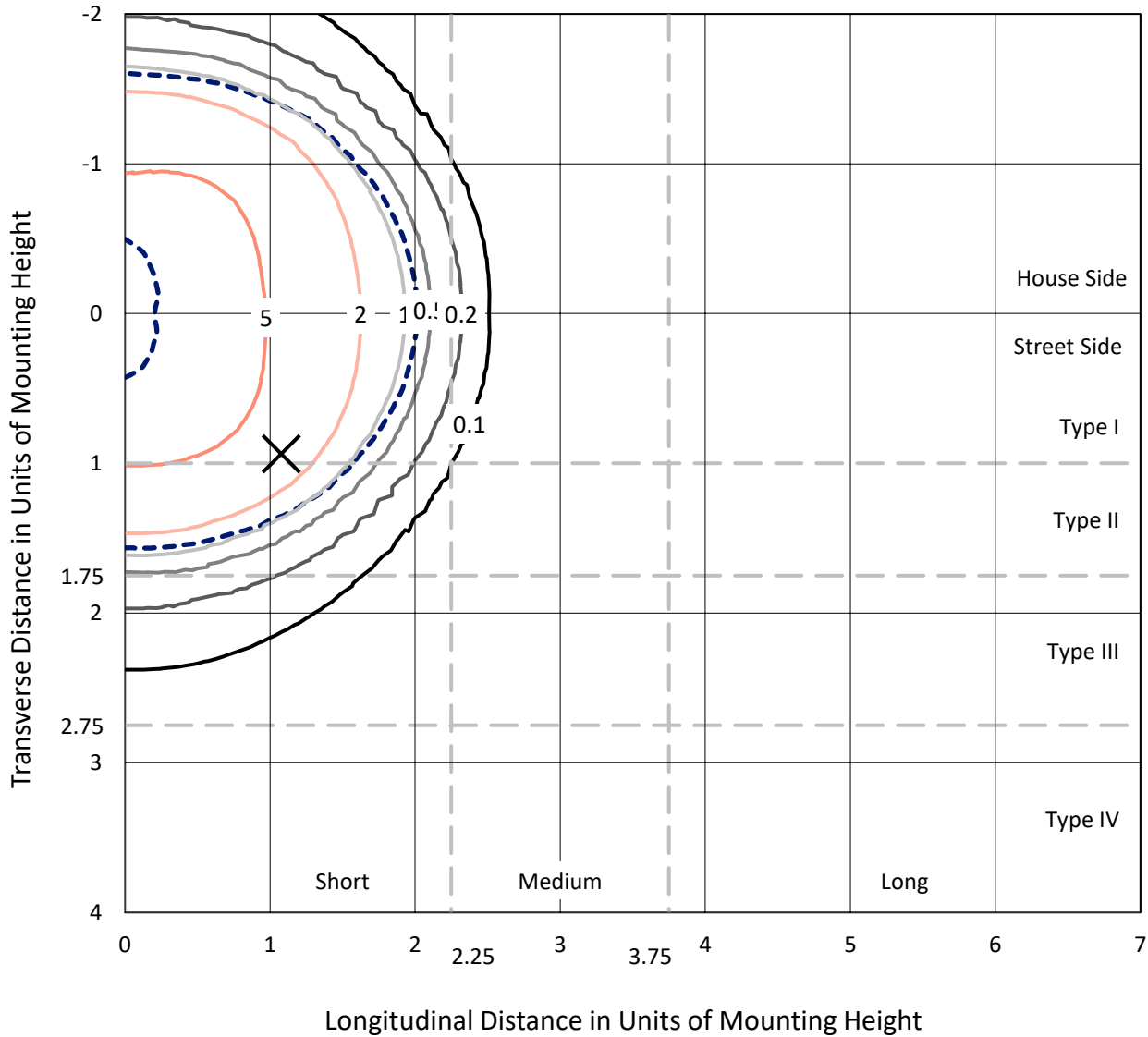
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

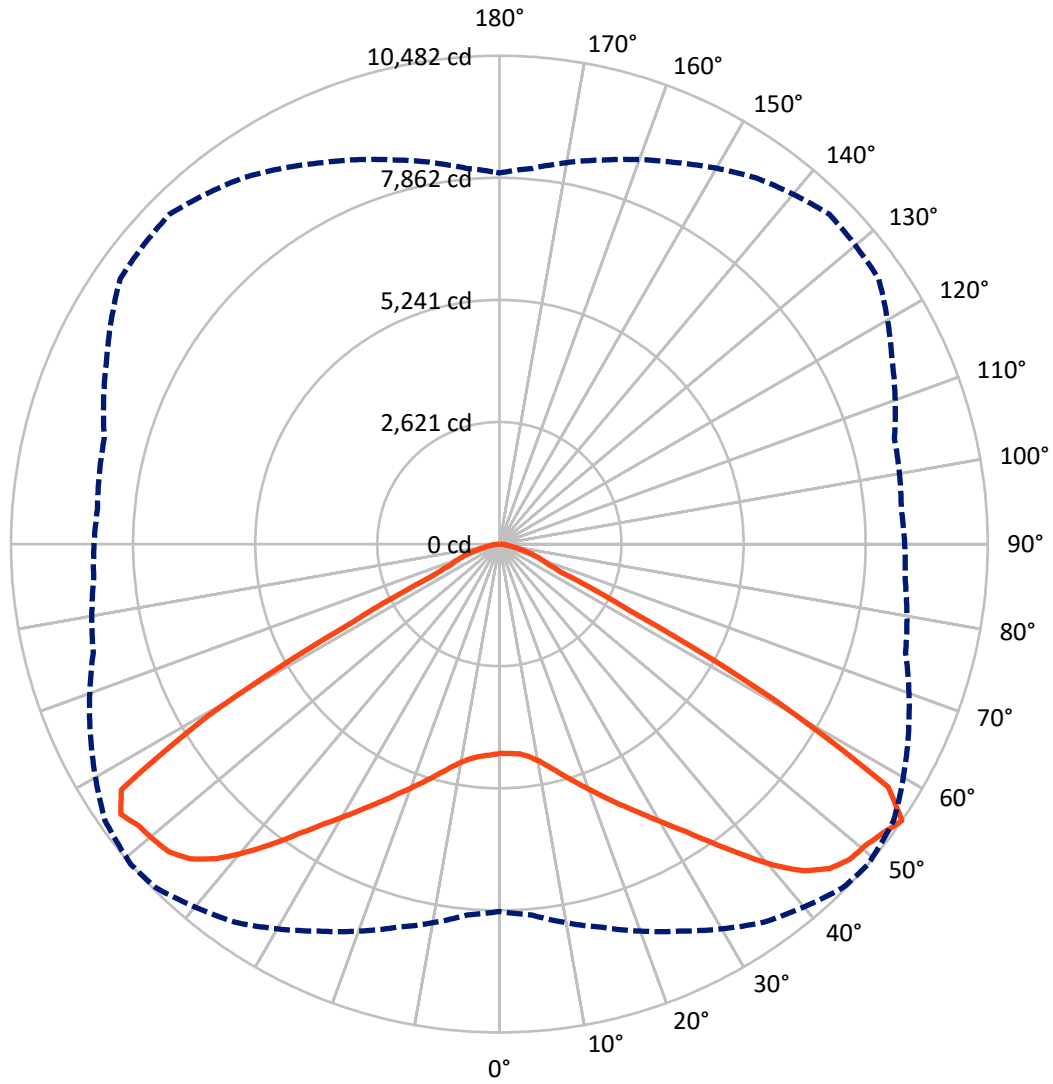
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	13418.2	0.0	13418.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	13684.1	0.0	13684.1
	% Fixture	50.5	0.0	50.5
Total	Lumens	27102.2	0.0	27102.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.0	1.6
10°-20°	1444.6	5.3
20°-30°	2751.6	10.2
30°-40°	4664.5	17.2
40°-50°	7019.7	25.9
50°-60°	7683.7	28.4
60°-70°	2429.6	9.0
70°-80°	583.1	2.2
80°-90°	87.5	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°	27102.2	100.0
0°-180°	27102.2	100.0

Coefficient of Utilization



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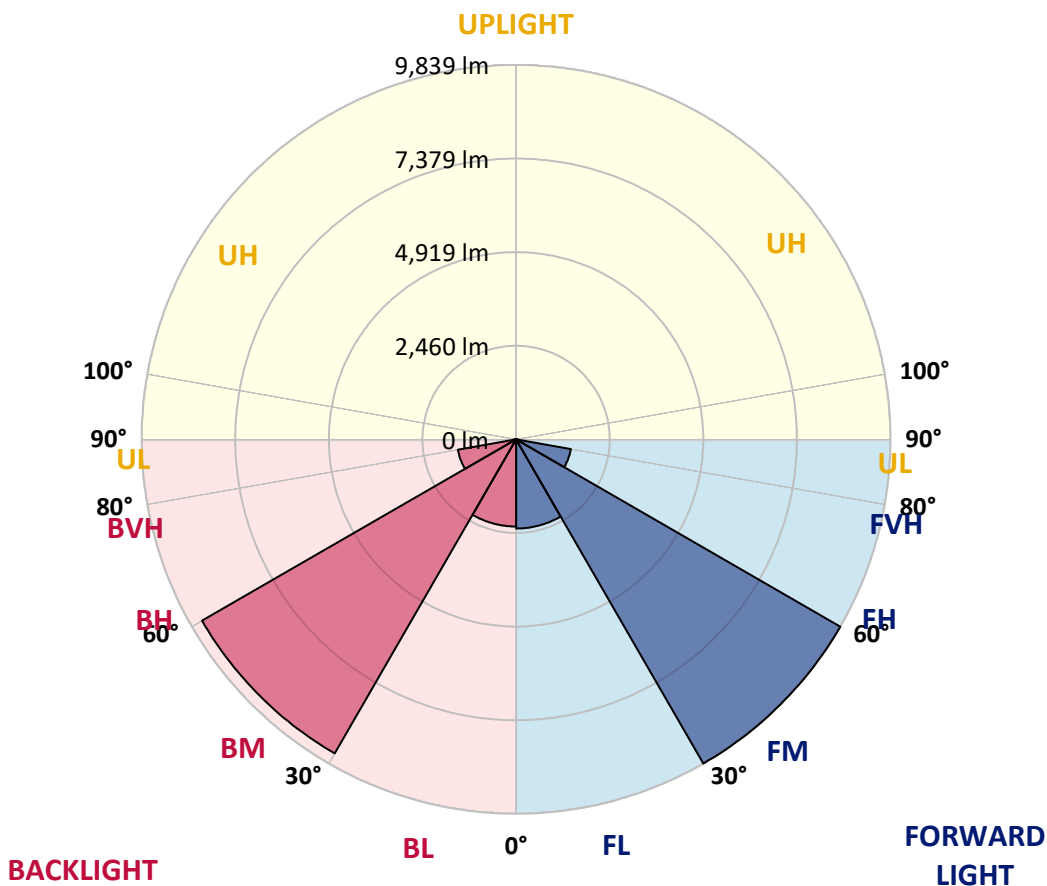
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2343.2	8.6			
FM (30°-60°)	9838.9	36.3			
FH (60°-80°)	1461.5	5.4			G1/1800
FVH (80°-90°)	40.5	0.1			G1/100
BL (0°-30°)	2290.9	8.5	B3/2500		
BM (30°-60°)	9529.0	35.2	B5		
BH (60°-80°)	1551.3	5.7	B3/2500		G1/1800
BVH (80°-90°)	47.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6
2.5°	4423.5	4427.9	4436.7	4452.2	4467.6	4489.6	4498.5	4509.5	4507.3	4520.5	4520.5
5°	4401.5	4408.1	4421.3	4443.4	4469.8	4511.7	4522.7	4549.2	4575.6	4608.7	4619.7
7.5°	4427.9	4436.7	4452.2	4487.4	4527.1	4582.2	4604.3	4648.3	4699.0	4758.5	4782.8
10°	4478.6	4489.6	4516.1	4573.4	4637.3	4721.1	4740.9	4796.0	4877.6	4959.1	5007.6
12.5°	4535.9	4553.6	4602.1	4692.4	4787.2	4897.4	4928.2	4996.6	5084.7	5190.5	5256.7
15°	4602.1	4617.5	4692.4	4820.3	4967.9	5113.4	5148.7	5214.8	5314.0	5417.5	5510.1
17.5°	4740.9	4767.4	4855.5	5003.2	5175.1	5347.0	5386.7	5461.6	5541.0	5622.5	5710.7
20°	4930.5	4952.5	5064.9	5247.8	5450.6	5607.1	5646.8	5712.9	5750.4	5792.2	5867.2
22.5°	5120.0	5150.9	5278.7	5494.7	5732.7	5902.4	5933.3	5995.0	5968.6	5955.3	6003.8
25°	5355.8	5397.7	5523.3	5759.2	6001.6	6211.0	6235.2	6288.1	6244.1	6175.7	6173.5
27.5°	5649.0	5686.4	5816.5	6058.9	6299.2	6517.4	6563.7	6634.2	6537.2	6453.4	6393.9
30°	5997.2	6021.5	6164.7	6422.6	6669.4	6876.6	6936.1	7006.7	6933.9	6795.1	6735.6
32.5°	6402.8	6435.8	6601.1	6872.2	7092.6	7299.8	7359.3	7447.5	7368.1	7211.6	7136.7
35°	6889.9	6922.9	7097.0	7392.4	7617.2	7831.0	7872.9	7945.6	7846.4	7665.7	7606.2
37.5°	7418.8	7460.7	7681.1	7961.0	8196.9	8445.9	8448.1	8470.2	8329.1	8104.3	8038.2
40°	8013.9	8069.0	8289.4	8580.4	8864.7	9067.4	9065.2	9003.5	8765.5	8417.3	8315.9
42.5°	8602.4	8646.5	8869.1	9168.8	9453.2	9644.9	9587.6	9437.7	9093.9	8620.0	8485.6
45°	9027.8	9060.8	9294.5	9631.7	9920.4	10039.4	9935.8	9755.1	9290.1	8747.9	8549.5
47.5°	9228.3	9272.4	9508.3	9843.3	10169.5	10237.8	10114.4	9944.7	9404.7	8866.9	8600.2
50°	9120.3	9177.7	9444.3	9755.1	10123.2	10264.2	10176.1	10006.4	9525.9	8983.7	8690.6
52.5°	8840.4	8895.5	9232.8	9609.6	10026.2	10306.1	10303.9	10165.1	9664.7	9016.8	8695.0
55°	7883.9	7991.9	8516.4	9166.6	9907.2	10429.6	10482.4	10334.8	9686.8	9025.6	8741.3
57.5°	5131.0	5320.6	5818.7	6665.0	8150.6	9486.2	9843.3	9878.5	9528.1	8988.1	8750.1
60°	2142.3	2294.4	2688.9	3251.0	4478.6	6067.7	6759.8	7454.1	8291.6	8595.8	8668.5
62.5°	1331.2	1344.5	1384.1	1512.0	1921.9	2697.8	3143.0	3793.2	5038.5	6098.6	6587.9
65°	1201.2	1207.8	1216.6	1207.8	1227.7	1322.4	1441.4	1668.5	2175.4	2702.2	3328.1
67.5°	1057.9	1066.8	1073.4	1066.8	1073.4	1077.8	1091.0	1110.8	1203.4	1278.3	1335.7
70°	855.2	868.4	879.4	875.0	901.5	901.5	914.7	930.1	976.4	1031.5	1071.2
72.5°	652.4	641.4	654.6	659.0	683.3	696.5	716.3	733.9	786.8	819.9	870.6
75°	423.2	412.2	432.0	443.0	476.1	493.7	511.3	529.0	566.4	588.5	637.0
77.5°	229.2	227.0	246.9	262.3	297.5	319.6	332.8	346.0	376.9	383.5	414.4
80°	132.2	132.2	145.5	156.5	178.5	202.8	216.0	227.0	249.1	255.7	268.9
82.5°	72.7	72.7	79.3	86.0	103.6	116.8	127.8	136.7	156.5	163.1	169.7
85°	35.3	33.1	37.5	41.9	48.5	55.1	61.7	66.1	81.5	86.0	94.8
87.5°	4.4	4.4	4.4	6.6	8.8	13.2	15.4	15.4	24.2	28.7	33.1
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°	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6	4489.6
2.5°	4533.7	4505.1	4522.7	4529.3	4529.3	4522.7	4494.1	4485.2	4472.0	4452.2	4452.2
5°	4635.1	4613.1	4617.5	4606.5	4580.0	4546.9	4494.1	4467.6	4445.6	4421.3	4419.1
7.5°	4809.2	4780.6	4776.2	4734.3	4663.8	4593.2	4513.9	4465.4	4432.3	4401.5	4399.3
10°	5036.2	5009.8	4976.7	4893.0	4789.4	4685.8	4577.8	4511.7	4463.2	4419.1	4416.9
12.5°	5289.7	5258.9	5197.1	5073.7	4943.7	4842.3	4718.9	4617.5	4544.7	4485.2	4474.2
15°	5565.2	5521.1	5415.3	5269.9	5142.0	5034.0	4901.8	4756.3	4646.1	4551.4	4540.3
17.5°	5776.8	5719.5	5604.9	5468.2	5362.4	5254.4	5082.5	4899.6	4740.9	4621.9	4604.3
20°	5922.3	5876.0	5746.0	5644.6	5582.9	5488.1	5287.5	5080.3	4901.8	4751.9	4743.1
22.5°	6056.7	6001.6	5873.8	5814.3	5814.3	5750.4	5558.6	5314.0	5104.6	4930.5	4908.4
25°	6208.8	6149.3	6052.3	6045.7	6076.6	6047.9	5816.5	5554.2	5309.5	5113.4	5078.1
27.5°	6420.4	6354.3	6297.0	6336.6	6380.7	6349.9	6092.0	5787.8	5530.0	5331.6	5300.7
30°	6757.6	6676.1	6623.2	6671.7	6757.6	6667.2	6387.3	6065.5	5805.5	5587.3	5571.8
32.5°	7149.9	7057.4	7002.3	7079.4	7156.5	7015.5	6737.8	6429.2	6155.9	5926.7	5900.2
35°	7621.6	7504.8	7423.2	7526.8	7606.2	7467.3	7191.8	6898.7	6594.5	6356.5	6321.2
37.5°	8040.4	7899.3	7844.2	7989.7	8095.5	8005.1	7705.3	7429.8	7097.0	6837.0	6821.5
40°	8344.5	8205.7	8166.0	8406.2	8591.4	8569.3	8300.4	7985.3	7672.3	7372.5	7343.9
42.5°	8476.8	8379.8	8388.6	8712.6	8999.1	9140.2	8899.9	8562.7	8260.8	7950.0	7930.2
45°	8505.4	8445.9	8516.4	8922.0	9298.9	9587.6	9382.6	9100.5	8758.9	8459.1	8450.3
47.5°	8536.3	8503.2	8611.2	9041.0	9488.4	9823.4	9708.8	9417.9	9071.9	8778.7	8756.7
50°	8609.0	8595.8	8717.0	9124.8	9578.8	9887.4	9757.3	9468.6	9113.7	8825.0	8772.1
52.5°	8631.0	8609.0	8783.1	9254.8	9728.7	9885.2	9605.2	9228.3	8871.3	8549.5	8494.4
55°	8699.4	8659.7	8778.7	9303.3	9935.8	10013.0	9596.4	9032.2	8534.1	8095.5	7965.4
57.5°	8717.0	8672.9	8750.1	9223.9	9711.0	9642.7	8434.9	7288.8	6349.9	5862.8	5917.9
60°	8622.2	8635.5	8503.2	8450.3	7789.1	6876.6	5164.1	4128.2	3242.2	2867.5	2949.0
62.5°	6563.7	6618.8	6166.9	5362.4	4123.8	3268.6	2162.2	1679.5	1421.6	1355.5	1366.5
65°	3312.7	3387.6	2918.2	2413.4	1794.1	1450.3	1254.1	1214.4	1201.2	1185.8	1185.8
67.5°	1311.4	1333.4	1315.8	1232.1	1146.1	1115.2	1106.4	1102.0	1086.6	1077.8	1080.0
70°	1053.5	1071.2	1044.7	991.8	956.6	954.4	949.9	941.1	930.1	930.1	936.7
72.5°	859.6	877.2	839.7	806.7	780.2	760.4	749.4	742.8	727.3	727.3	733.9
75°	632.6	643.6	612.7	608.3	579.7	559.8	542.2	533.4	513.5	504.7	511.3
77.5°	421.0	418.8	403.3	403.3	392.3	368.1	348.2	328.4	302.0	284.3	288.7
80°	273.3	273.3	266.7	266.7	255.7	235.8	211.6	191.8	176.3	163.1	163.1
82.5°	174.1	171.9	169.7	167.5	163.1	143.3	125.6	112.4	101.4	92.6	94.8
85°	97.0	97.0	92.6	92.6	83.8	72.7	63.9	55.1	48.5	46.3	46.3
87.5°	33.1	33.1	30.9	30.9	26.4	19.8	15.4	13.2	11.0	8.8	11.0
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)