

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: P638247

Luminaire Tested: GWS-SA4E-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638247
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-SA4E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26977.3 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 202.6
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

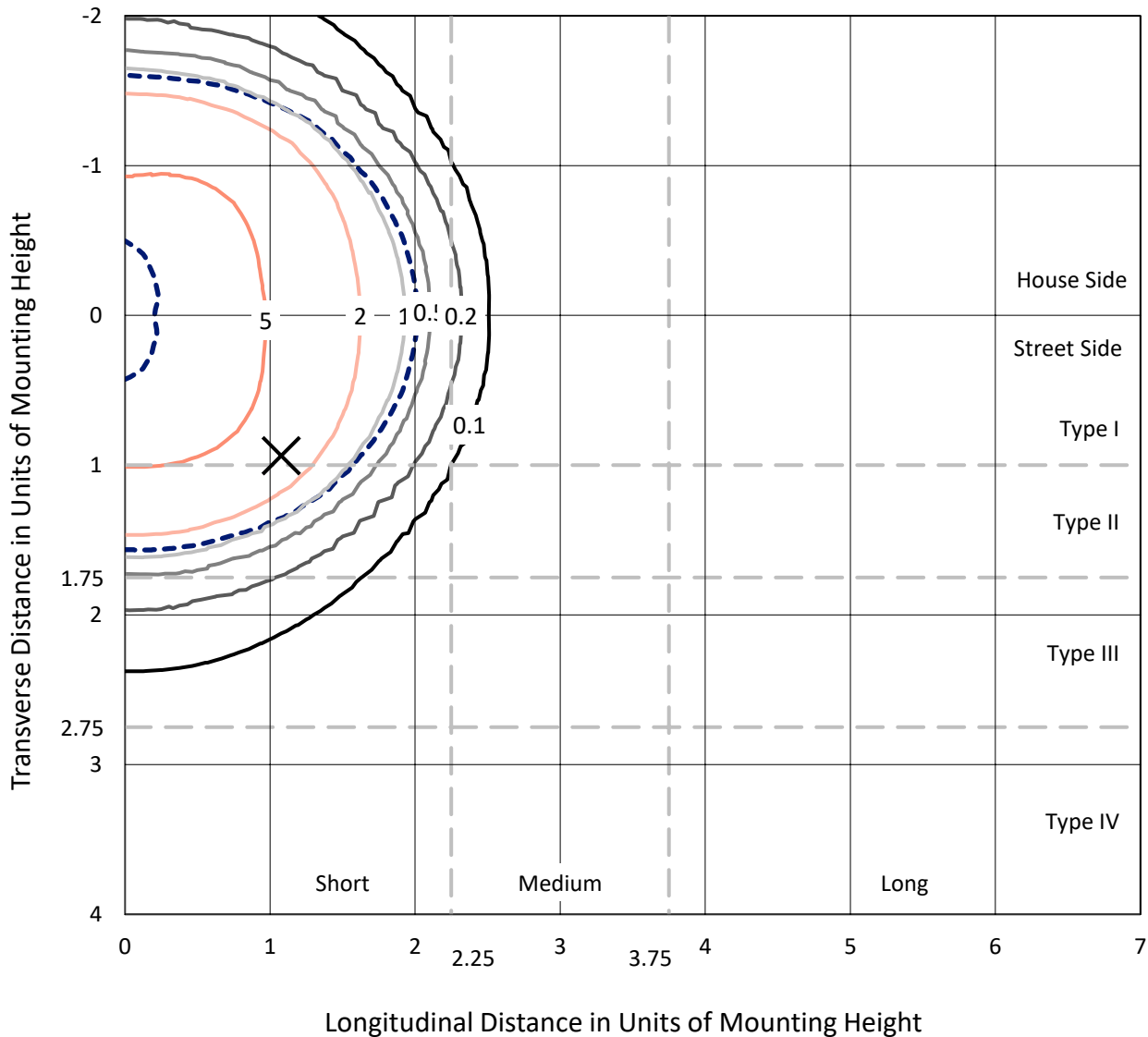


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Iso-Footcandle Lines of Horizontal Illumination

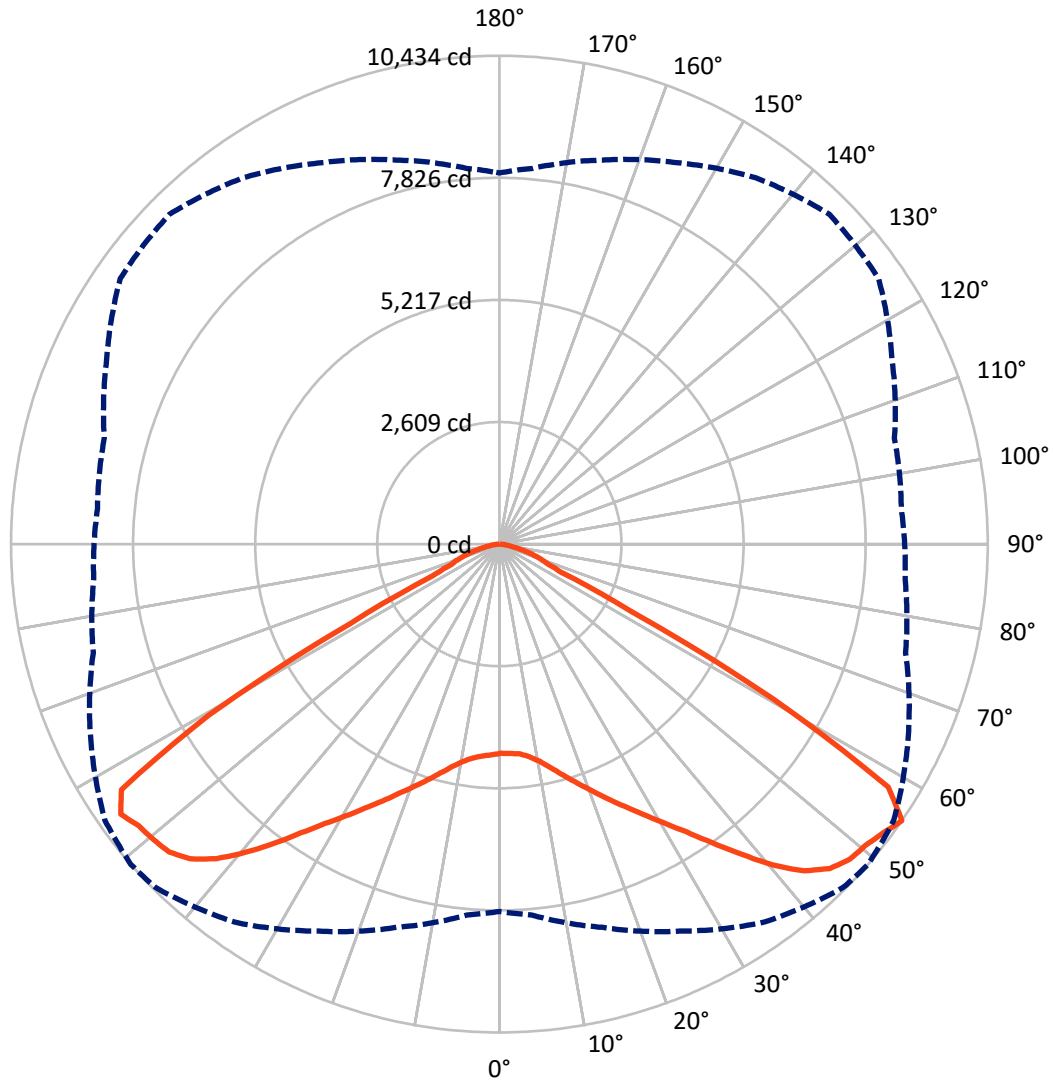
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	13356.3	0.0	13356.3
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	13621.0	0.0	13621.0
	% Fixture	50.5	0.0	50.5
Total	Lumens	26977.3	0.0	26977.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.9	1.6
10°-20°	1437.9	5.3
20°-30°	2738.9	10.2
30°-40°	4643.0	17.2
40°-50°	6987.3	25.9
50°-60°	7648.3	28.4
60°-70°	2418.4	9.0
70°-80°	580.4	2.2
80°-90°	87.1	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°	26977.3	100.0
0°-180°	26977.3	100.0

Coefficient of Utilization



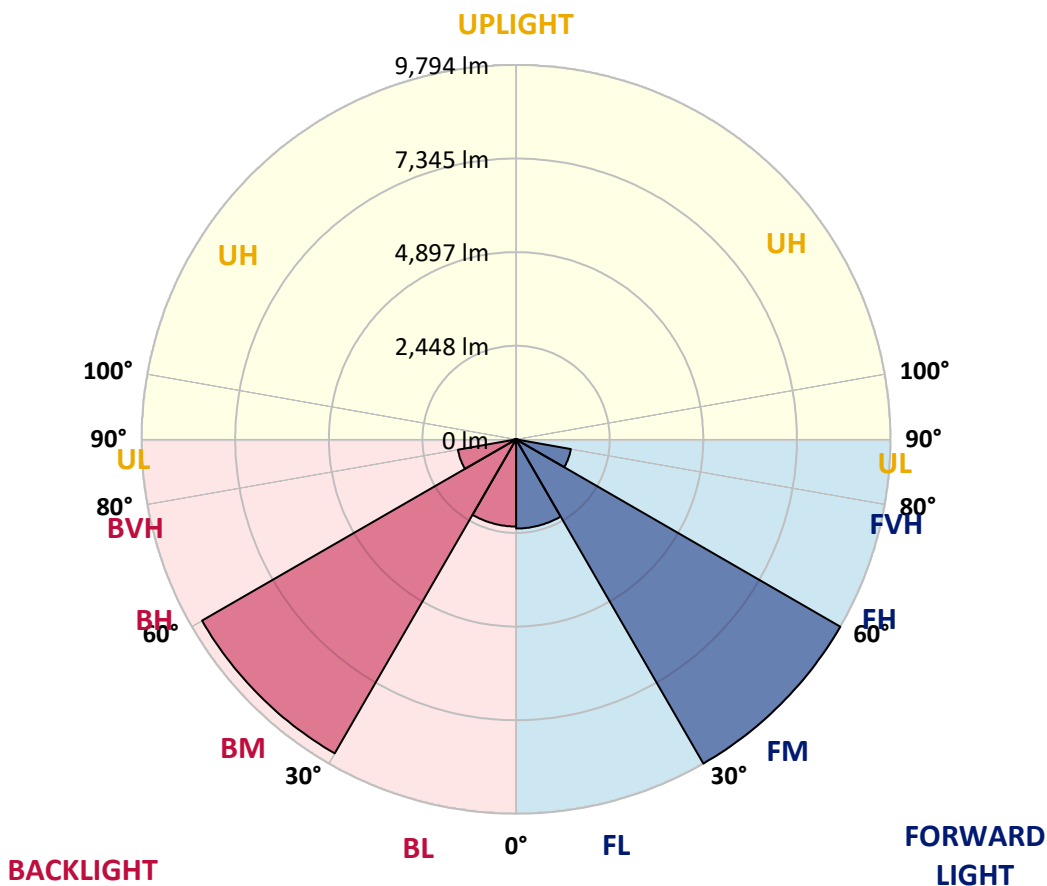
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2332.4	8.6			
FM (30°-60°)	9793.5	36.3			
FH (60°-80°)	1454.7	5.4			G1/1800
FVH (80°-90°)	40.3	0.1			G1/100
BL (0°-30°)	2280.3	8.5	B3/2500		
BM (30°-60°)	9485.1	35.2	B5		
BH (60°-80°)	1544.1	5.7	B3/2500		G1/1800
BVH (80°-90°)	46.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		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°	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0
2.5°	4403.1	4407.5	4416.3	4431.7	4447.0	4469.0	4477.7	4488.7	4486.5	4499.7	4499.7
5°	4381.2	4387.8	4400.9	4422.9	4449.2	4490.9	4501.9	4528.2	4554.5	4587.4	4598.4
7.5°	4407.5	4416.3	4431.7	4466.8	4506.2	4561.1	4583.0	4626.9	4677.4	4736.6	4760.7
10°	4458.0	4469.0	4495.3	4552.3	4615.9	4699.3	4719.1	4773.9	4855.1	4936.3	4984.5
12.5°	4515.0	4532.6	4580.8	4670.8	4765.1	4874.8	4905.5	4973.5	5061.3	5166.6	5232.4
15°	4580.8	4596.2	4670.8	4798.0	4945.0	5089.8	5124.9	5190.7	5289.5	5392.6	5484.7
17.5°	4719.1	4745.4	4833.1	4980.1	5151.3	5322.4	5361.9	5436.5	5515.4	5596.6	5684.4
20°	4907.7	4929.7	5041.6	5223.7	5425.5	5581.3	5620.7	5686.6	5723.9	5765.5	5840.1
22.5°	5096.4	5127.1	5254.4	5469.4	5706.3	5875.2	5906.0	5967.4	5941.1	5927.9	5976.2
25°	5331.2	5372.8	5497.9	5732.6	5974.0	6182.4	6206.5	6259.2	6215.3	6147.3	6145.1
27.5°	5622.9	5660.2	5789.7	6031.0	6270.1	6487.3	6533.4	6603.6	6507.1	6423.7	6364.5
30°	5969.6	5993.7	6136.3	6393.0	6638.7	6844.9	6904.2	6974.4	6902.0	6763.8	6704.5
32.5°	6373.2	6406.2	6570.7	6840.5	7059.9	7266.2	7325.4	7413.2	7334.2	7178.4	7103.8
35°	6858.1	6891.0	7064.3	7358.3	7582.1	7794.9	7836.6	7909.0	7810.2	7630.3	7571.1
37.5°	7384.6	7426.3	7645.7	7924.3	8159.1	8407.0	8409.2	8431.1	8290.7	8066.9	8001.1
40°	7977.0	8031.8	8251.2	8540.8	8823.8	9025.7	9023.5	8962.0	8725.1	8378.5	8277.5
42.5°	8562.8	8606.6	8828.2	9126.6	9409.6	9600.5	9543.4	9394.2	9052.0	8580.3	8446.5
45°	8986.2	9019.1	9251.6	9587.3	9874.7	9993.2	9890.1	9710.2	9247.2	8707.5	8510.1
47.5°	9185.8	9229.7	9464.4	9797.9	10122.6	10190.6	10067.8	9898.8	9361.3	8826.0	8560.6
50°	9078.3	9135.4	9400.8	9710.2	10076.5	10216.9	10129.2	9960.3	9482.0	8942.3	8650.5
52.5°	8799.7	8854.5	9190.2	9565.4	9980.0	10258.6	10256.4	10118.2	9620.2	8975.2	8654.9
55°	7847.5	7955.0	8477.2	9124.4	9861.5	10381.5	10434.1	10287.1	9642.1	8984.0	8701.0
57.5°	5107.4	5296.0	5791.9	6634.3	8113.0	9442.5	9797.9	9833.0	9484.2	8946.7	8709.7
60°	2132.5	2283.8	2676.5	3236.0	4458.0	6039.8	6728.7	7419.7	8253.4	8556.2	8628.6
62.5°	1325.1	1338.3	1377.8	1505.0	1913.1	2685.3	3128.5	3775.7	5015.2	6070.5	6557.5
65°	1195.7	1202.3	1211.0	1202.3	1222.0	1316.3	1434.8	1660.8	2165.4	2689.7	3312.8
67.5°	1053.1	1061.8	1068.4	1061.8	1068.4	1072.8	1086.0	1105.7	1197.9	1272.5	1329.5
70°	851.2	864.4	875.4	871.0	897.3	897.3	910.5	925.8	971.9	1026.7	1066.2
72.5°	649.4	638.4	651.6	656.0	680.1	693.3	713.0	730.6	783.2	816.1	866.6
75°	421.2	410.3	430.0	441.0	473.9	491.4	509.0	526.5	563.8	585.8	634.0
77.5°	228.2	226.0	245.7	261.1	296.2	318.1	331.3	344.4	375.2	381.7	412.5
80°	131.6	131.6	144.8	155.8	177.7	201.8	215.0	226.0	247.9	254.5	267.7
82.5°	72.4	72.4	79.0	85.6	103.1	116.3	127.2	136.0	155.8	162.3	168.9
85°	35.1	32.9	37.3	41.7	48.3	54.8	61.4	65.8	81.2	85.6	94.3
87.5°	4.4	4.4	4.4	6.6	8.8	13.2	15.4	15.4	24.1	28.5	32.9
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°	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0
2.5°	4512.8	4484.3	4501.9	4508.4	4508.4	4501.9	4473.3	4464.6	4451.4	4431.7	4431.7
5°	4613.8	4591.8	4596.2	4585.2	4558.9	4526.0	4473.3	4447.0	4425.1	4400.9	4398.7
7.5°	4787.1	4758.5	4754.2	4712.5	4642.3	4572.1	4493.1	4444.8	4411.9	4381.2	4379.0
10°	5013.0	4986.7	4953.8	4870.4	4767.3	4664.2	4556.7	4490.9	4442.6	4398.7	4396.6
12.5°	5265.3	5234.6	5173.2	5050.3	4920.9	4820.0	4697.1	4596.2	4523.8	4464.6	4453.6
15°	5539.6	5495.7	5390.4	5245.6	5118.3	5010.8	4879.2	4734.4	4624.7	4530.4	4519.4
17.5°	5750.2	5693.1	5579.1	5443.0	5337.7	5230.2	5059.1	4877.0	4719.1	4600.6	4583.0
20°	5895.0	5848.9	5719.5	5618.6	5557.1	5462.8	5263.1	5056.9	4879.2	4730.0	4721.3
22.5°	6028.8	5974.0	5846.7	5787.5	5787.5	5723.9	5533.0	5289.5	5081.0	4907.7	4885.8
25°	6180.2	6121.0	6024.4	6017.8	6048.6	6020.0	5789.7	5528.6	5285.1	5089.8	5054.7
27.5°	6390.8	6325.0	6267.9	6307.4	6351.3	6320.6	6063.9	5761.2	5504.5	5307.0	5276.3
30°	6726.5	6645.3	6592.6	6640.9	6726.5	6636.5	6357.9	6037.6	5778.7	5561.5	5546.2
32.5°	7117.0	7024.8	6970.0	7046.8	7123.6	6983.2	6706.7	6399.6	6127.5	5899.4	5873.0
35°	7586.5	7470.2	7389.0	7492.1	7571.1	7432.9	7158.7	6866.9	6564.1	6327.2	6292.1
37.5°	8003.3	7862.9	7808.1	7952.9	8058.2	7968.2	7669.8	7395.6	7064.3	6805.4	6790.1
40°	8306.1	8167.9	8128.4	8367.5	8551.8	8529.8	8262.2	7948.5	7636.9	7338.6	7310.0
42.5°	8437.7	8341.2	8349.9	8672.4	8957.7	9098.1	8858.9	8523.3	8222.7	7913.4	7893.6
45°	8466.2	8407.0	8477.2	8880.9	9256.0	9543.4	9339.4	9058.6	8718.5	8420.1	8411.4
47.5°	8496.9	8464.0	8571.5	8999.3	9444.7	9778.2	9664.1	9374.5	9030.1	8738.3	8716.3
50°	8569.3	8556.2	8676.8	9082.7	9534.6	9841.8	9712.3	9425.0	9071.7	8784.3	8731.7
52.5°	8591.3	8569.3	8742.7	9212.1	9683.8	9839.6	9561.0	9185.8	8830.4	8510.1	8455.3
55°	8659.3	8619.8	8738.3	9260.4	9890.1	9966.8	9552.2	8990.6	8494.7	8058.2	7928.7
57.5°	8676.8	8633.0	8709.7	9181.4	9666.3	9598.3	8396.0	7255.2	6320.6	5835.7	5890.6
60°	8582.5	8595.7	8464.0	8411.4	7753.2	6844.9	5140.3	4109.2	3227.2	2854.3	2935.4
62.5°	6533.4	6588.3	6138.5	5337.7	4104.8	3253.5	2152.2	1671.7	1415.1	1349.2	1360.2
65°	3297.4	3372.0	2904.7	2402.3	1785.8	1443.6	1248.3	1208.8	1195.7	1180.3	1180.3
67.5°	1305.4	1327.3	1309.8	1226.4	1140.8	1110.1	1101.3	1096.9	1081.6	1072.8	1075.0
70°	1048.7	1066.2	1039.9	987.3	952.1	950.0	945.6	936.8	925.8	925.8	932.4
72.5°	855.6	873.2	835.9	803.0	776.6	756.9	745.9	739.3	724.0	724.0	730.6
75°	629.6	640.6	609.9	605.5	577.0	557.2	539.7	530.9	511.2	502.4	509.0
77.5°	419.0	416.8	401.5	401.5	390.5	366.4	346.6	326.9	300.6	283.0	287.4
80°	272.0	272.0	265.5	265.5	254.5	234.7	210.6	190.9	175.5	162.3	162.3
82.5°	173.3	171.1	168.9	166.7	162.3	142.6	125.1	111.9	100.9	92.1	94.3
85°	96.5	96.5	92.1	92.1	83.4	72.4	63.6	54.8	48.3	46.1	46.1
87.5°	32.9	32.9	30.7	30.7	26.3	19.7	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)