

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: P638302

Luminaire Tested: GWS-SA4E-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638302
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27595.5 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

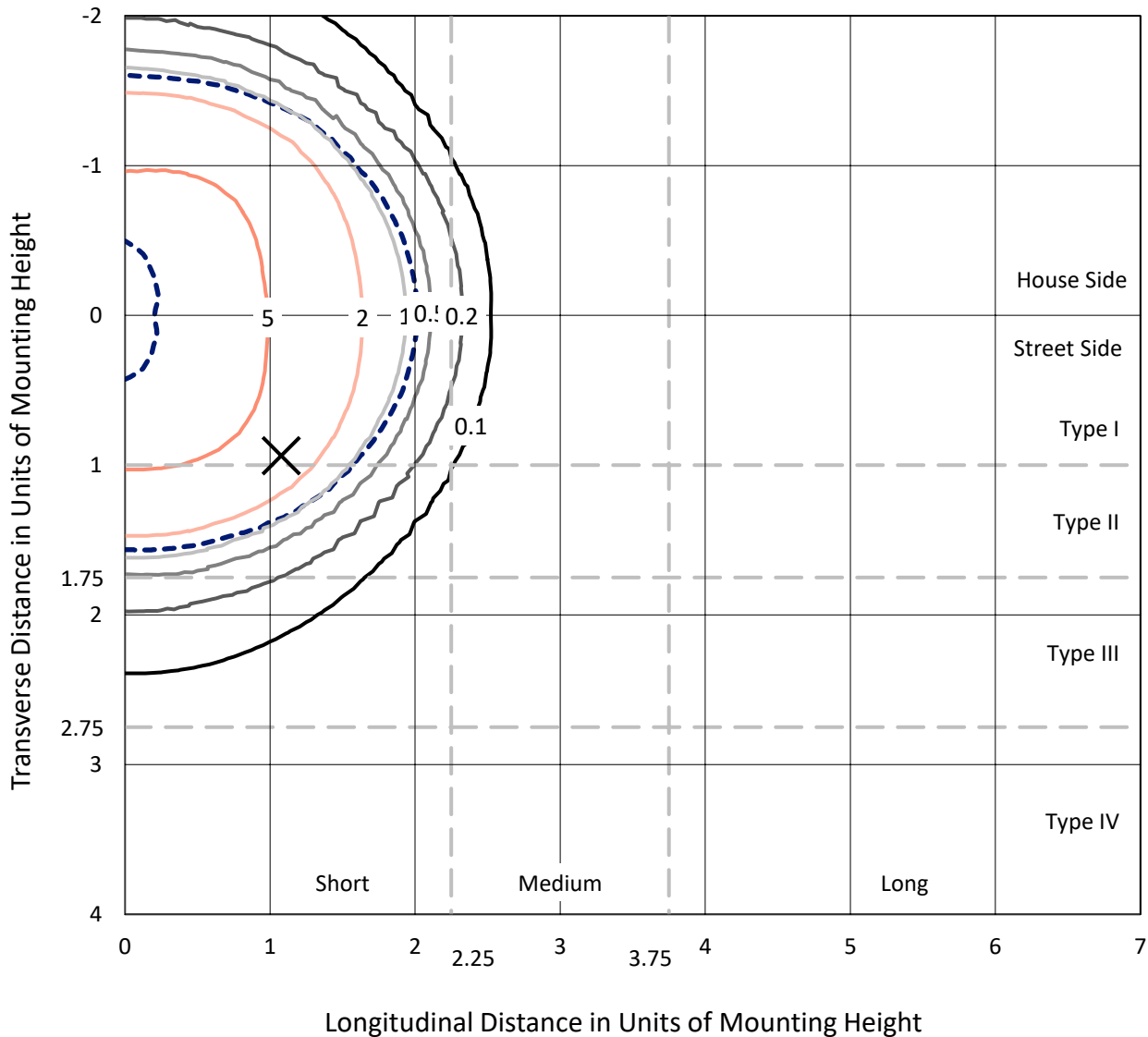
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638302
 CATALOG NUMBER: GWS-SA4E-750-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

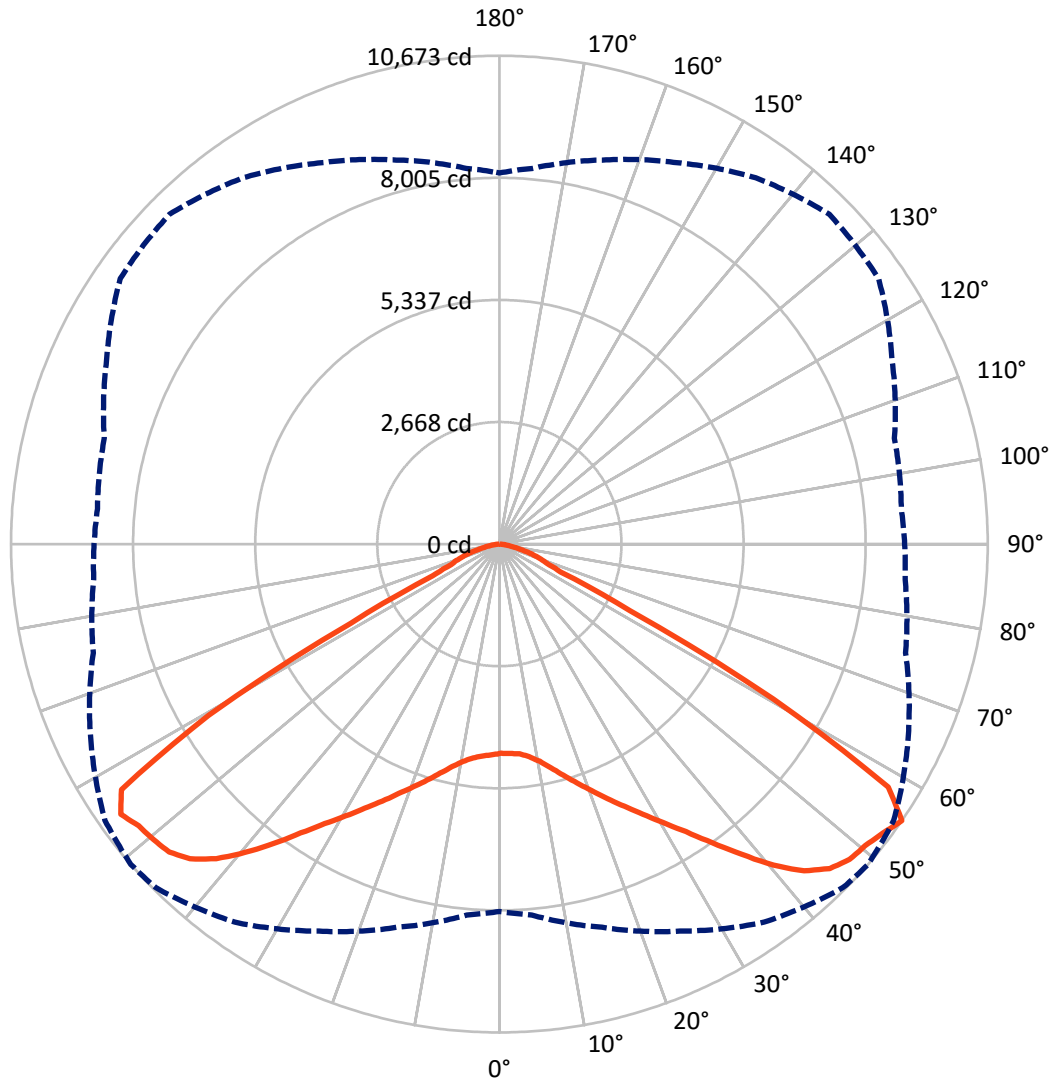
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

REPORT NUMBER: P638302
CATALOG NUMBER: GWS-SA4E-750-U-RW-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638302

CATALOG NUMBER: GWS-SA4E-750-U-RW-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13662.4	0.0	13662.4
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	13933.1	0.0	13933.1
	% Fixture	50.5	0.0	50.5
Total	Lumens	27595.5	0.0	27595.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.9	1.6
10°-20°	1470.9	5.3
20°-30°	2801.6	10.2
30°-40°	4749.4	17.2
40°-50°	7147.4	25.9
50°-60°	7823.6	28.4
60°-70°	2473.9	9.0
70°-80°	593.7	2.2
80°-90°	89.1	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°	27595.5	100.0
0°-180°	27595.5	100.0

Coefficient of Utilization



REPORT NUMBER: P638302

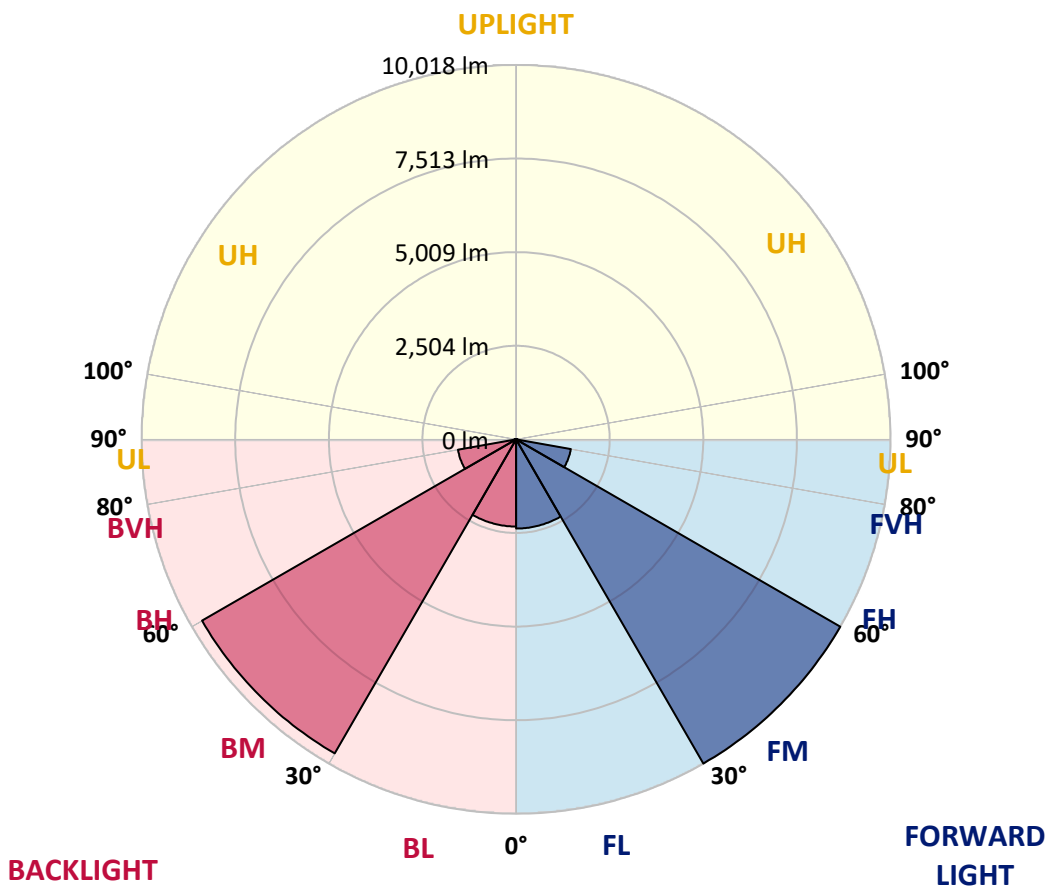
CATALOG NUMBER: GWS-SA4E-750-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2385.9	8.6			
FM (30°-60°)	10017.9	36.3			
FH (60°-80°)	1488.1	5.4			G1/1800
FVH (80°-90°)	41.3	0.1			G1/100
BL (0°-30°)	2332.6	8.5	B3/2500		
BM (30°-60°)	9702.4	35.2	B5		
BH (60°-80°)	1579.5	5.7	B3/2500		G1/1800
BVH (80°-90°)	47.9	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





REPORT NUMBER: P638302

CATALOG NUMBER: GWS-SA4E-750-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4
2.5°	4504.0	4508.5	4517.5	4533.2	4548.9	4571.4	4580.3	4591.6	4589.3	4602.8	4602.8
5°	4481.6	4488.3	4501.8	4524.2	4551.2	4593.8	4605.0	4632.0	4658.9	4692.5	4703.8
7.5°	4508.5	4517.5	4533.2	4569.1	4609.5	4665.6	4688.1	4732.9	4784.6	4845.1	4869.8
10°	4560.1	4571.4	4598.3	4656.6	4721.7	4807.0	4827.2	4883.3	4966.3	5049.4	5098.7
12.5°	4618.5	4636.4	4685.8	4777.8	4874.3	4986.5	5018.0	5087.5	5177.3	5285.0	5352.3
15°	4685.8	4701.5	4777.8	4908.0	5058.3	5206.5	5242.4	5309.7	5410.7	5516.2	5610.4
17.5°	4827.2	4854.1	4943.9	5094.3	5269.3	5444.3	5484.7	5561.0	5641.8	5724.9	5814.6
20°	5020.2	5042.6	5157.1	5343.4	5549.8	5709.2	5749.5	5816.9	5855.0	5897.7	5974.0
22.5°	5213.2	5244.6	5374.8	5594.7	5837.1	6009.9	6041.3	6104.1	6077.2	6063.7	6113.1
25°	5453.3	5496.0	5623.9	5864.0	6110.9	6324.1	6348.7	6402.6	6357.7	6288.1	6285.9
27.5°	5751.8	5789.9	5922.3	6169.2	6413.8	6636.0	6683.1	6754.9	6656.2	6570.9	6510.3
30°	6106.4	6131.1	6276.9	6539.5	6790.8	7001.8	7062.4	7134.2	7060.1	6918.8	6858.2
32.5°	6519.3	6553.0	6721.3	6997.3	7221.7	7432.7	7493.3	7583.0	7502.2	7342.9	7266.6
35°	7015.3	7048.9	7226.2	7526.9	7755.8	7973.5	8016.2	8090.2	7989.2	7805.2	7744.6
37.5°	7553.9	7596.5	7820.9	8105.9	8346.0	8599.6	8601.9	8624.3	8480.7	8251.8	8184.5
40°	8159.8	8215.9	8440.3	8736.5	9026.0	9232.5	9230.2	9167.4	8925.0	8570.5	8467.2
42.5°	8759.0	8803.9	9030.5	9335.7	9625.2	9820.5	9762.1	9609.5	9259.4	8776.9	8640.0
45°	9192.1	9225.8	9463.6	9807.0	10101.0	10222.2	10116.7	9932.7	9459.2	8907.1	8705.1
47.5°	9396.3	9441.2	9681.3	10022.4	10354.6	10424.1	10298.5	10125.7	9575.8	9028.3	8756.7
50°	9286.4	9344.7	9616.2	9932.7	10307.4	10451.1	10361.3	10188.5	9699.3	9147.2	8848.7
52.5°	9001.3	9057.4	9400.8	9784.6	10208.7	10493.7	10491.5	10350.1	9840.7	9180.9	8853.2
55°	8027.4	8137.3	8671.4	9333.5	10087.5	10619.4	10673.2	10522.9	9863.1	9189.9	8900.4
57.5°	5224.4	5417.4	5924.6	6786.4	8298.9	9658.9	10022.4	10058.3	9701.5	9151.7	8909.3
60°	2181.3	2336.2	2737.9	3310.1	4560.1	6178.2	6882.9	7589.8	8442.5	8752.2	8826.3
62.5°	1355.5	1368.9	1409.3	1539.5	1956.9	2746.9	3200.2	3862.2	5130.2	6209.6	6707.8
65°	1223.1	1229.8	1238.8	1229.8	1250.0	1346.5	1467.7	1698.8	2215.0	2751.3	3388.7
67.5°	1077.2	1086.2	1092.9	1086.2	1092.9	1097.4	1110.9	1131.1	1225.3	1301.6	1360.0
70°	870.7	884.2	895.4	890.9	917.9	917.9	931.3	947.0	994.2	1050.3	1090.7
72.5°	664.3	653.1	666.5	671.0	695.7	709.2	729.4	747.3	801.2	834.8	886.4
75°	430.9	419.7	439.9	451.1	484.7	502.7	520.6	538.6	576.8	599.2	648.6
77.5°	233.4	231.1	251.3	267.1	303.0	325.4	338.9	352.3	383.8	390.5	421.9
80°	134.6	134.6	148.1	159.3	181.8	206.5	219.9	231.1	253.6	260.3	273.8
82.5°	74.1	74.1	80.8	87.5	105.5	118.9	130.2	139.1	159.3	166.1	172.8
85°	35.9	33.7	38.2	42.6	49.4	56.1	62.8	67.3	83.0	87.5	96.5
87.5°	4.5	4.5	4.5	6.7	9.0	13.5	15.7	15.7	24.7	29.2	33.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638302

CATALOG NUMBER: GWS-SA4E-750-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4	4571.4
2.5°	4616.2	4587.1	4605.0	4611.8	4611.8	4605.0	4575.9	4566.9	4553.4	4533.2	4533.2
5°	4719.5	4697.0	4701.5	4690.3	4663.4	4629.7	4575.9	4548.9	4526.5	4501.8	4499.5
7.5°	4896.8	4867.6	4863.1	4820.5	4748.7	4676.8	4596.0	4546.7	4513.0	4481.6	4479.4
10°	5127.9	5101.0	5067.3	4982.0	4876.6	4771.1	4661.1	4593.8	4544.4	4499.5	4497.3
12.5°	5386.0	5354.6	5291.7	5166.1	5033.7	4930.4	4804.8	4701.5	4627.5	4566.9	4555.7
15°	5666.5	5621.6	5513.9	5365.8	5235.6	5125.7	4991.0	4842.9	4730.7	4634.2	4623.0
17.5°	5882.0	5823.6	5706.9	5567.8	5460.1	5350.1	5175.0	4988.8	4827.2	4706.0	4688.1
20°	6030.1	5982.9	5850.5	5747.3	5684.5	5588.0	5383.7	5172.8	4991.0	4838.4	4829.4
22.5°	6167.0	6110.9	5980.7	5920.1	5920.1	5855.0	5659.8	5410.7	5197.5	5020.2	4997.8
25°	6321.8	6261.2	6162.5	6155.7	6187.2	6158.0	5922.3	5655.3	5406.2	5206.5	5170.6
27.5°	6537.2	6469.9	6411.6	6452.0	6496.9	6465.4	6202.9	5893.2	5630.6	5428.6	5397.2
30°	6880.6	6797.6	6743.7	6793.1	6880.6	6788.6	6503.6	6175.9	5911.1	5689.0	5673.2
32.5°	7280.1	7185.8	7129.7	7208.3	7286.8	7143.2	6860.4	6546.2	6267.9	6034.6	6007.6
35°	7760.3	7641.4	7558.3	7663.8	7744.6	7603.2	7322.7	7024.2	6714.5	6472.2	6436.3
37.5°	8186.7	8043.1	7987.0	8135.1	8242.8	8150.8	7845.6	7565.1	7226.2	6961.4	6945.7
40°	8496.4	8355.0	8314.6	8559.2	8747.8	8725.3	8451.5	8130.6	7811.9	7506.7	7477.6
42.5°	8631.1	8532.3	8541.3	8871.2	9162.9	9306.5	9061.9	8718.6	8411.1	8094.7	8074.5
45°	8660.2	8599.6	8671.4	9084.4	9468.1	9762.1	9553.4	9266.2	8918.3	8613.1	8604.1
47.5°	8691.6	8658.0	8767.9	9205.6	9661.1	10002.2	9885.5	9589.3	9237.0	8938.5	8916.1
50°	8765.7	8752.2	8875.7	9290.8	9753.1	10067.3	9934.9	9640.9	9279.6	8985.6	8931.8
52.5°	8788.1	8765.7	8943.0	9423.2	9905.7	10065.1	9780.1	9396.3	9032.8	8705.1	8649.0
55°	8857.7	8817.3	8938.5	9472.6	10116.7	10195.2	9771.1	9196.6	8689.4	8242.8	8110.4
57.5°	8875.7	8830.8	8909.3	9391.8	9887.8	9818.2	8588.4	7421.5	6465.4	5969.5	6025.6
60°	8779.2	8792.6	8658.0	8604.1	7930.9	7001.8	5258.1	4203.3	3301.2	2919.7	3002.7
62.5°	6683.1	6739.2	6279.2	5460.1	4198.8	3328.1	2201.5	1710.1	1447.5	1380.2	1391.4
65°	3373.0	3449.3	2971.3	2457.4	1826.7	1476.7	1276.9	1236.5	1223.1	1207.4	1207.4
67.5°	1335.3	1357.7	1339.8	1254.5	1167.0	1135.5	1126.6	1122.1	1106.4	1097.4	1099.6
70°	1072.7	1090.7	1063.7	1009.9	974.0	971.7	967.2	958.3	947.0	947.0	953.8
72.5°	875.2	893.2	855.0	821.4	794.4	774.2	763.0	756.3	740.6	740.6	747.3
75°	644.1	655.3	623.9	619.4	590.2	570.0	552.1	543.1	522.9	513.9	520.6
77.5°	428.6	426.4	410.7	410.7	399.5	374.8	354.6	334.4	307.5	289.5	294.0
80°	278.3	278.3	271.5	271.5	260.3	240.1	215.4	195.2	179.5	166.1	166.1
82.5°	177.3	175.0	172.8	170.6	166.1	145.9	127.9	114.5	103.2	94.3	96.5
85°	98.7	98.7	94.3	94.3	85.3	74.1	65.1	56.1	49.4	47.1	47.1
87.5°	33.7	33.7	31.4	31.4	26.9	20.2	15.7	13.5	11.2	9.0	11.2
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)