

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: P638036

Luminaire Tested: GWS-SA4E-722-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22086.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

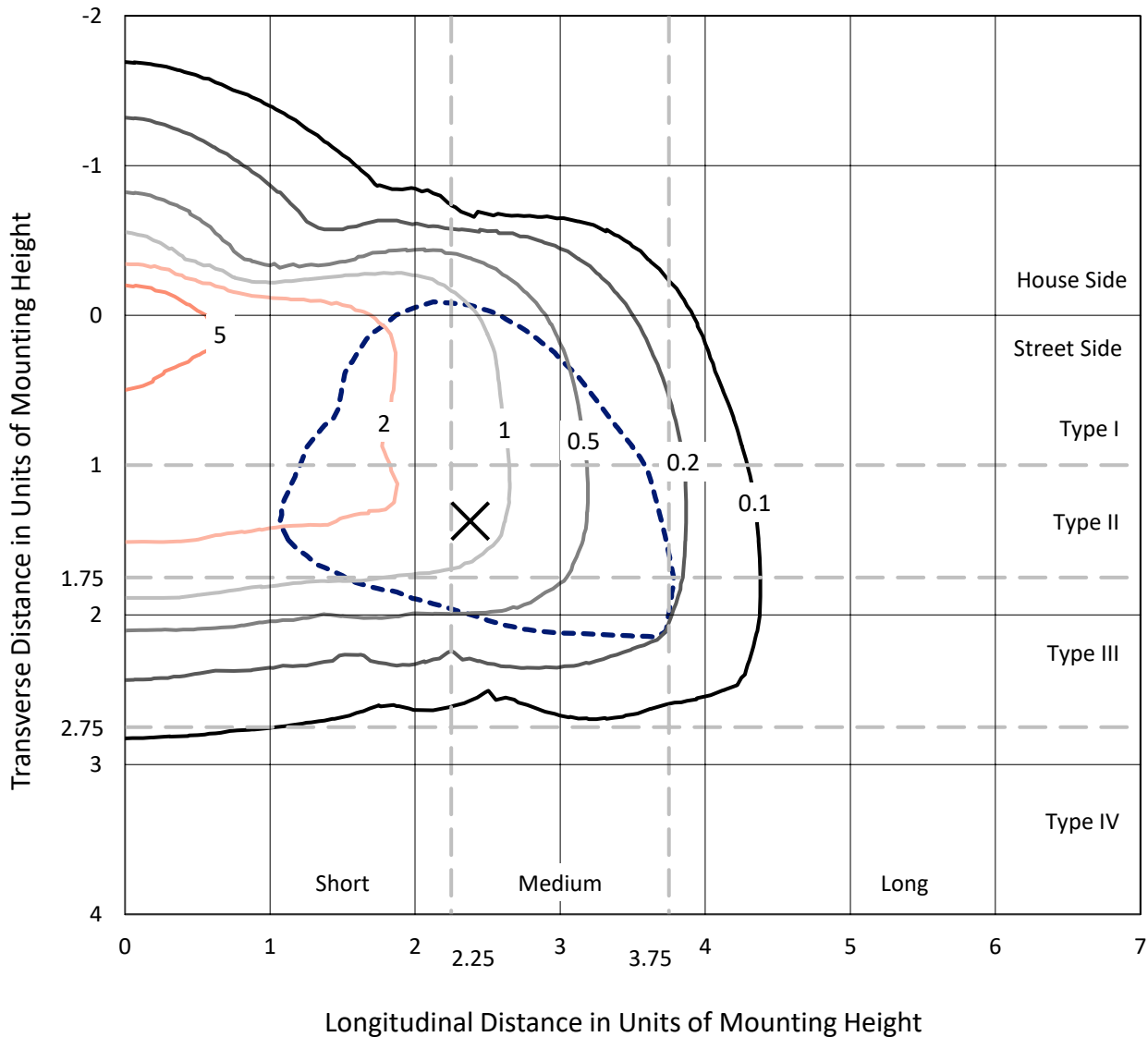
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

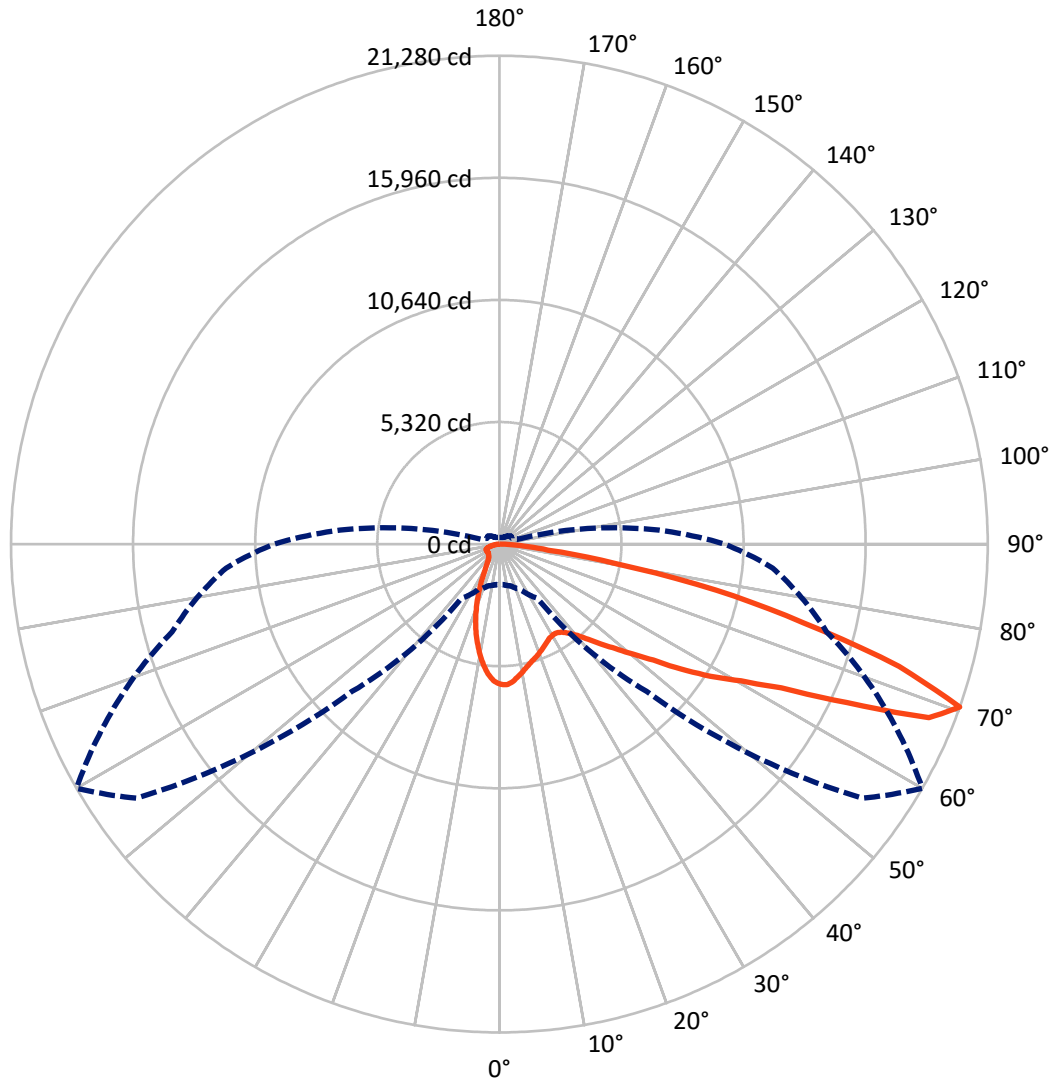
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3777.4	0.0	3777.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	18309.5	0.0	18309.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	22086.9	0.0	22086.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.8	2.4
10°-20°	1180.2	5.3
20°-30°	1511.5	6.8
30°-40°	1986.4	9.0
40°-50°	2882.0	13.0
50°-60°	4496.6	20.4
60°-70°	5886.9	26.7
70°-80°	3255.3	14.7
80°-90°	361.3	1.6
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°	22086.9	100.0
0°-180°	22086.9	100.0

Coefficient of Utilization



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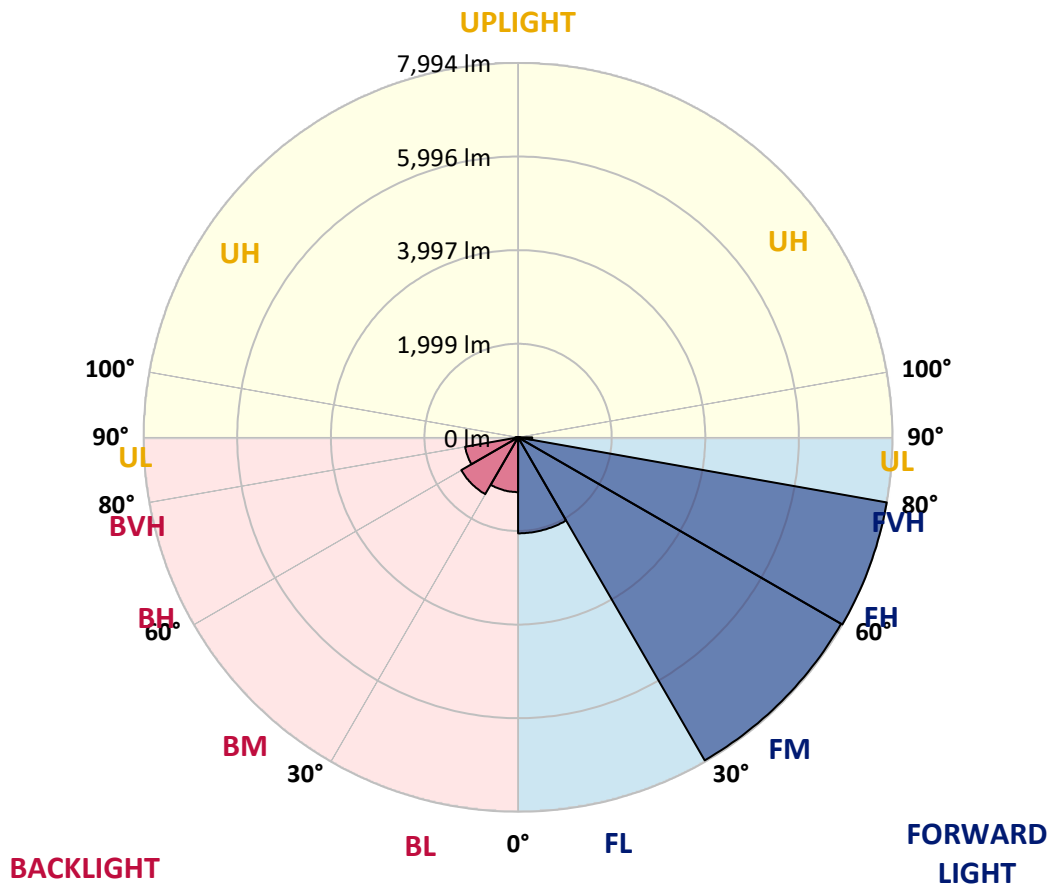
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.8	9.3			
FM (30°-60°)	7964.5	36.1			
FH (60°-80°)	7994.2	36.2			G4/12000
FVH (80°-90°)	301.0	1.4			G3/500
BL (0°-30°)	1168.7	5.3	B3/2500		
BM (30°-60°)	1400.5	6.3	B2/2500		
BH (60°-80°)	1147.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	60.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7
2.5°	6026.1	6032.5	6050.3	6076.2	6102.0	6115.0	6147.3	6137.6	6131.1	6118.2	6102.0
5°	5759.4	5772.4	5788.5	5838.6	5895.2	5940.4	6013.2	6021.2	6024.5	6030.9	6005.1
7.5°	5420.1	5423.3	5462.1	5528.4	5602.7	5680.3	5801.5	5835.4	5864.5	5896.8	5875.8
10°	5045.2	5053.2	5082.3	5177.7	5305.3	5420.1	5583.3	5639.9	5701.3	5772.4	5743.3
12.5°	4738.1	4739.7	4786.6	4888.4	5027.4	5182.5	5386.1	5454.0	5534.8	5646.3	5620.5
15°	4494.1	4494.1	4537.7	4625.0	4785.0	4967.6	5210.0	5297.3	5407.2	5557.4	5512.2
17.5°	4300.2	4301.8	4329.3	4421.4	4563.6	4765.6	5053.2	5171.2	5292.4	5491.2	5423.3
20°	4198.4	4190.3	4195.1	4251.7	4372.9	4568.4	4896.5	5033.9	5197.1	5445.9	5342.5
22.5°	4193.5	4179.0	4158.0	4162.8	4233.9	4395.5	4728.4	4894.9	5100.1	5408.8	5260.1
25°	4275.9	4259.8	4222.6	4180.6	4174.1	4271.1	4570.1	4759.1	4999.9	5392.6	5180.9
27.5°	4414.9	4403.6	4355.1	4292.1	4225.9	4222.6	4450.5	4647.6	4927.2	5408.8	5124.4
30°	4599.2	4579.8	4549.1	4468.3	4368.1	4264.6	4403.6	4587.8	4878.7	5460.5	5100.1
32.5°	4807.6	4796.3	4767.2	4686.4	4579.8	4414.9	4440.8	4600.8	4878.7	5551.0	5105.0
35°	5029.0	5027.4	5027.4	4974.1	4856.1	4650.9	4587.8	4710.7	4953.1	5696.4	5156.7
37.5°	5243.9	5242.3	5294.0	5313.4	5179.3	4957.9	4838.3	4930.4	5116.3	5911.3	5284.3
40°	5418.5	5424.9	5538.0	5635.0	5560.7	5355.4	5187.4	5234.2	5381.3	6216.8	5507.3
42.5°	5594.6	5612.4	5782.1	5953.4	5982.5	5804.7	5635.0	5662.5	5761.1	6620.8	5840.2
45°	5786.9	5795.0	6032.5	6271.7	6412.3	6307.3	6168.3	6205.5	6228.1	7120.1	6336.4
47.5°	5972.8	5993.8	6300.8	6628.9	6895.5	6885.8	6808.2	6796.9	6801.8	7727.7	6923.0
50°	6226.5	6257.2	6617.5	7013.5	7404.5	7583.9	7606.5	7520.9	7485.3	8403.2	7653.4
52.5°	6708.0	6708.0	7031.2	7420.7	7945.9	8390.3	8542.2	8401.6	8288.5	9117.5	8429.1
55°	7310.8	7336.7	7593.6	7908.7	8574.5	9238.7	9752.6	9597.5	9277.5	9894.8	9241.9
57.5°	7579.1	7611.4	8018.6	8508.3	9397.1	10203.5	10916.1	10861.2	10394.1	10702.8	10085.5
60°	7094.3	7162.1	7722.9	8543.8	10142.0	11759.7	12262.2	12102.3	11434.9	11551.2	11000.1
62.5°	5917.8	5992.1	6614.3	7760.1	10038.6	13441.9	14384.1	13794.2	12734.1	12622.6	12218.6
65°	3531.0	3527.7	4275.9	5795.0	8763.6	13909.0	17742.1	16641.6	14741.2	14093.2	13472.6
67.5°	2244.6	2239.8	2396.5	3070.4	5832.2	12764.8	19901.1	20187.1	17467.4	15174.3	13576.1
70°	1771.1	1769.5	1882.6	2189.7	2884.6	9083.6	19299.9	21279.6	19114.1	14762.2	11953.6
72.5°	1291.2	1294.4	1468.9	1834.2	2225.2	4560.4	15628.4	18207.5	17580.5	13031.5	9704.1
75°	927.6	932.4	1037.5	1404.3	2052.3	2493.5	10392.5	13690.8	13375.7	10445.9	6675.7
77.5°	589.8	596.3	688.4	984.1	1658.0	2013.5	6300.8	9665.3	8899.3	5885.5	2373.9
80°	360.4	381.4	458.9	733.7	1325.1	1511.0	3149.6	5092.0	4456.9	1614.4	798.3
82.5°	185.8	202.0	276.3	454.1	913.0	1326.7	1782.5	2139.6	1380.1	675.5	425.0
85°	58.2	67.9	97.0	184.2	434.7	822.5	1179.7	1063.3	633.5	318.4	197.2
87.5°	14.5	14.5	16.2	16.2	17.8	37.2	227.9	240.8	168.1	100.2	80.8
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°	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7
2.5°	6069.7	6030.9	6014.8	6013.2	5972.8	5914.6	5875.8	5848.3	5832.2	5828.9	5828.9
5°	5961.4	5911.3	5845.1	5795.0	5686.7	5576.8	5484.7	5433.0	5373.2	5365.1	5363.5
7.5°	5817.6	5744.9	5618.8	5478.3	5289.2	5106.6	4951.4	4846.4	4741.4	4722.0	4715.5
10°	5662.5	5563.9	5349.0	5101.7	4818.9	4545.8	4308.3	4122.4	3999.6	3912.3	3896.2
12.5°	5509.0	5378.1	5062.9	4694.5	4306.7	3933.4	3576.2	3272.4	3052.6	2925.0	2902.3
15°	5365.1	5182.5	4751.1	4280.8	3776.6	3265.9	2760.1	2365.8	2057.2	1947.3	1921.4
17.5°	5234.2	5006.4	4448.9	3852.6	3223.9	2556.5	1981.2	1630.5	1449.6	1394.6	1381.7
20°	5103.3	4825.4	4141.8	3401.7	2637.3	1889.1	1447.9	1283.1	1215.2	1194.2	1187.8
22.5°	4962.8	4626.6	3807.3	2957.3	2044.2	1414.0	1184.5	1111.8	1090.8	1092.4	1090.8
25°	4822.2	4424.6	3456.6	2474.1	1522.3	1147.4	1034.2	1006.8	1011.6	1026.2	1029.4
27.5°	4705.8	4245.2	3112.4	1944.1	1189.4	987.4	934.1	932.4	950.2	969.6	972.8
30°	4621.8	4085.3	2773.1	1494.8	979.3	877.5	856.5	866.2	887.2	901.7	906.6
32.5°	4562.0	3947.9	2411.1	1174.8	858.1	799.9	790.2	799.9	812.9	827.4	830.6
35°	4541.0	3847.7	2055.6	958.3	775.7	743.4	736.9	741.7	748.2	756.3	759.5
37.5°	4587.8	3797.6	1683.9	833.9	725.6	706.2	696.5	693.3	694.9	698.1	699.7
40°	4726.8	3820.2	1380.1	761.1	693.3	675.5	659.3	652.9	651.3	654.5	652.9
42.5°	4966.0	3915.6	1160.3	719.1	667.4	641.6	623.8	617.3	617.3	625.4	625.4
45°	5316.7	4103.0	1001.9	688.4	644.8	612.5	593.1	589.8	596.3	609.2	610.8
47.5°	5830.5	4377.8	906.6	665.8	623.8	586.6	567.2	565.6	578.5	599.5	601.2
50°	6439.8	4773.7	854.9	649.6	609.2	565.6	546.2	547.8	562.4	585.0	589.8
52.5°	7173.4	5313.4	858.1	643.2	601.2	552.7	533.3	530.0	544.6	567.2	572.1
55°	7931.4	5969.5	921.1	644.8	589.8	546.2	520.4	509.0	522.0	538.1	539.7
57.5°	8765.2	6709.7	1077.9	641.6	575.3	539.7	509.0	483.2	491.3	501.0	505.8
60°	9705.7	7580.7	1415.6	648.0	568.8	525.2	486.4	452.5	450.9	457.3	458.9
62.5°	10963.0	8765.2	1795.4	659.3	583.4	507.4	452.5	416.9	410.5	413.7	415.3
65°	11924.5	9330.8	1675.8	649.6	614.1	494.5	420.2	383.0	370.1	366.8	366.8
67.5°	11533.4	8582.6	1166.8	623.8	628.6	496.1	394.3	347.4	331.3	323.2	321.6
70°	9814.0	6971.4	811.2	597.9	612.5	492.9	366.8	318.4	297.3	286.0	284.4
72.5°	7753.6	5323.1	656.1	546.2	555.9	444.4	326.4	286.0	268.3	253.7	253.7
75°	4990.2	3248.2	547.8	486.4	454.1	345.8	282.8	255.3	237.6	223.0	223.0
77.5°	1679.0	1205.5	425.0	412.1	339.4	260.2	237.6	219.8	205.2	192.3	190.7
80°	682.0	572.1	311.9	311.9	237.6	198.8	185.8	177.8	168.1	151.9	151.9
82.5°	395.9	347.4	218.2	189.1	158.4	137.4	129.3	121.2	121.2	109.9	109.9
85°	190.7	192.3	130.9	116.4	90.5	79.2	76.0	71.1	69.5	63.0	61.4
87.5°	103.4	105.0	66.3	51.7	35.6	30.7	25.9	24.2	22.6	21.0	21.0
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)