

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: P640043

Luminaire Tested: GWS-SA5D-722-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22495.2 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

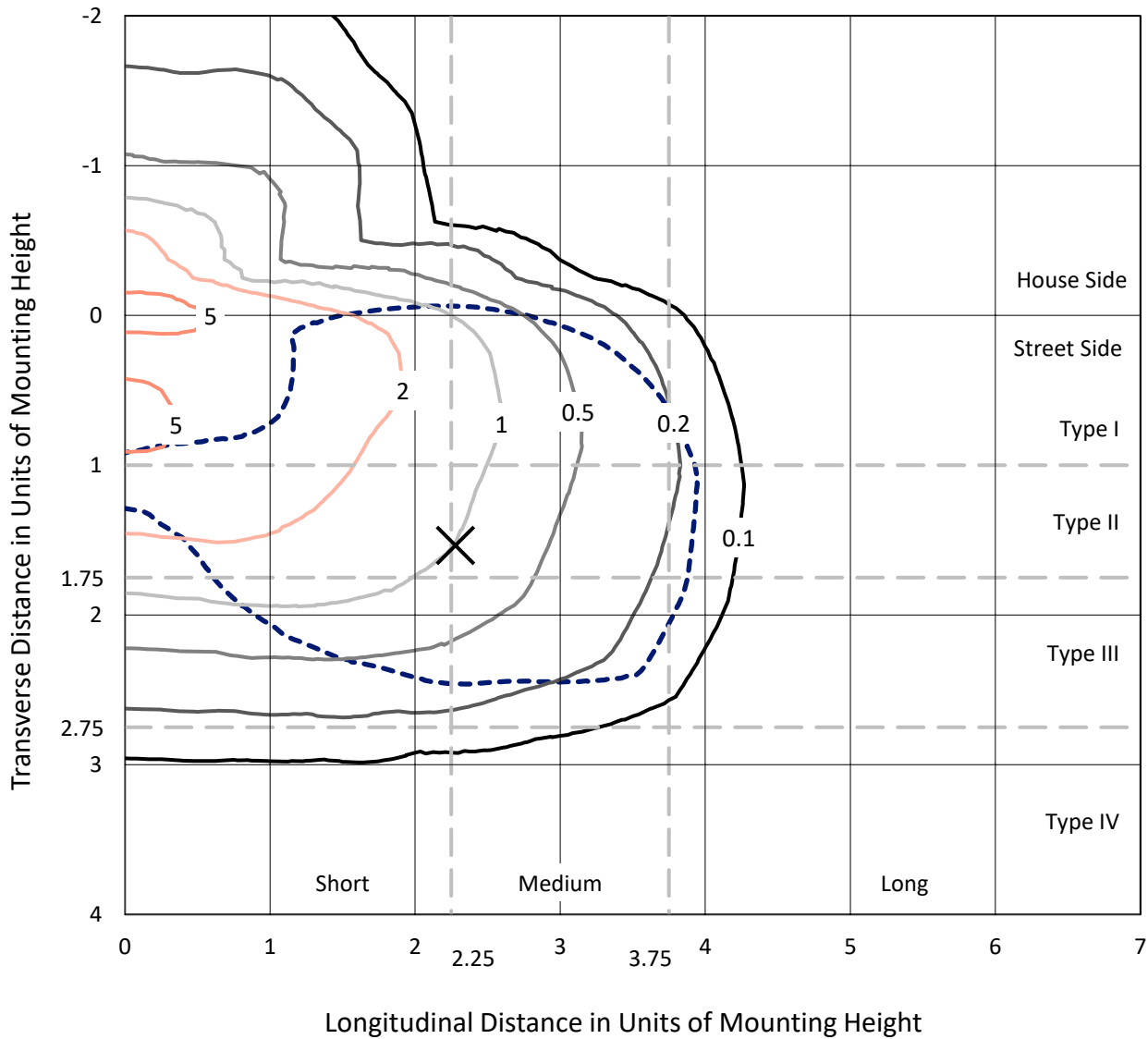
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

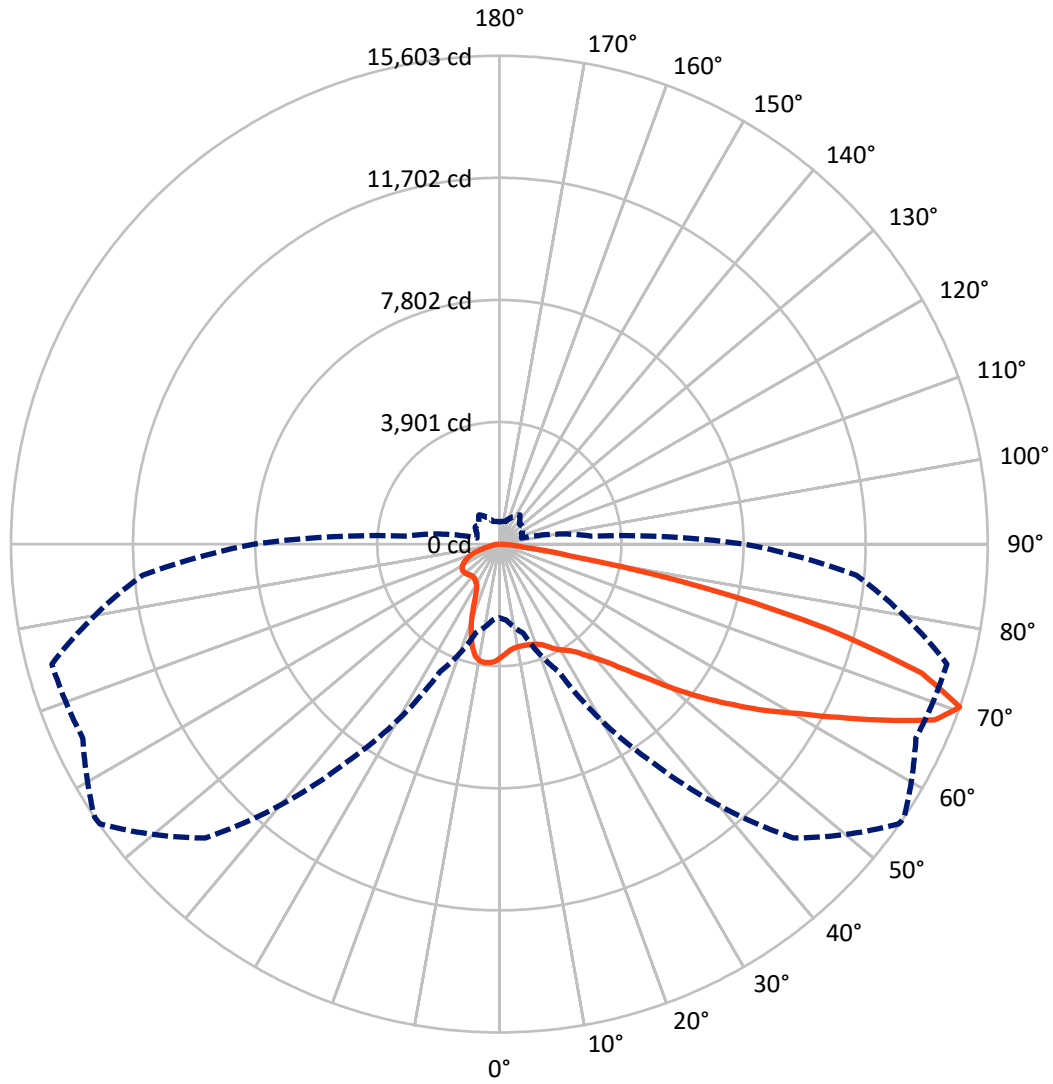
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4324.7	0.0	4324.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	18170.5	0.0	18170.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	22495.2	0.0	22495.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	1.5
10°-20°	910.4	4.0
20°-30°	1505.2	6.7
30°-40°	2250.5	10.0
40°-50°	3349.0	14.9
50°-60°	4761.4	21.2
60°-70°	5897.1	26.2
70°-80°	3256.2	14.5
80°-90°	229.3	1.0
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°	22495.2	100.0
0°-180°	22495.2	100.0

Coefficient of Utilization



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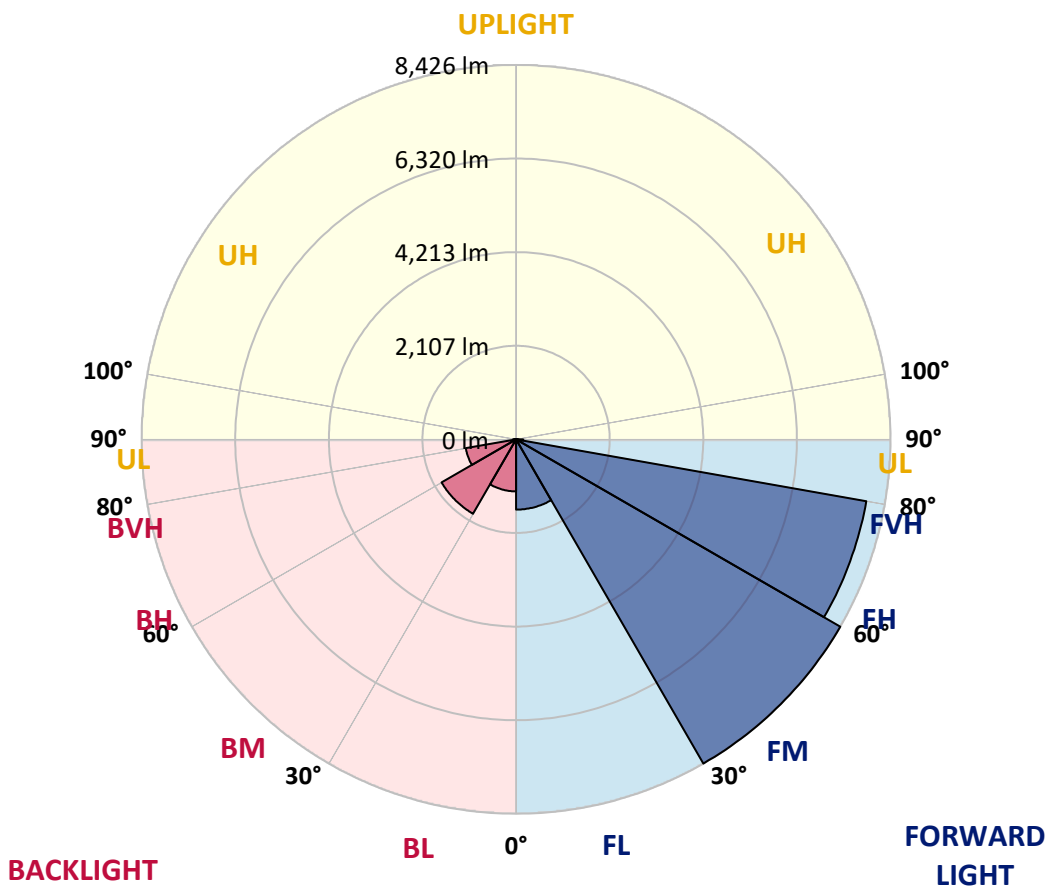
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.9	7.0			
FM (30°-60°)	8426.4	37.5			
FH (60°-80°)	8003.8	35.6			G4/12000
FVH (80°-90°)	159.4	0.7			G2/225
BL (0°-30°)	1170.7	5.2	B3/2500		
BM (30°-60°)	1934.5	8.6	B2/2500		
BH (60°-80°)	1149.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	70.0	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°	56°	65°	75°	85°
0°	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1
2.5°	3397.9	3378.8	3401.1	3412.2	3440.7	3482.0	3518.4	3520.0	3539.1	3585.1	3629.5
5°	3244.0	3234.5	3240.8	3274.2	3304.3	3356.6	3412.2	3416.9	3470.9	3561.3	3650.1
7.5°	3125.0	3112.3	3136.1	3179.0	3217.0	3275.7	3348.7	3355.1	3431.2	3567.6	3704.0
10°	2953.7	2944.2	2988.6	3045.7	3128.2	3225.0	3321.7	3329.7	3429.6	3608.9	3799.2
12.5°	2879.2	2879.2	2898.2	2952.1	3042.5	3171.0	3317.0	3329.7	3455.0	3672.3	3921.4
15°	2995.0	3002.9	2987.0	2983.9	3020.3	3142.5	3323.3	3342.4	3502.6	3737.4	4041.9
17.5°	3228.1	3236.1	3194.8	3129.8	3093.3	3169.5	3347.1	3367.7	3553.3	3808.7	4172.0
20°	3554.9	3564.4	3474.0	3374.1	3248.8	3247.2	3393.1	3412.2	3618.4	3886.5	4310.0
22.5°	3937.2	3943.6	3829.4	3670.7	3478.8	3391.5	3472.4	3491.5	3702.5	3994.3	4459.1
25°	4379.8	4398.8	4260.8	4030.8	3770.7	3589.8	3604.1	3626.3	3853.2	4138.7	4635.2
27.5°	4852.5	4876.3	4717.7	4463.9	4105.4	3808.7	3773.8	3792.9	4013.4	4227.5	4728.8
30°	5336.4	5353.8	5195.2	4904.9	4465.5	4056.2	3916.6	3927.7	4083.2	4270.4	4824.0
32.5°	5874.1	5859.8	5707.6	5372.8	4881.1	4352.8	4049.9	4046.7	4160.9	4356.0	4960.4
35°	6378.6	6399.2	6237.4	5867.8	5337.9	4719.3	4249.7	4237.0	4325.9	4495.6	5152.3
37.5°	6989.3	6983.0	6789.4	6389.7	5796.4	5069.9	4530.5	4508.3	4540.0	4712.9	5420.4
40°	7425.5	7469.9	7344.6	6971.8	6332.6	5501.3	4858.9	4809.7	4817.6	4981.0	5778.9
42.5°	7782.5	7823.7	7836.4	7598.4	6946.5	6034.3	5268.1	5219.0	5223.7	5455.3	6219.9
45°	8056.9	8112.4	8291.7	8221.9	7638.1	6649.8	5821.8	5771.0	5774.2	6031.2	6752.9
47.5°	8169.5	8229.8	8593.1	8759.6	8372.6	7385.9	6510.2	6435.7	6446.8	6730.7	7362.1
50°	8133.0	8213.9	8705.7	9173.7	8988.1	8134.6	7333.5	7281.2	7238.3	7650.8	8023.6
52.5°	7818.9	7907.8	8694.6	9437.0	9490.9	8842.1	8183.8	8153.7	8144.1	8628.0	8762.8
55°	6894.1	7043.2	8312.3	9506.8	9884.3	9508.4	9105.4	9054.7	9103.9	9674.9	9509.9
57.5°	6381.7	6492.8	7563.5	9429.0	10206.3	10142.9	10025.5	10030.3	10085.8	10812.3	10415.7
60°	6089.9	6219.9	7147.9	9216.5	10515.7	10913.8	10988.4	10988.4	11088.3	12038.5	11335.8
62.5°	5702.8	5834.5	6759.3	8807.2	10801.2	11821.2	12198.7	12194.0	12233.6	13353.6	12235.2
65°	4917.6	5039.7	5978.8	8161.6	10940.8	12820.6	13574.1	13559.8	13480.5	14524.3	12830.1
67.5°	3570.8	3686.6	4579.7	6933.8	10437.9	13626.4	14990.7	14997.0	14522.7	15261.9	12861.8
70°	2354.1	2433.4	2944.2	4503.5	8488.4	13279.0	15583.9	15603.0	14682.9	14801.9	11446.8
72.5°	1468.9	1524.4	1838.5	2685.6	5015.9	10510.9	14061.1	14113.4	13209.2	13007.8	9405.3
75°	975.6	1013.7	1223.0	1565.7	2320.8	5688.5	10688.6	10856.7	10587.1	10196.8	6553.1
77.5°	586.9	618.7	778.9	994.6	1027.9	2222.4	6239.0	6673.6	6711.7	5323.7	2744.3
80°	268.1	304.6	429.9	567.9	547.3	774.1	2200.2	2301.7	2715.8	1691.0	866.1
82.5°	158.6	174.5	285.5	282.4	233.2	376.0	791.6	812.2	690.0	618.7	369.6
85°	63.5	74.6	120.6	106.3	85.7	122.1	298.2	312.5	299.8	269.7	136.4
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	27.0	28.6	41.2	74.6	41.2
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°	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1	3631.1
2.5°	3658.0	3648.5	3696.1	3732.6	3748.5	3764.3	3750.0	3745.3	3745.3	3713.6	3697.7
5°	3697.7	3702.5	3767.5	3797.6	3797.6	3784.9	3746.9	3719.9	3710.4	3669.1	3658.0
7.5°	3772.3	3792.9	3853.2	3851.6	3807.2	3737.4	3642.2	3569.2	3502.6	3474.0	3456.6
10°	3894.4	3921.4	3962.6	3896.0	3772.3	3588.2	3386.8	3228.1	3133.0	3056.8	3056.8
12.5°	4034.0	4059.4	4051.4	3897.6	3642.2	3297.9	3007.7	2825.2	2692.0	2622.2	2622.2
15°	4173.6	4194.2	4108.6	3824.6	3370.9	2912.5	2595.2	2376.3	2260.5	2195.5	2195.5
17.5°	4314.8	4313.2	4132.3	3656.5	3017.2	2485.8	2174.8	2005.1	1965.4	1954.3	1952.8
20°	4451.2	4414.7	4102.2	3375.7	2606.3	2055.9	1859.2	1870.3	1929.0	1954.3	1957.5
22.5°	4605.1	4514.6	4013.4	3017.2	2139.9	1757.6	1770.3	1862.3	1948.0	1986.1	1990.8
25°	4762.1	4600.3	3864.3	2596.8	1749.7	1648.2	1746.5	1849.6	1946.4	1995.6	2000.3
27.5°	4825.6	4600.3	3610.4	2109.8	1541.9	1602.2	1710.0	1810.0	1911.5	1968.6	1979.7
30°	4877.9	4560.7	3255.1	1670.4	1456.2	1557.8	1651.4	1743.4	1843.3	1913.1	1925.8
32.5°	4950.9	4525.8	2825.2	1403.9	1416.6	1514.9	1580.0	1657.7	1748.1	1794.1	1789.4
35°	5036.5	4471.8	2306.5	1277.0	1383.3	1478.4	1524.4	1570.5	1529.2	1527.6	1532.4
37.5°	5158.7	4424.2	1854.4	1219.9	1361.1	1453.1	1491.1	1392.8	1335.7	1311.9	1302.4
40°	5334.8	4405.2	1462.6	1186.6	1357.9	1451.5	1424.5	1272.2	1194.5	1112.0	1110.4
42.5°	5556.9	4390.9	1208.8	1170.7	1369.0	1488.0	1332.5	1192.9	1032.7	996.2	993.0
45°	5842.4	4368.7	1081.9	1167.5	1396.0	1516.5	1323.0	1083.5	974.0	958.1	958.1
47.5°	6186.6	4333.8	1024.8	1167.5	1426.1	1503.8	1294.4	1059.7	947.0	964.5	975.6
50°	6581.6	4289.4	994.6	1164.4	1456.2	1503.8	1234.2	1054.9	940.7	1031.1	1067.6
52.5°	7003.6	4238.6	974.0	1151.7	1476.9	1505.4	1237.3	1070.8	947.0	1047.0	1077.1
55°	7469.9	4230.7	945.4	1124.7	1483.2	1464.2	1245.3	1105.7	956.5	948.6	950.2
57.5°	8058.5	4325.9	924.8	1085.0	1457.8	1380.1	1261.1	1131.0	945.4	947.0	958.1
60°	8674.0	4505.1	942.3	1047.0	1405.5	1300.8	1272.2	1118.4	891.5	866.1	869.3
62.5°	9197.4	4641.6	956.5	1029.5	1329.3	1231.0	1261.1	1089.8	861.4	855.0	869.3
65°	9416.4	4528.9	921.6	993.0	1218.3	1145.3	1237.3	1053.3	836.0	812.2	813.8
67.5°	9173.7	4000.7	853.4	912.1	1093.0	1035.9	1199.3	1005.7	801.1	772.5	766.2
70°	7836.4	2939.4	736.0	783.6	940.7	907.4	1140.6	943.9	745.6	724.9	710.7
72.5°	6315.1	2081.2	610.7	623.4	737.6	764.6	1039.0	866.1	682.1	623.4	602.8
75°	4395.7	1307.1	509.2	496.5	533.0	583.8	810.6	718.6	588.5	526.7	507.6
77.5°	1890.9	671.0	398.2	391.8	355.3	404.5	621.8	599.6	493.3	422.0	410.9
80°	632.9	388.6	287.1	276.0	236.4	284.0	437.8	479.1	387.1	312.5	293.5
82.5°	317.3	225.3	182.4	165.0	158.6	179.3	258.6	298.2	268.1	215.7	182.4
85°	155.5	128.5	99.9	98.4	82.5	77.7	107.9	126.9	120.6	88.8	84.1
87.5°	57.1	50.8	31.7	25.4	15.9	11.1	6.3	6.3	4.8	4.8	4.8
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)