

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: P638063

Luminaire Tested: GWS-SA4E-722-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638063  
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-SA4E-722-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

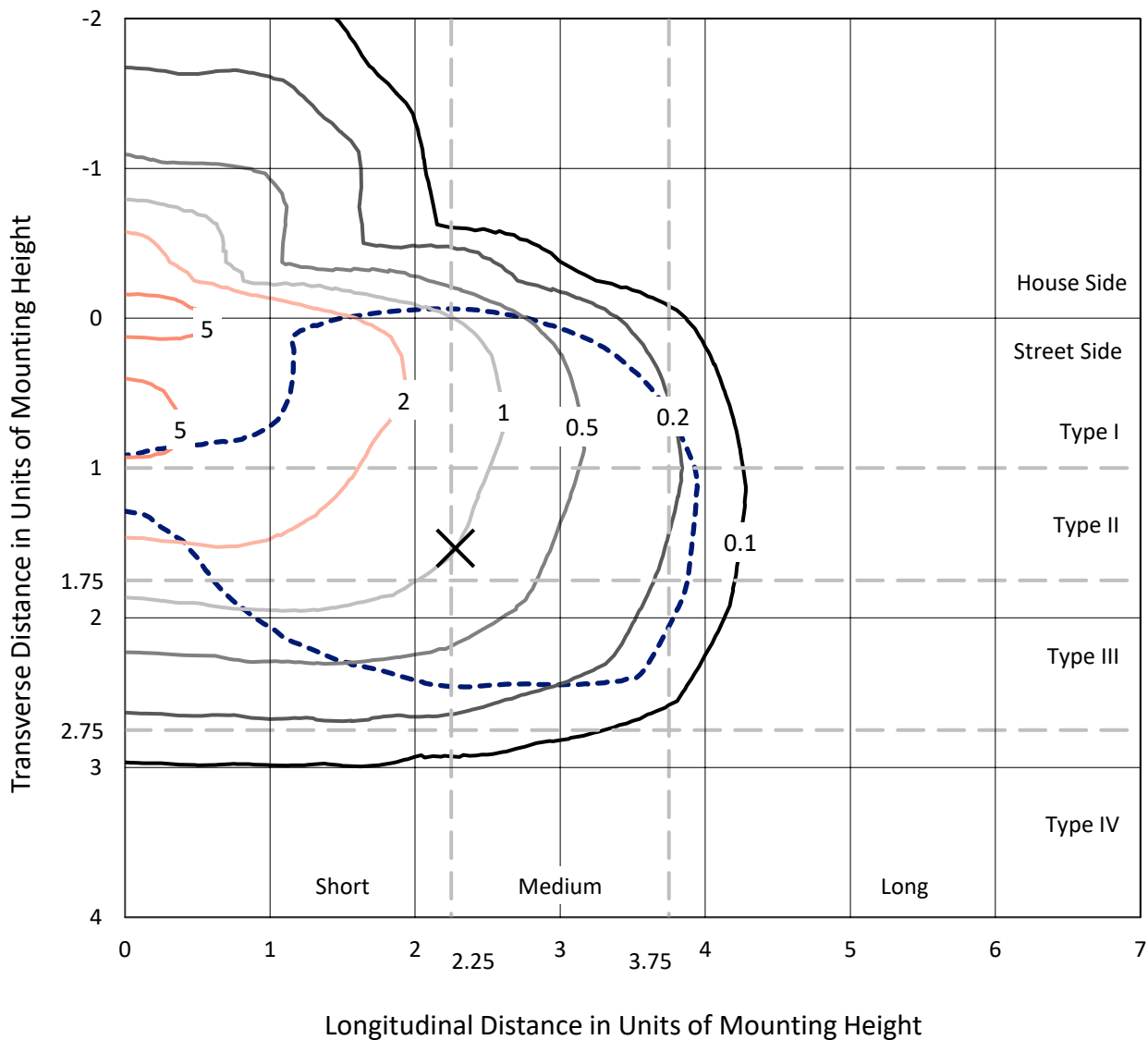
Lumens per Lamp: N/A  
Luminaire Lumens: 22915.8 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P638063  
 CATALOG NUMBER: GWS-SA4E-722-U-T3R-W

### Iso-Footcandle Lines of Horizontal Illumination

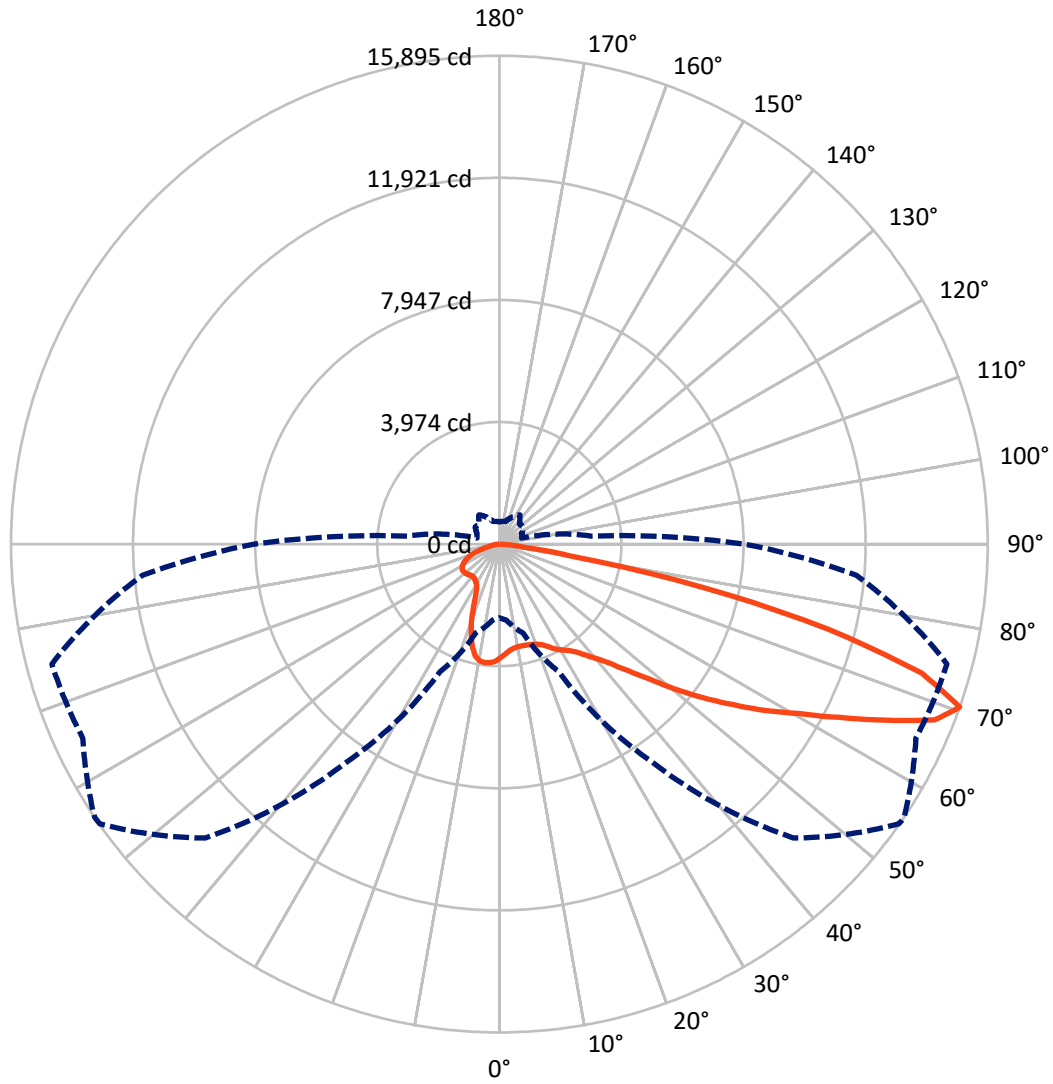
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P638063  
CATALOG NUMBER: GWS-SA4E-722-U-T3R-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638063

CATALOG NUMBER: GWS-SA4E-722-U-T3R-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4405.6	0.0	4405.6
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	18510.2	0.0	18510.2
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	22915.8	0.0	22915.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.3	1.5
10°-20°	927.5	4.0
20°-30°	1533.4	6.7
30°-40°	2292.6	10.0
40°-50°	3411.7	14.9
50°-60°	4850.4	21.2
60°-70°	6007.4	26.2
70°-80°	3317.1	14.5
80°-90°	233.6	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°	22915.8	100.0
0°-180°	22915.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638063

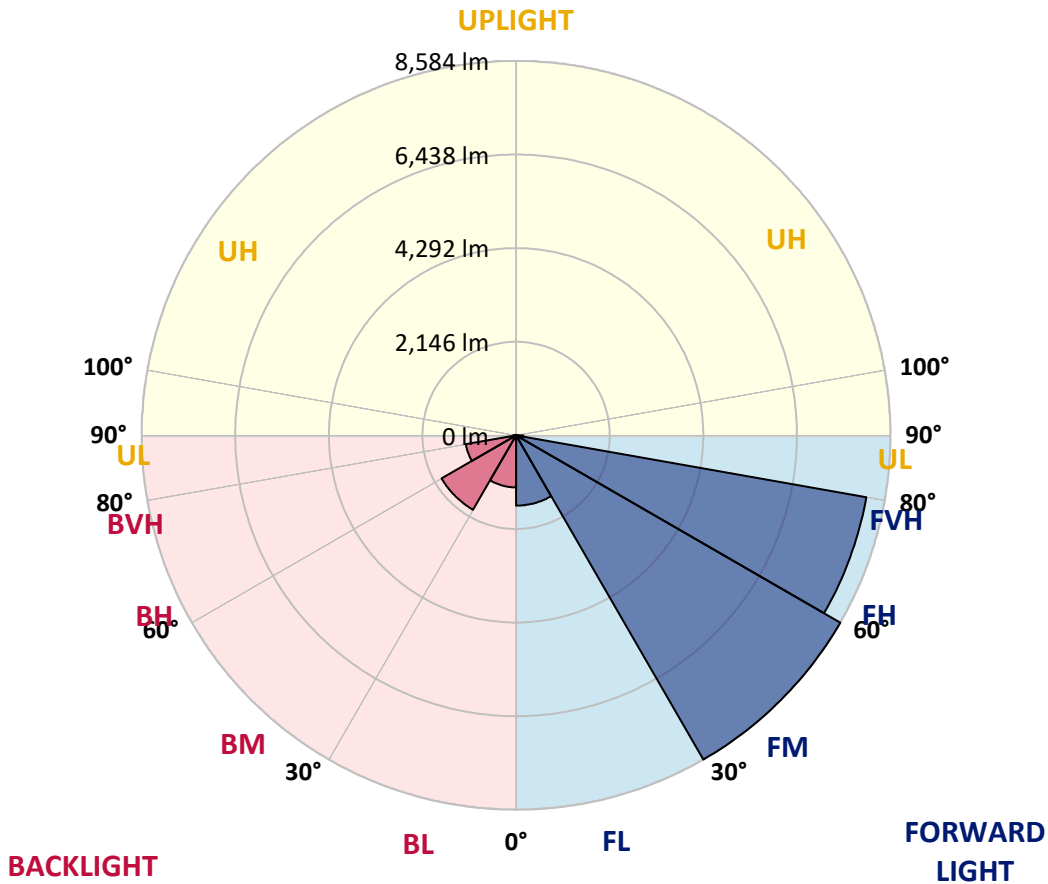
CATALOG NUMBER: GWS-SA4E-722-U-T3R-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.5	7.0			
FM (30°-60°)	8583.9	37.5			
FH (60°-80°)	8153.5	35.6			G4/12000
FVH (80°-90°)	162.3	0.7			G2/225
BL (0°-30°)	1192.6	5.2	B3/2500		
BM (30°-60°)	1970.7	8.6	B2/2500		
BH (60°-80°)	1171.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	71.3	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





REPORT NUMBER: P638063  
 CATALOG NUMBER: GWS-SA4E-722-U-T3R-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0
2.5°	3461.4	3442.0	3464.6	3476.0	3505.0	3547.1	3584.2	3585.8	3605.2	3652.1	3697.3
5°	3304.7	3295.0	3301.4	3335.4	3366.1	3419.4	3476.0	3480.8	3535.7	3627.9	3718.4
7.5°	3183.5	3170.5	3194.8	3238.4	3277.2	3337.0	3411.3	3417.8	3495.3	3634.3	3773.3
10°	3008.9	2999.2	3044.5	3102.7	3186.7	3285.3	3383.8	3391.9	3493.7	3676.3	3870.3
12.5°	2933.0	2933.0	2952.4	3007.3	3099.4	3230.3	3379.0	3391.9	3519.6	3741.0	3994.7
15°	3051.0	3059.0	3042.9	3039.6	3076.8	3201.2	3385.5	3404.9	3568.1	3807.2	4117.5
17.5°	3288.5	3296.6	3254.6	3188.3	3151.1	3228.7	3409.7	3430.7	3619.8	3880.0	4250.0
20°	3621.4	3631.1	3539.0	3437.2	3309.5	3307.9	3456.6	3476.0	3686.0	3959.1	4390.6
22.5°	4010.8	4017.3	3901.0	3739.4	3543.8	3455.0	3537.4	3556.8	3771.7	4069.0	4542.5
25°	4461.7	4481.1	4340.5	4106.2	3841.2	3656.9	3671.5	3694.1	3925.2	4216.1	4721.9
27.5°	4943.3	4967.5	4805.9	4547.3	4182.1	3880.0	3844.4	3863.8	4088.4	4306.6	4817.2
30°	5436.1	5453.9	5292.3	4996.6	4549.0	4132.0	3989.8	4001.1	4159.5	4350.2	4914.2
32.5°	5983.9	5969.4	5814.3	5473.3	4972.3	4434.2	4125.6	4122.3	4238.7	4437.5	5053.1
35°	6497.8	6518.8	6354.0	5977.5	5437.7	4807.5	4329.2	4316.3	4406.8	4579.7	5248.7
37.5°	7120.0	7113.5	6916.4	6509.1	5904.8	5164.7	4615.2	4592.6	4624.9	4801.1	5521.8
40°	7564.4	7609.6	7482.0	7102.2	6451.0	5604.2	4949.7	4899.6	4907.7	5074.2	5887.0
42.5°	7928.0	7970.0	7982.9	7740.5	7076.3	6147.2	5366.6	5316.6	5321.4	5557.3	6336.2
45°	8207.5	8264.1	8446.7	8375.6	7780.9	6774.2	5930.6	5878.9	5882.1	6143.9	6879.2
47.5°	8322.3	8383.7	8753.7	8923.4	8529.1	7524.0	6632.0	6556.0	6567.3	6856.6	7499.7
50°	8285.1	8367.5	8868.5	9345.2	9156.1	8286.7	7470.6	7417.3	7373.7	7793.8	8173.6
52.5°	7965.1	8055.6	8857.1	9613.4	9668.4	9007.4	8336.8	8306.1	8296.4	8789.3	8926.6
55°	7023.0	7174.9	8467.7	9684.5	10069.1	9686.1	9275.7	9224.0	9274.1	9855.8	9687.8
57.5°	6501.1	6614.2	7705.0	9605.3	10397.2	10332.5	10213.0	10217.8	10274.4	11014.5	10610.5
60°	6203.7	6336.2	7281.6	9388.8	10712.3	11117.9	11193.8	11193.8	11295.7	12263.6	11547.7
62.5°	5809.4	5943.5	6885.7	8971.9	11003.2	12042.2	12426.8	12422.0	12462.4	13603.3	12464.0
65°	5009.5	5133.9	6090.6	8314.2	11145.4	13060.3	13827.9	13813.3	13732.5	14795.9	13070.0
67.5°	3637.6	3755.5	4665.3	7063.4	10633.1	13881.2	15270.9	15277.4	14794.2	15547.3	13102.3
70°	2398.1	2478.9	2999.2	4587.7	8647.1	13527.3	15875.3	15894.7	14957.4	15078.6	11660.9
72.5°	1496.4	1553.0	1872.9	2735.8	5109.7	10707.4	14324.0	14377.3	13456.2	13251.0	9581.1
75°	993.8	1032.6	1245.9	1595.0	2364.2	5794.9	10888.4	11059.7	10785.0	10387.5	6675.6
77.5°	597.9	630.2	793.4	1013.2	1047.2	2264.0	6355.6	6798.4	6837.2	5423.2	2795.6
80°	273.1	310.3	437.9	578.5	557.5	788.6	2241.4	2344.8	2766.5	1722.6	882.3
82.5°	161.6	177.8	290.9	287.6	237.5	383.0	806.4	827.4	702.9	630.2	376.5
85°	64.6	76.0	122.8	108.3	87.3	124.4	303.8	318.3	305.4	274.7	139.0
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	27.5	29.1	42.0	76.0	42.0
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: P638063  
 CATALOG NUMBER: GWS-SA4E-722-U-T3R-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0
2.5°	3726.4	3716.7	3765.2	3802.4	3818.5	3834.7	3820.2	3815.3	3815.3	3783.0	3766.8
5°	3766.8	3771.7	3837.9	3868.6	3868.6	3855.7	3816.9	3789.5	3779.8	3737.7	3726.4
7.5°	3842.8	3863.8	3925.2	3923.6	3878.3	3807.2	3710.3	3635.9	3568.1	3539.0	3521.2
10°	3967.2	3994.7	4036.7	3968.8	3842.8	3655.3	3450.1	3288.5	3191.5	3114.0	3114.0
12.5°	4109.4	4135.3	4127.2	3970.4	3710.3	3359.6	3063.9	2878.0	2742.3	2671.2	2671.2
15°	4251.6	4272.6	4185.4	3896.1	3433.9	2966.9	2643.7	2420.7	2302.8	2236.5	2236.5
17.5°	4395.4	4393.8	4209.6	3724.8	3073.6	2532.2	2215.5	2042.6	2002.2	1990.9	1989.3
20°	4534.4	4497.3	4178.9	3438.8	2655.0	2094.3	1893.9	1905.2	1965.0	1990.9	1994.1
22.5°	4691.2	4599.1	4088.4	3073.6	2179.9	1790.5	1803.4	1897.2	1984.4	2023.2	2028.0
25°	4851.2	4686.3	3936.5	2645.3	1782.4	1679.0	1779.2	1884.2	1982.8	2032.9	2037.7
27.5°	4915.8	4686.3	3678.0	2149.2	1570.7	1632.1	1742.0	1843.8	1947.2	2005.4	2016.7
30°	4969.1	4645.9	3316.0	1701.6	1483.5	1586.9	1682.2	1776.0	1877.8	1948.9	1961.8
32.5°	5043.5	4610.4	2878.0	1430.1	1443.1	1543.3	1609.5	1688.7	1780.8	1827.7	1822.8
35°	5130.7	4555.4	2349.6	1300.9	1409.1	1506.1	1553.0	1599.8	1557.8	1556.2	1561.0
37.5°	5255.1	4506.9	1889.1	1242.7	1386.5	1480.2	1519.0	1418.8	1360.6	1336.4	1326.7
40°	5434.5	4487.6	1489.9	1208.7	1383.3	1478.6	1451.1	1296.0	1216.8	1132.8	1131.2
42.5°	5660.8	4473.0	1231.4	1192.6	1394.6	1515.8	1357.4	1215.2	1052.0	1014.8	1011.6
45°	5951.6	4450.4	1102.1	1189.4	1422.1	1544.9	1347.7	1103.7	992.2	976.0	976.0
47.5°	6302.3	4414.8	1043.9	1189.4	1452.8	1531.9	1318.6	1079.5	964.7	982.5	993.8
50°	6704.7	4369.6	1013.2	1186.1	1483.5	1531.9	1257.2	1074.6	958.3	1050.4	1087.5
52.5°	7134.5	4317.9	992.2	1173.2	1504.5	1533.6	1260.5	1090.8	964.7	1066.5	1097.2
55°	7609.6	4309.8	963.1	1145.7	1510.9	1491.5	1268.5	1126.3	974.4	966.4	968.0
57.5°	8209.1	4406.8	942.1	1105.3	1485.1	1405.9	1284.7	1152.2	963.1	964.7	976.0
60°	8836.1	4589.4	959.9	1066.5	1431.8	1325.1	1296.0	1139.3	908.2	882.3	885.6
62.5°	9369.4	4728.3	974.4	1048.8	1354.2	1254.0	1284.7	1110.2	877.5	871.0	885.6
65°	9592.4	4613.6	938.9	1011.6	1241.1	1166.7	1260.5	1073.0	851.6	827.4	829.0
67.5°	9345.2	4075.5	869.4	929.2	1113.4	1055.2	1221.7	1024.5	816.1	787.0	780.5
70°	7982.9	2994.4	749.8	798.3	958.3	924.3	1161.9	961.5	759.5	738.5	724.0
72.5°	6433.2	2120.2	622.1	635.1	751.4	778.9	1058.5	882.3	694.9	635.1	614.1
75°	4477.9	1331.6	518.7	505.8	543.0	594.7	825.8	732.0	599.5	536.5	517.1
77.5°	1926.2	683.6	405.6	399.1	362.0	412.1	633.5	610.8	502.6	429.8	418.5
80°	644.8	395.9	292.5	281.2	240.8	289.3	446.0	488.0	394.3	318.3	299.0
82.5°	323.2	229.5	185.8	168.1	161.6	182.6	263.4	303.8	273.1	219.8	185.8
85°	158.4	130.9	101.8	100.2	84.0	79.2	109.9	129.3	122.8	90.5	85.6
87.5°	58.2	51.7	32.3	25.9	16.2	11.3	6.5	6.5	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)