

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: P638503

Luminaire Tested: GWS-SA4E-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638503
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-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24713.8 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

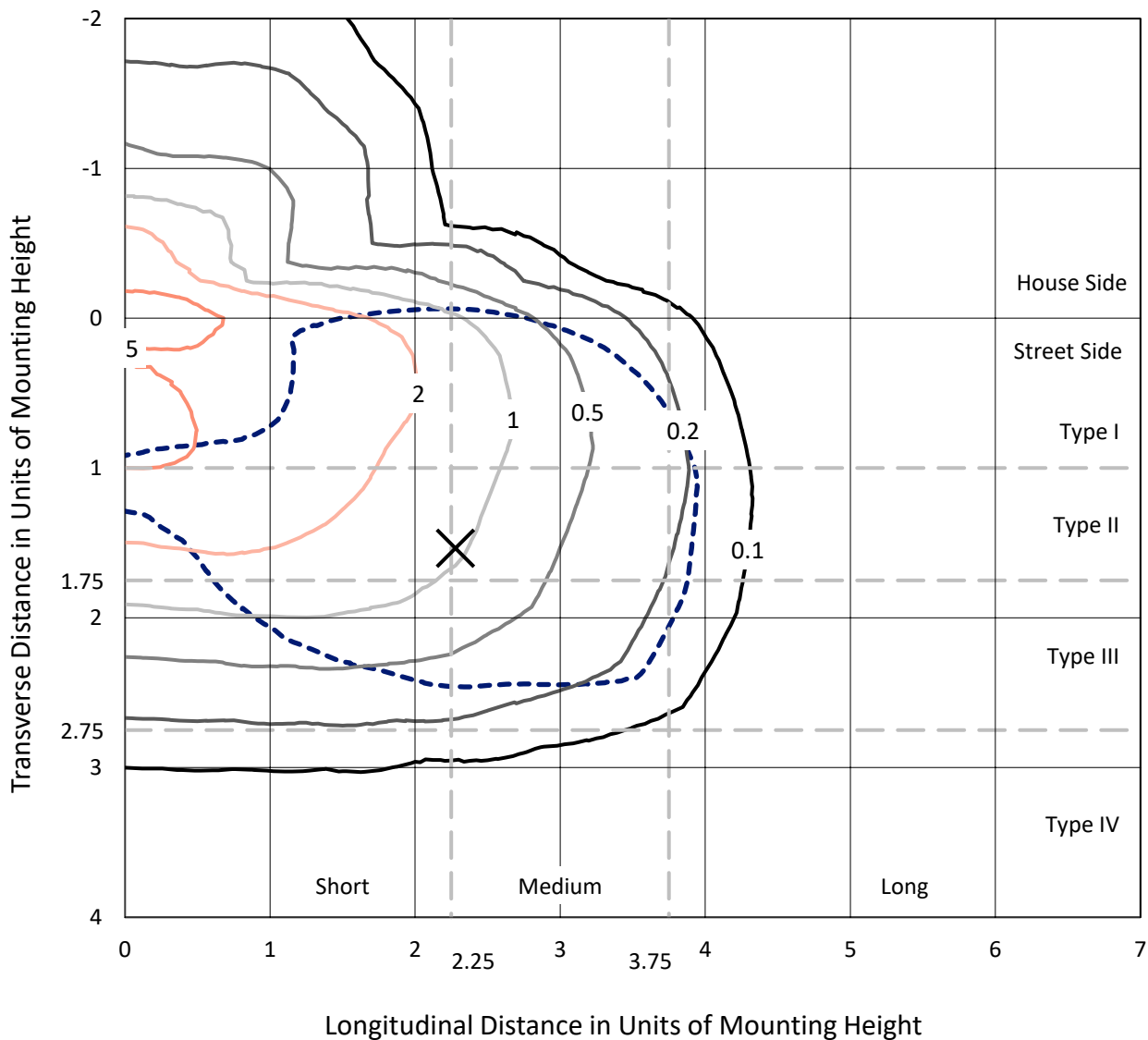
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638503
 CATALOG NUMBER: GWS-SA4E-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

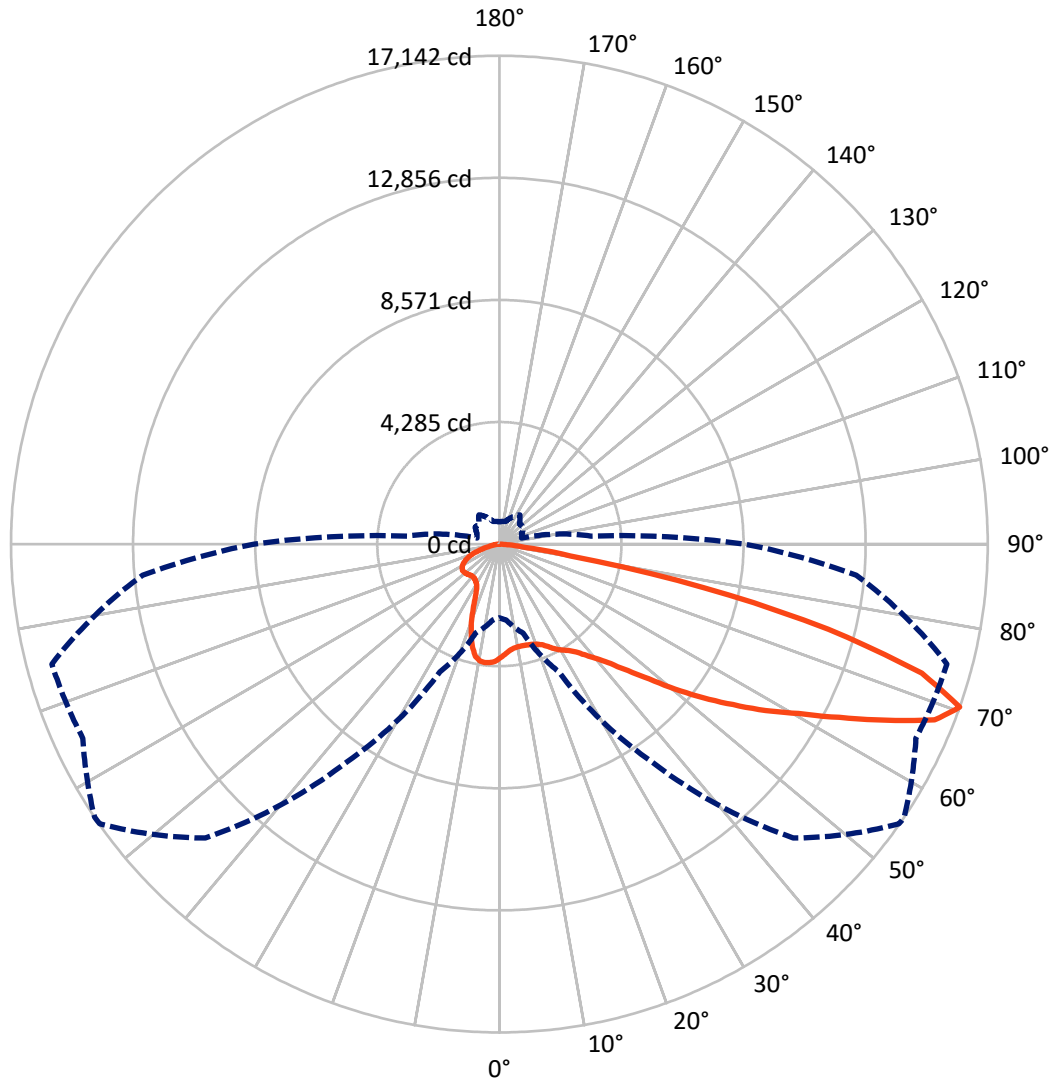
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P638503
CATALOG NUMBER: GWS-SA4E-830-U-T3R-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638503

CATALOG NUMBER: GWS-SA4E-830-U-T3R-W

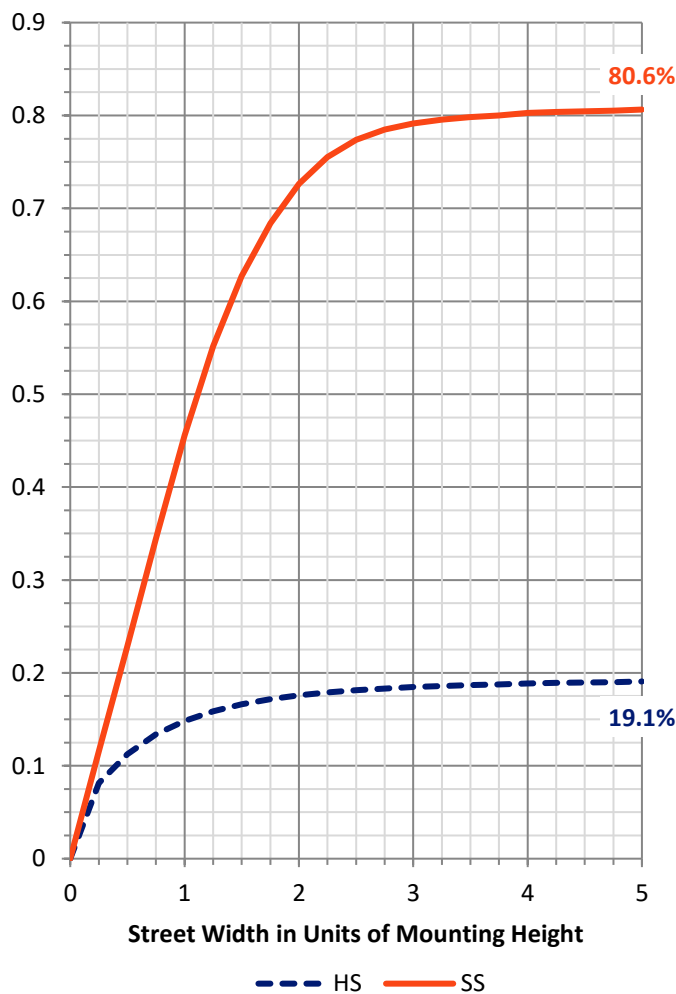
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4751.3	0.0	4751.3
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	19962.5	0.0	19962.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	24713.8	0.0	24713.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	1.5
10°-20°	1000.2	4.0
20°-30°	1653.7	6.7
30°-40°	2472.5	10.0
40°-50°	3679.3	14.9
50°-60°	5231.0	21.2
60°-70°	6478.7	26.2
70°-80°	3577.3	14.5
80°-90°	251.9	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°	24713.8	100.0
0°-180°	24713.8	100.0

Coefficient of Utilization



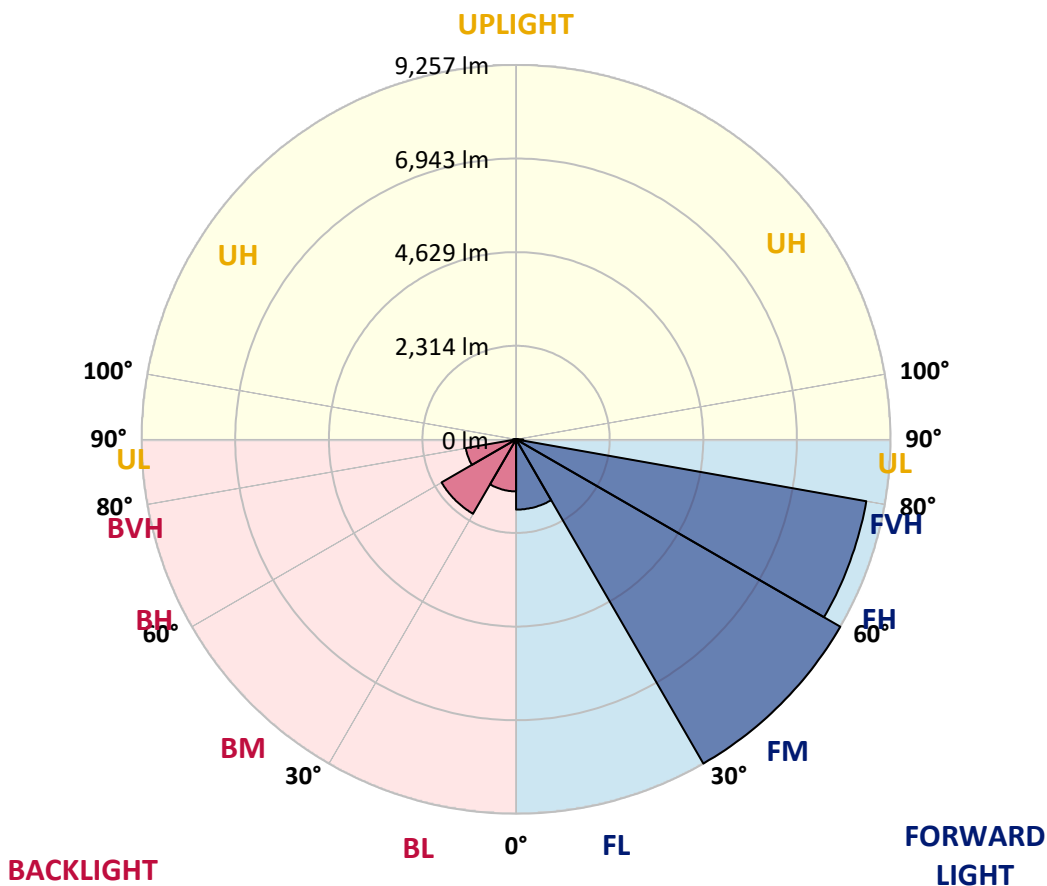
REPORT NUMBER: P638503

CATALOG NUMBER: GWS-SA4E-830-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.9	7.0			
FM (30°-60°)	9257.4	37.5			
FH (60°-80°)	8793.2	35.6			G4/12000
FVH (80°-90°)	175.1	0.7			G2/225
BL (0°-30°)	1286.2	5.2	B3/2500		
BM (30°-60°)	2125.3	8.6	B2/2500		
BH (60°-80°)	1262.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	76.9	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: P638503

CATALOG NUMBER: GWS-SA4E-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2
2.5°	3733.0	3712.1	3736.5	3748.7	3780.1	3825.4	3865.5	3867.2	3888.1	3938.6	3987.4
5°	3564.0	3553.5	3560.5	3597.1	3630.2	3687.7	3748.7	3753.9	3813.2	3912.5	4010.1
7.5°	3433.2	3419.3	3445.4	3492.5	3534.3	3598.8	3679.0	3685.9	3769.6	3919.5	4069.4
10°	3245.0	3234.6	3283.4	3346.1	3436.7	3543.0	3649.3	3658.1	3767.9	3964.8	4173.9
12.5°	3163.1	3163.1	3184.0	3243.3	3342.6	3483.8	3644.1	3658.1	3795.7	4034.5	4308.1
15°	3290.3	3299.1	3281.6	3278.1	3318.2	3452.4	3651.1	3672.0	3848.0	4106.0	4440.6
17.5°	3546.5	3555.2	3509.9	3438.5	3398.4	3482.0	3677.2	3699.9	3903.8	4184.4	4583.5
20°	3905.5	3916.0	3816.7	3706.9	3569.2	3567.4	3727.8	3748.7	3975.2	4269.8	4735.1
22.5°	4325.5	4332.5	4207.0	4032.8	3821.9	3726.0	3814.9	3835.8	4067.6	4388.3	4898.9
25°	4811.8	4832.7	4681.1	4428.4	4142.6	3943.9	3959.6	3984.0	4233.2	4546.9	5092.4
27.5°	5331.1	5357.3	5183.0	4904.1	4510.3	4184.4	4146.0	4166.9	4409.2	4644.5	5195.2
30°	5862.7	5881.8	5707.6	5388.6	4905.9	4456.2	4302.9	4315.1	4485.9	4691.5	5299.7
32.5°	6453.5	6437.8	6270.5	5902.7	5362.5	4782.1	4449.3	4445.8	4571.3	4785.6	5449.6
35°	7007.7	7030.3	6852.5	6446.5	5864.4	5184.7	4668.9	4654.9	4752.5	4939.0	5660.5
37.5°	7678.6	7671.6	7459.0	7019.9	6368.1	5569.9	4977.3	4952.9	4987.8	5177.8	5955.0
40°	8157.9	8206.7	8069.0	7659.4	6957.1	6043.9	5338.1	5284.1	5292.8	5472.3	6348.9
42.5°	8550.0	8595.3	8609.3	8347.8	7631.6	6629.5	5787.7	5733.7	5738.9	5993.4	6833.4
45°	8851.5	8912.5	9109.4	9032.7	8391.4	7305.7	6395.9	6340.2	6343.7	6626.0	7418.9
47.5°	8975.2	9041.5	9440.6	9623.5	9198.3	8114.3	7152.3	7070.4	7082.6	7394.5	8088.2
50°	8935.2	9024.0	9564.3	10078.4	9874.5	8936.9	8056.8	7999.3	7952.2	8405.4	8814.9
52.5°	8590.1	8687.7	9552.1	10367.7	10427.0	9714.2	8990.9	8957.8	8947.4	9478.9	9627.0
55°	7574.1	7737.9	9132.1	10444.4	10859.2	10446.1	10003.5	9947.7	10001.7	10629.1	10447.9
57.5°	7011.1	7133.1	8309.5	10359.0	11212.9	11143.2	11014.3	11019.5	11080.5	11878.7	11443.0
60°	6690.5	6833.4	7852.9	10125.5	11552.8	11990.2	12072.1	12072.1	12181.9	13225.8	12453.8
62.5°	6265.2	6409.9	7425.9	9675.8	11866.5	12987.1	13401.9	13396.6	13440.2	14670.6	13441.9
65°	5402.6	5536.8	6568.5	8966.5	12019.8	14085.0	14912.8	14897.1	14810.0	15956.7	14095.5
67.5°	3923.0	4050.2	5031.4	7617.6	11467.4	14970.3	16469.1	16476.1	15955.0	16767.1	14130.3
70°	2586.3	2673.4	3234.6	4947.7	9325.5	14588.7	17120.9	17141.8	16131.0	16261.7	12575.8
72.5°	1613.8	1674.8	2019.9	2950.5	5510.6	11547.6	15447.9	15505.4	14512.0	14290.7	10332.8
75°	1071.8	1113.6	1343.7	1720.1	2549.7	6249.6	11742.7	11927.5	11631.2	11202.5	7199.4
77.5°	644.8	679.7	855.7	1092.7	1129.3	2441.6	6854.3	7331.8	7373.6	5848.7	3015.0
80°	294.5	334.6	472.3	623.9	601.3	850.5	2417.2	2528.8	2983.6	1857.8	951.5
82.5°	174.3	191.7	313.7	310.2	256.2	413.0	869.6	892.3	758.1	679.7	406.1
85°	69.7	81.9	132.5	116.8	94.1	134.2	327.6	343.3	329.4	296.3	149.9
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	29.6	31.4	45.3	81.9	45.3
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: P638503
 CATALOG NUMBER: GWS-SA4E-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2
2.5°	4018.8	4008.4	4060.6	4100.7	4118.2	4135.6	4119.9	4114.7	4114.7	4079.8	4062.4
5°	4062.4	4067.6	4139.1	4172.2	4172.2	4158.2	4116.4	4086.8	4076.3	4031.0	4018.8
7.5°	4144.3	4166.9	4233.2	4231.4	4182.6	4106.0	4001.4	3921.2	3848.0	3816.7	3797.5
10°	4278.5	4308.1	4353.4	4280.2	4144.3	3942.1	3720.8	3546.5	3442.0	3358.3	3358.3
12.5°	4431.8	4459.7	4451.0	4282.0	4001.4	3623.2	3304.3	3103.9	2957.5	2880.8	2880.8
15°	4585.2	4607.9	4513.8	4201.8	3703.4	3199.7	2851.2	2610.7	2483.4	2412.0	2412.0
17.5°	4740.3	4738.6	4539.9	4017.1	3314.7	2730.9	2389.3	2202.9	2159.3	2147.1	2145.3
20°	4890.2	4850.1	4506.8	3708.6	2863.4	2258.6	2042.5	2054.7	2119.2	2147.1	2150.6
22.5°	5059.2	4959.9	4409.2	3314.7	2351.0	1931.0	1944.9	2046.0	2140.1	2181.9	2187.2
25°	5231.8	5054.0	4245.4	2852.9	1922.3	1810.7	1918.8	2032.1	2138.4	2192.4	2197.6
27.5°	5301.5	5054.0	3966.5	2317.9	1694.0	1760.2	1878.7	1988.5	2100.0	2162.8	2175.0
30°	5359.0	5010.4	3576.2	1835.1	1599.9	1711.4	1814.2	1915.3	2025.1	2101.8	2115.7
32.5°	5439.2	4972.1	3103.9	1542.3	1556.3	1664.3	1735.8	1821.2	1920.5	1971.1	1965.8
35°	5533.3	4912.9	2534.0	1402.9	1519.7	1624.3	1674.8	1725.3	1680.0	1678.3	1683.5
37.5°	5667.5	4860.6	2037.3	1340.2	1495.3	1596.4	1638.2	1530.1	1467.4	1441.3	1430.8
40°	5860.9	4839.7	1606.8	1303.6	1491.8	1594.6	1565.0	1397.7	1312.3	1221.7	1219.9
42.5°	6104.9	4824.0	1328.0	1286.2	1504.0	1634.7	1463.9	1310.6	1134.5	1094.5	1091.0
45°	6418.6	4799.6	1188.6	1282.7	1533.6	1666.1	1453.5	1190.3	1070.1	1052.6	1052.6
47.5°	6796.8	4761.2	1125.8	1282.7	1566.7	1652.1	1422.1	1164.2	1040.4	1059.6	1071.8
50°	7230.7	4712.4	1092.7	1279.2	1599.9	1652.1	1355.9	1158.9	1033.5	1132.8	1172.9
52.5°	7694.3	4656.7	1070.1	1265.2	1622.5	1653.9	1359.4	1176.4	1040.4	1150.2	1183.3
55°	8206.7	4648.0	1038.7	1235.6	1629.5	1608.6	1368.1	1214.7	1050.9	1042.2	1043.9
57.5°	8853.2	4752.5	1016.0	1192.1	1601.6	1516.2	1385.5	1242.6	1038.7	1040.4	1052.6
60°	9529.4	4949.5	1035.2	1150.2	1544.1	1429.1	1397.7	1228.6	979.4	951.5	955.0
62.5°	10104.5	5099.3	1050.9	1131.1	1460.4	1352.4	1385.5	1197.3	946.3	939.3	955.0
65°	10345.0	4975.6	1012.5	1091.0	1338.4	1258.3	1359.4	1157.2	918.4	892.3	894.0
67.5°	10078.4	4395.3	937.6	1002.1	1200.8	1138.0	1317.5	1104.9	880.1	848.7	841.8
70°	8609.3	3229.3	808.6	860.9	1033.5	996.9	1253.0	1036.9	819.1	796.4	780.8
72.5°	6937.9	2286.5	671.0	684.9	810.4	840.0	1141.5	951.5	749.4	684.9	662.3
75°	4829.2	1436.0	559.4	545.5	585.6	641.3	890.6	789.5	646.6	578.6	557.7
77.5°	2077.4	737.2	437.4	430.5	390.4	444.4	683.2	658.8	542.0	463.6	451.4
80°	695.4	427.0	315.4	303.2	259.7	312.0	481.0	526.3	425.2	343.3	322.4
82.5°	348.6	247.5	200.4	181.2	174.3	196.9	284.1	327.6	294.5	237.0	200.4
85°	170.8	141.2	109.8	108.1	90.6	85.4	118.5	139.4	132.5	97.6	92.4
87.5°	62.7	55.8	34.9	27.9	17.4	12.2	7.0	7.0	5.2	5.2	5.2
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)