

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: P640980

Luminaire Tested: GWS-SA5E-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28805.3 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

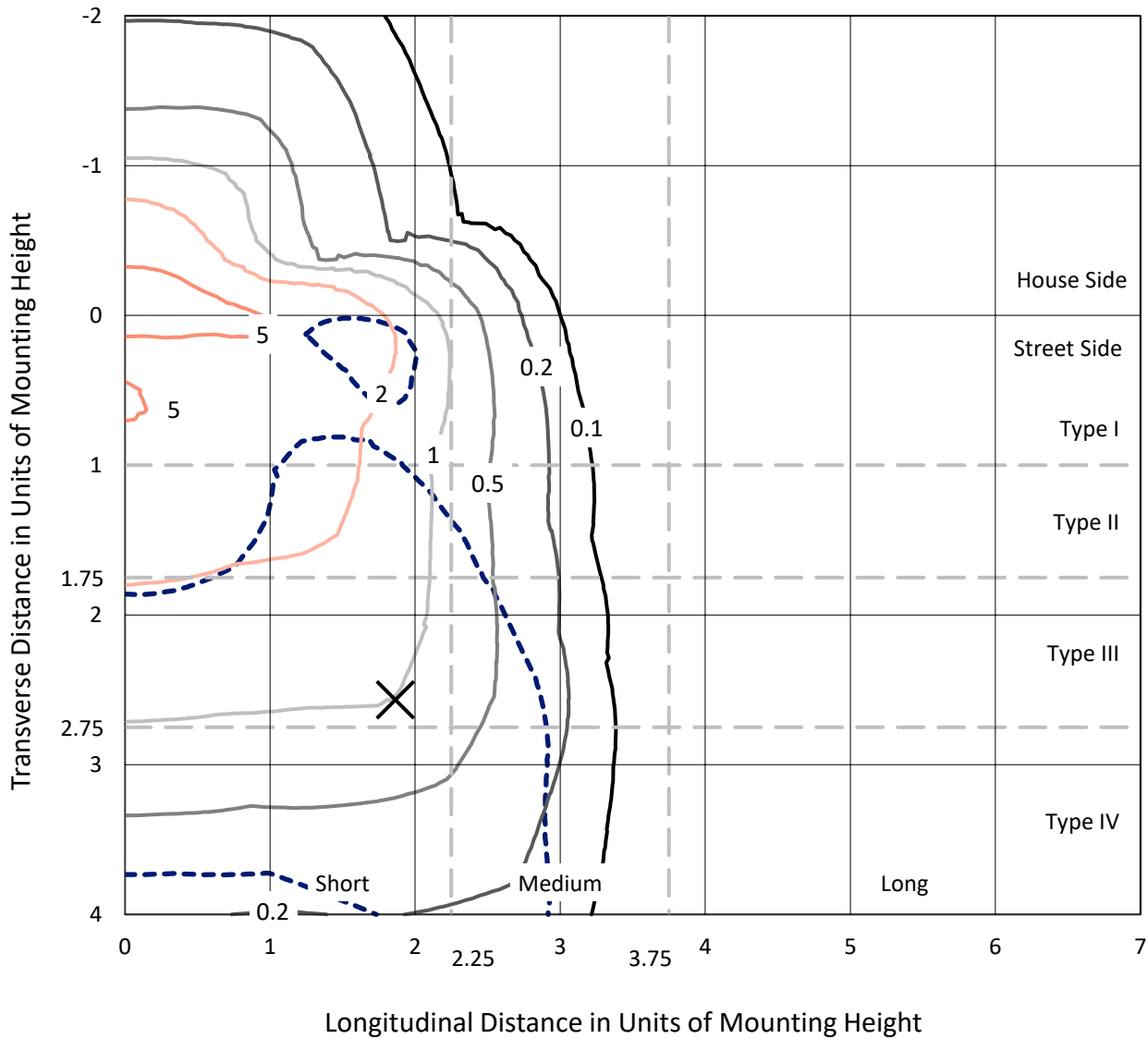
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640980
 CATALOG NUMBER: GWS-SA5E-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination

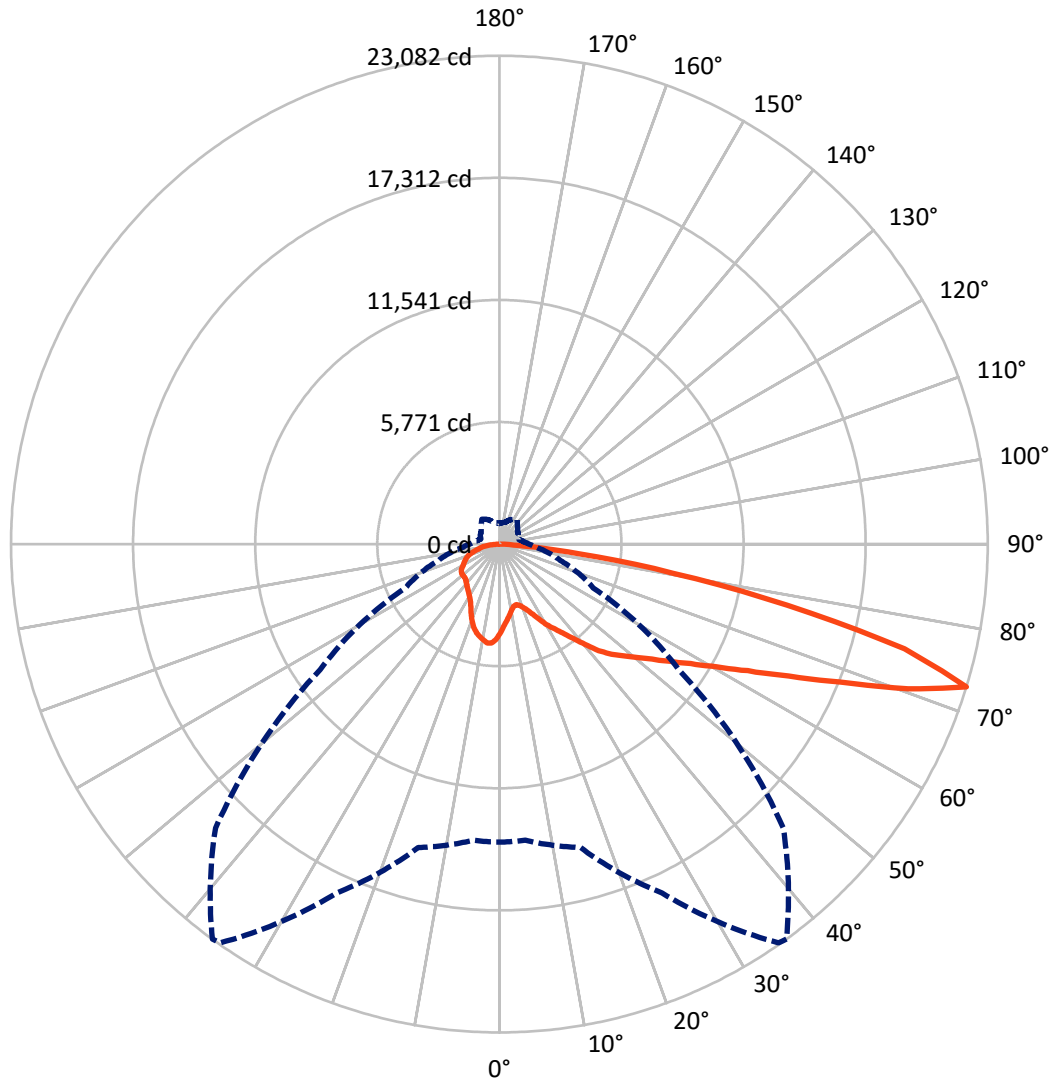
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P640980
CATALOG NUMBER: GWS-SA5E-830-U-T4FT-W

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P640980

CATALOG NUMBER: GWS-SA5E-830-U-T4FT-W

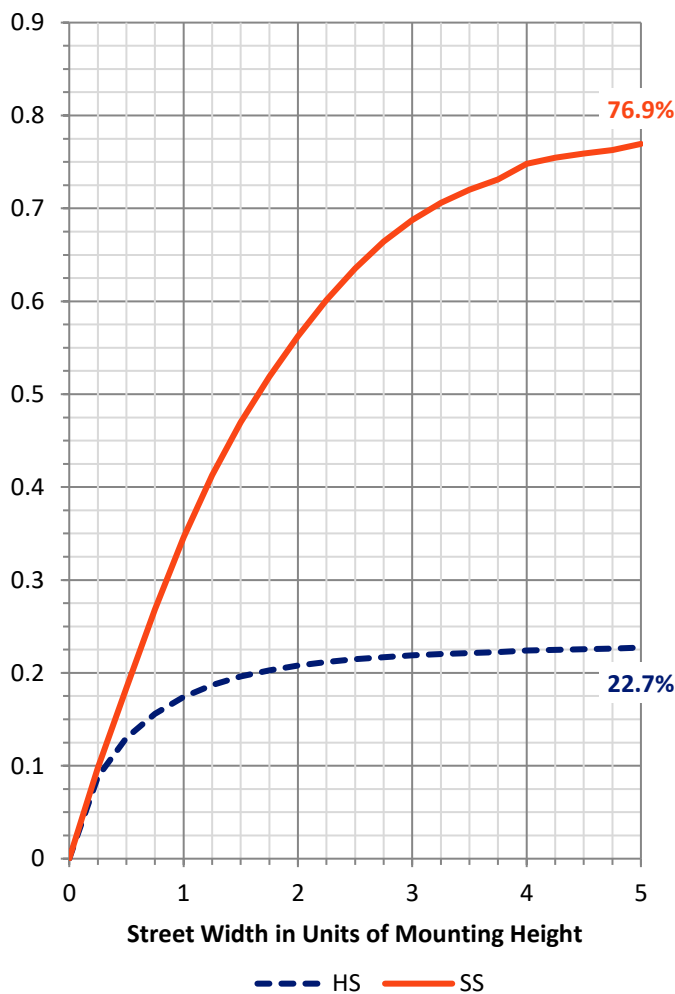
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6640.9	0.0	6640.9
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	22164.4	0.0	22164.4
	% Fixture	76.9	0.0	76.9
Total	Lumens	28805.3	0.0	28805.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.1	1.4
10°-20°	1111.8	3.9
20°-30°	1841.3	6.4
30°-40°	2757.5	9.6
40°-50°	4022.9	14.0
50°-60°	5725.9	19.9
60°-70°	7234.2	25.1
70°-80°	5155.0	17.9
80°-90°	562.7	2.0
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°	28805.3	100.0
0°-180°	28805.3	100.0

Coefficient of Utilization



REPORT NUMBER: P640980

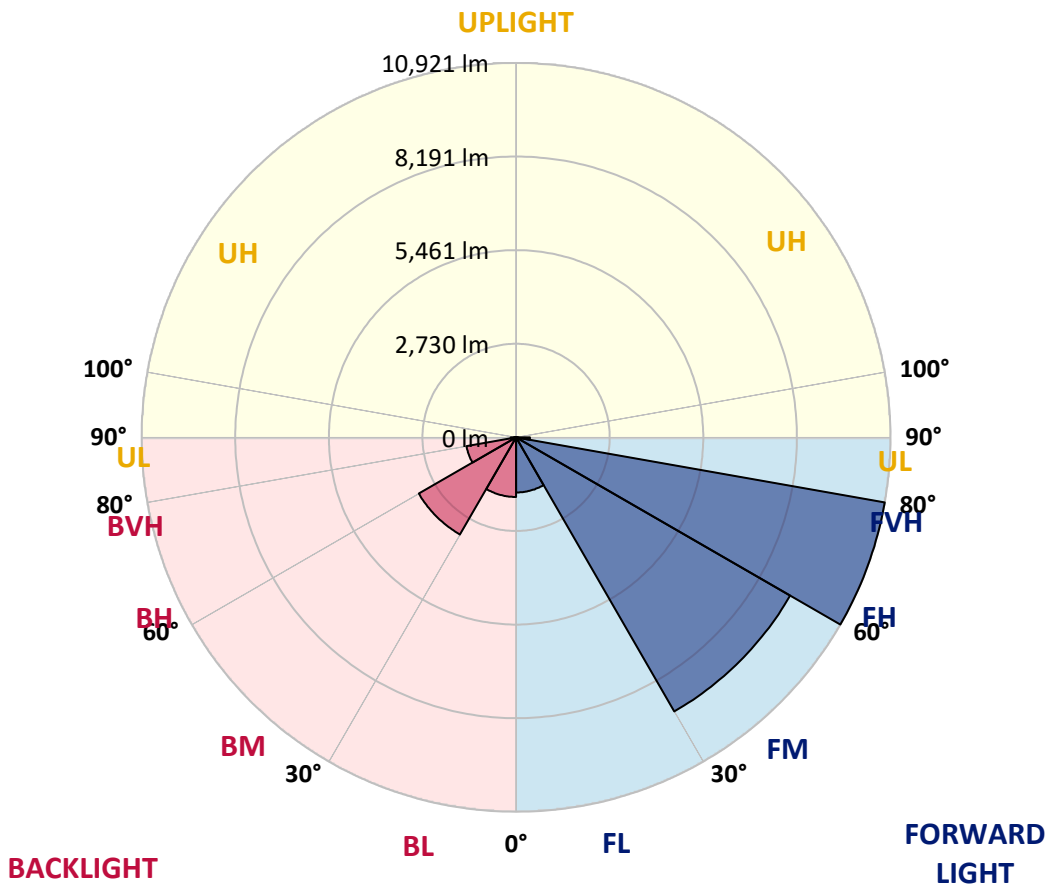
CATALOG NUMBER: GWS-SA5E-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.1	5.6			
FM (30°-60°)	9231.4	32.0			
FH (60°-80°)	10921.0	37.9			G4/12000
FVH (80°-90°)	403.9	1.4			G3/500
BL (0°-30°)	1739.0	6.0	B3/2500		
BM (30°-60°)	3274.9	11.4	B3/5000		
BH (60°-80°)	1468.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	158.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P640980
 CATALOG NUMBER: GWS-SA5E-830-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8
2.5°	3845.9	3839.5	3826.7	3865.2	3903.7	3899.4	3952.8	4004.1	4059.7	4117.4	4194.4
5°	3538.1	3533.8	3523.1	3580.9	3638.6	3636.4	3724.1	3807.5	3920.8	4044.8	4198.7
7.5°	3230.2	3219.6	3234.5	3307.2	3388.4	3397.0	3516.7	3653.5	3818.1	4004.1	4222.2
10°	2958.7	2956.6	2963.0	3044.3	3166.1	3174.7	3328.6	3518.9	3736.9	3984.9	4275.6
12.5°	2888.2	2883.9	2866.8	2907.4	2999.4	3012.2	3181.1	3414.1	3681.3	3995.6	4348.3
15°	3003.6	2993.0	2933.1	2913.9	2958.7	2969.4	3112.7	3352.1	3649.3	4014.8	4440.3
17.5°	3202.5	3196.0	3082.7	3003.6	3033.6	3042.1	3149.0	3341.4	3640.7	4053.3	4553.6
20°	3493.2	3465.4	3288.0	3168.3	3168.3	3181.1	3245.2	3388.4	3651.4	4100.3	4681.8
22.5°	3878.0	3822.4	3572.3	3409.8	3367.1	3384.2	3412.0	3506.0	3696.3	4179.4	4842.2
25°	4309.8	4258.5	3961.4	3732.6	3672.8	3679.2	3655.7	3672.8	3794.6	4288.5	5041.0
27.5°	4769.5	4735.3	4418.9	4128.1	4034.1	4034.1	3950.7	3910.1	3931.5	4412.5	5263.3
30°	5179.9	5132.9	4865.7	4547.1	4423.2	4423.2	4265.0	4177.3	4126.0	4564.2	5560.5
32.5°	5395.9	5368.1	5190.6	4946.9	4795.1	4771.6	4634.8	4532.2	4412.5	4788.7	5962.4
35°	5678.1	5671.6	5564.8	5374.5	5182.1	5147.9	5053.8	4972.6	4765.2	5068.8	6496.8
37.5°	6032.9	6022.2	6005.1	5891.8	5661.0	5654.5	5571.2	5472.8	5203.5	5472.8	7144.6
40°	6430.6	6411.3	6389.9	6387.8	6248.9	6225.3	6218.9	6107.8	5731.5	5960.2	7820.2
42.5°	6977.9	6911.6	6710.6	6800.4	6903.0	6881.6	6962.9	6796.1	6389.9	6539.6	8459.4
45°	7651.3	7488.8	7091.2	7116.8	7375.5	7418.2	7700.4	7659.8	7114.7	7208.7	9132.8
47.5°	8055.3	7914.2	7544.4	7523.0	7845.8	7899.3	8512.8	8589.8	7895.0	8014.7	9964.4
50°	8386.7	8288.3	7984.8	8014.7	8356.7	8410.2	9318.8	9483.4	8630.4	8839.9	10930.7
52.5°	8786.4	8645.4	8410.2	8551.3	8970.3	9034.4	10214.5	10392.0	9293.1	9746.3	11931.2
55°	9010.9	8953.2	8957.5	9173.4	9699.3	9786.9	11153.0	11123.1	9900.3	10522.4	12683.7
57.5°	9528.3	9506.9	9703.6	9784.8	10550.2	10663.5	12091.5	11835.0	10451.8	11123.1	13045.0
60°	10441.1	10387.7	10558.7	10682.7	11602.0	11762.3	13139.1	12531.9	10825.9	11569.9	12923.1
62.5°	11723.8	11657.5	11664.0	11860.6	13010.8	13179.7	14304.2	13113.4	10941.4	11638.3	12151.4
65°	13318.6	13222.4	13113.4	13380.6	14881.4	15022.5	15571.9	13536.7	10665.6	10979.9	10539.5
67.5°	15001.1	14922.0	14793.7	15353.8	17303.5	17389.0	16993.5	13500.3	9791.2	9218.3	7392.6
70°	15099.4	15118.7	15725.8	17752.5	20465.4	20486.7	18338.2	12769.2	7929.2	5975.2	3683.5
72.5°	14086.1	14054.0	14845.0	18190.7	23009.4	23082.1	18973.2	10344.9	4899.9	2980.1	1727.4
75°	11441.6	11497.2	12328.8	15916.1	19721.4	19785.5	15467.1	6099.2	2328.1	1458.0	1105.3
77.5°	4925.5	5235.5	6875.2	11212.9	14124.6	13925.8	7971.9	2471.3	1242.1	1039.0	846.6
80°	1421.7	1543.5	2449.9	5331.7	8463.6	8314.0	3155.4	925.7	865.8	780.3	607.1
82.5°	459.6	508.8	897.9	2122.9	3792.5	3788.2	1197.2	547.3	566.5	530.2	391.2
85°	128.3	147.5	275.8	643.5	1173.7	1150.1	346.3	258.7	301.4	305.7	194.5
87.5°	0.0	0.0	2.1	4.3	4.3	4.3	8.6	38.5	87.7	111.2	79.1
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: P640980
 CATALOG NUMBER: GWS-SA5E-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8	4215.8
2.5°	4241.4	4235.0	4322.7	4391.1	4455.2	4498.0	4510.8	4519.4	4536.5	4545.0	4536.5
5°	4271.4	4303.4	4448.8	4555.7	4641.2	4692.5	4694.7	4690.4	4703.2	4692.5	4686.1
7.5°	4335.5	4397.5	4581.4	4694.7	4750.2	4752.4	4701.1	4641.2	4611.3	4585.6	4577.1
10°	4421.0	4512.9	4713.9	4788.7	4771.6	4692.5	4579.2	4485.2	4431.7	4393.2	4384.7
12.5°	4538.6	4641.2	4831.5	4829.3	4722.4	4581.4	4448.8	4335.5	4258.5	4213.6	4198.7
15°	4649.8	4780.2	4917.0	4816.5	4647.6	4476.6	4305.6	4153.8	4051.2	3980.6	3967.8
17.5°	4786.6	4925.5	4979.0	4775.9	4553.6	4333.4	4104.6	3905.8	3766.8	3683.5	3677.1
20°	4944.8	5068.8	5008.9	4705.3	4431.7	4143.1	3833.1	3610.8	3461.1	3379.9	3386.3
22.5°	5128.6	5218.4	5017.5	4609.1	4262.8	3873.7	3527.4	3313.6	3213.1	3170.4	3172.5
25°	5325.3	5383.0	5002.5	4478.7	4004.1	3544.5	3213.1	3114.8	3106.3	3095.6	3099.8
27.5°	5558.3	5545.5	4957.6	4294.9	3655.7	3161.8	2993.0	3018.6	3052.8	3048.5	3052.8
30°	5870.5	5748.6	4899.9	4040.5	3240.9	2841.2	2862.5	2935.2	2980.1	2984.4	2997.2
32.5°	6227.5	5973.1	4808.0	3694.2	2845.4	2661.6	2740.7	2828.3	2881.8	2892.5	2909.6
35°	6652.9	6229.6	4645.5	3262.3	2561.1	2554.7	2627.4	2687.2	2745.0	2749.2	2749.2
37.5°	7142.5	6486.2	4386.8	2785.6	2385.8	2462.8	2531.2	2544.0	2559.0	2546.1	2552.6
40°	7591.4	6734.1	4019.1	2351.6	2242.6	2381.5	2439.3	2396.5	2349.5	2317.4	2323.8
42.5°	7967.7	6903.0	3531.7	2048.0	2097.2	2308.8	2353.7	2266.1	2174.2	2114.3	2122.9
45°	8391.0	7059.1	2958.7	1842.8	1973.2	2257.5	2287.5	2174.2	2056.6	1966.8	1954.0
47.5°	8974.6	7377.6	2449.9	1699.6	1885.6	2229.7	2278.9	2125.0	1971.1	1836.4	1821.4
50°	9695.0	7828.7	2024.5	1605.5	1844.9	2214.8	2276.8	2071.5	1887.7	1729.5	1718.8
52.5°	10481.7	8269.1	1710.3	1532.8	1804.3	2169.9	2266.1	2011.7	1800.0	1629.0	1616.2
55°	11005.5	8442.3	1498.6	1464.4	1738.0	2099.3	2223.3	1954.0	1667.5	1511.4	1492.2
57.5°	11159.4	8219.9	1351.1	1402.4	1652.5	2001.0	2142.1	1832.1	1586.3	1462.3	1447.3
60°	10894.3	7659.8	1259.2	1351.1	1558.5	1874.9	2001.0	1761.6	1522.1	1411.0	1400.3
62.5°	10146.1	6796.1	1188.6	1297.7	1462.3	1742.3	1911.2	1676.1	1451.6	1363.9	1349.0
65°	8641.1	5573.3	1130.9	1242.1	1370.3	1616.2	1812.9	1590.5	1374.6	1308.3	1291.2
67.5°	6043.6	3914.4	1068.9	1175.8	1278.4	1494.3	1710.3	1511.4	1295.5	1246.4	1229.2
70°	2954.5	2075.8	994.1	1098.8	1180.1	1370.3	1607.6	1415.2	1190.8	1163.0	1139.5
72.5°	1406.7	1160.8	906.4	994.1	1045.4	1205.7	1436.6	1276.3	1066.8	1006.9	966.3
75°	942.8	825.2	791.0	870.1	882.9	1011.2	1231.4	1101.0	940.6	872.2	838.0
77.5°	714.0	630.7	664.9	735.4	709.8	831.6	1013.3	981.3	848.7	786.7	769.6
80°	502.4	459.6	528.0	570.8	551.6	707.6	912.8	840.2	699.1	630.7	617.8
82.5°	316.4	307.8	389.1	395.5	401.9	560.1	750.4	660.6	543.0	446.8	414.7
85°	158.2	175.3	233.0	233.0	230.9	288.6	427.6	372.0	292.9	233.0	226.6
87.5°	53.4	74.8	100.5	81.2	62.0	49.2	55.6	68.4	72.7	70.5	70.5
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)