

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: P638487

Luminaire Tested: GWS-SA4E-830-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-830-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24265.9 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

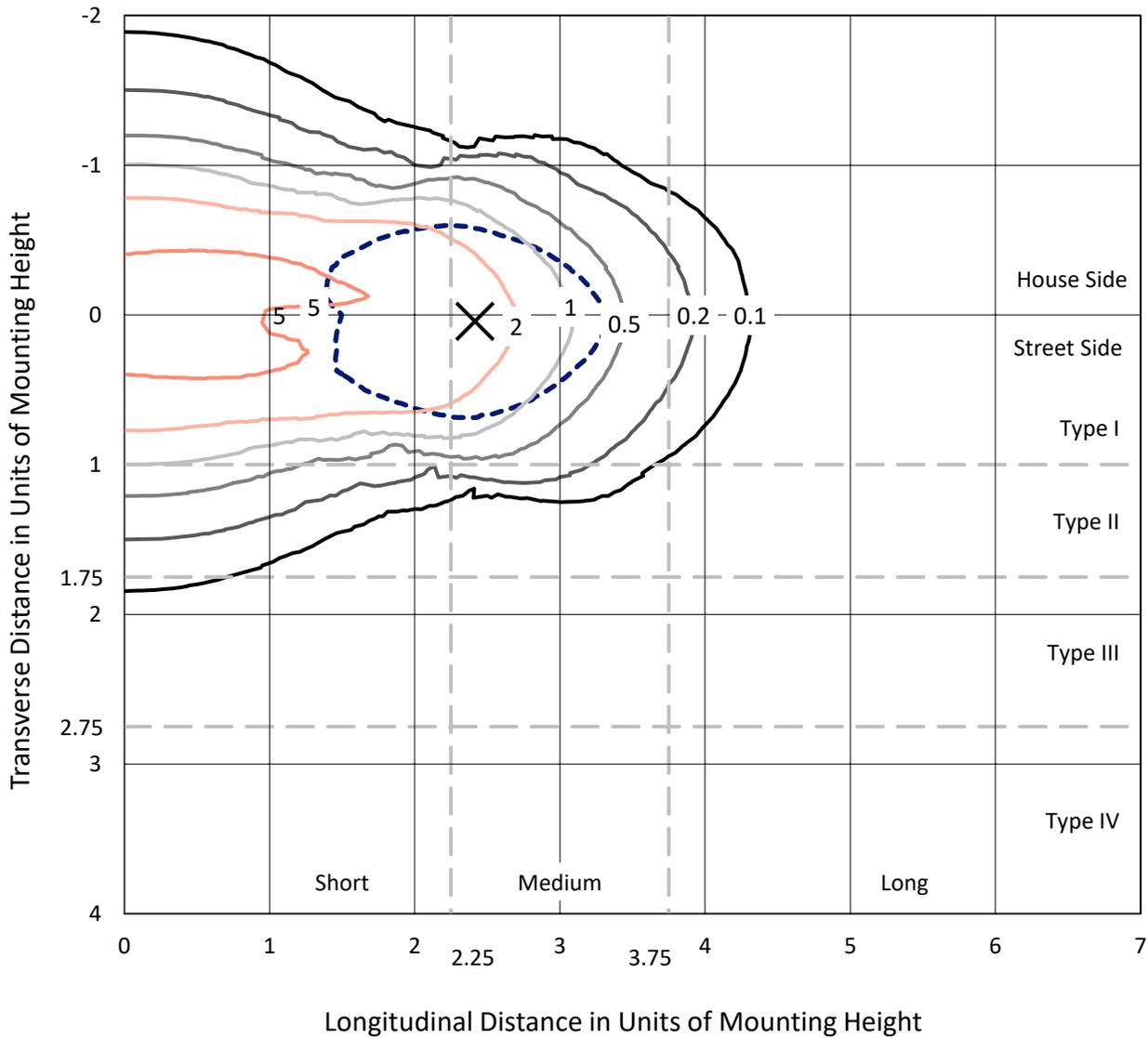
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638487
 CATALOG NUMBER: GWS-SA4E-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

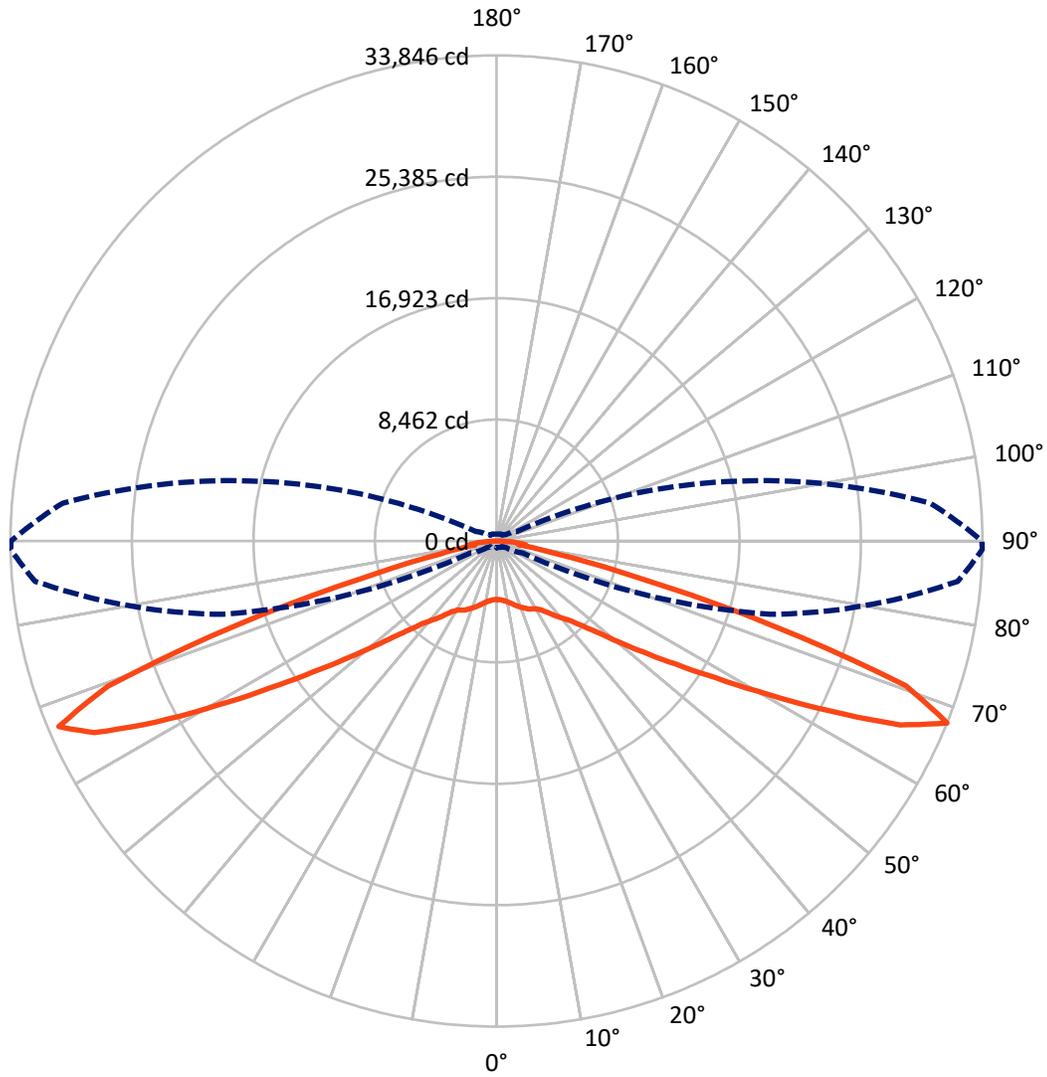
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type I - Medium - N/A

REPORT NUMBER: P638487
CATALOG NUMBER: GWS-SA4E-830-U-T1-W

Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638487

CATALOG NUMBER: GWS-SA4E-830-U-T1-W

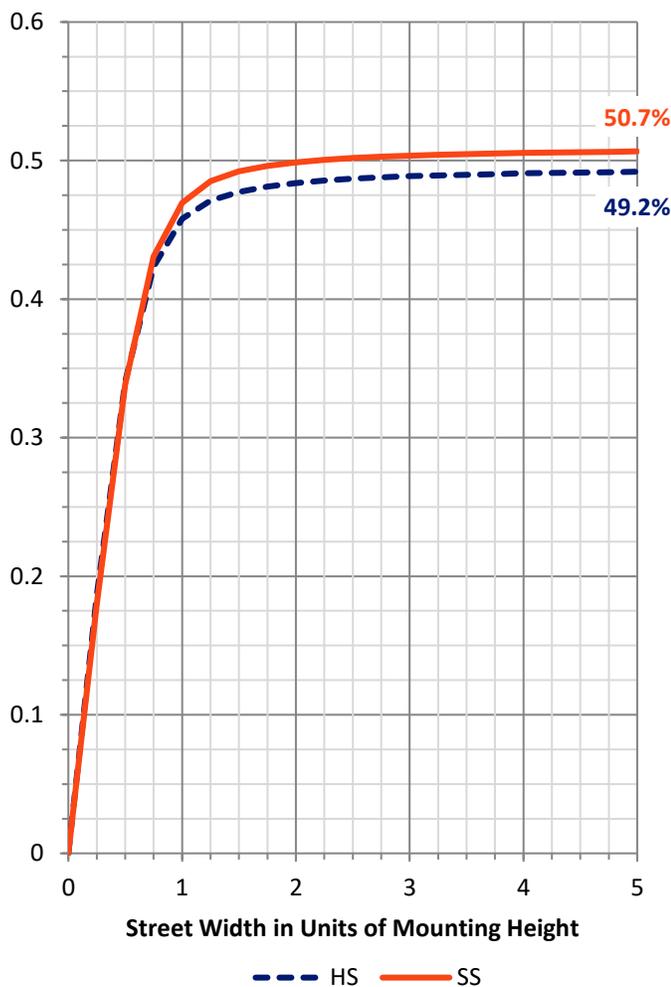
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12026.6	0.0	12026.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12239.3	0.0	12239.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	24265.9	0.0	24265.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.5	1.7
10°-20°	1330.3	5.5
20°-30°	2248.7	9.3
30°-40°	3086.1	12.7
40°-50°	3935.5	16.2
50°-60°	4937.6	20.3
60°-70°	5955.2	24.5
70°-80°	2154.4	8.9
80°-90°	209.5	0.9
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°	24265.9	100.0
0°-180°	24265.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638487

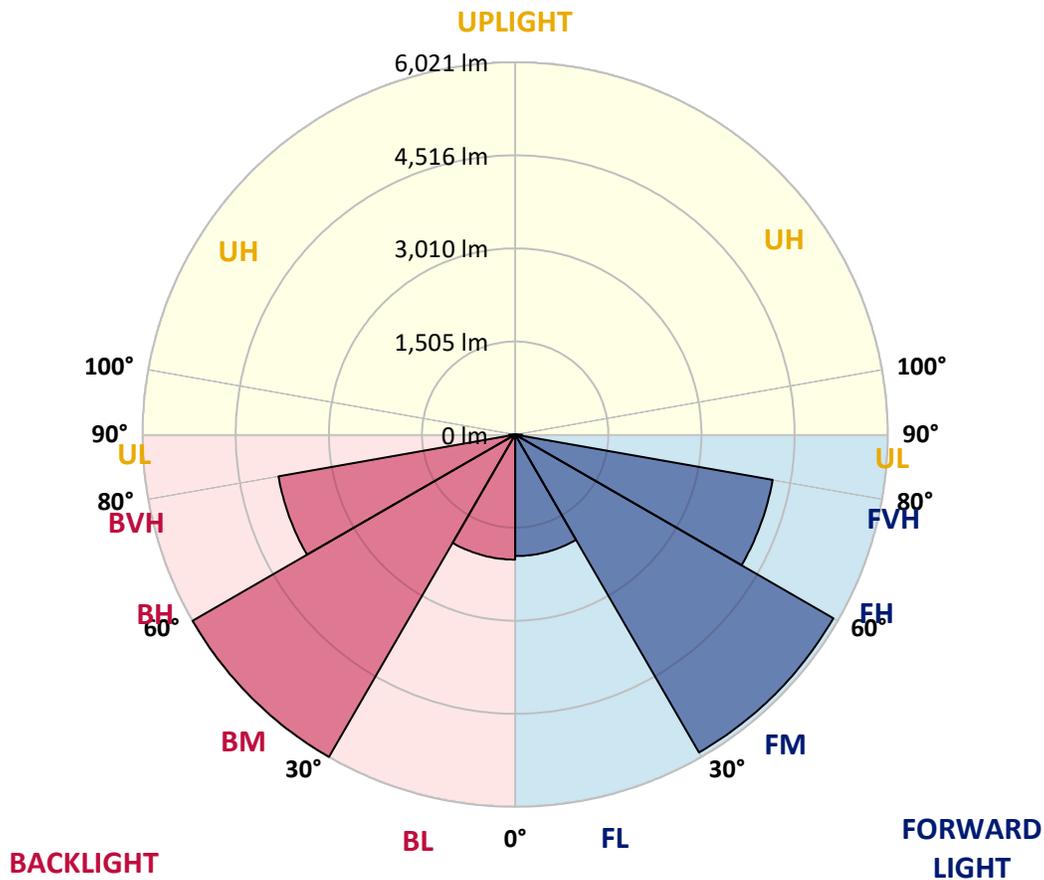
CATALOG NUMBER: GWS-SA4E-830-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.4	8.1			
FM (30°-60°)	5938.3	24.5			
FH (60°-80°)	4225.0	17.4			G2/5000
FVH (80°-90°)	110.5	0.5			G2/225
BL (0°-30°)	2022.2	8.3	B3/2500		
BM (30°-60°)	6020.9	24.8	B4/8500		
BH (60°-80°)	3884.6	16.0	B4/5000		G4/5000
BVH (80°-90°)	99.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





REPORT NUMBER: P638487
 CATALOG NUMBER: GWS-SA4E-830-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8
2.5°	4085.0	4081.5	4072.8	4099.0	4093.7	4095.5	4105.9	4099.0	4086.8	4065.9	4095.5
5°	4200.1	4198.3	4179.1	4194.8	4177.4	4165.2	4163.5	4146.0	4132.1	4109.4	4140.8
7.5°	4311.6	4309.9	4294.2	4322.1	4308.1	4294.2	4278.5	4243.6	4210.5	4177.4	4212.3
10°	4397.0	4395.2	4391.8	4431.8	4435.3	4440.6	4433.6	4374.3	4316.8	4276.7	4311.6
12.5°	4445.8	4451.0	4459.7	4532.9	4569.5	4604.4	4613.1	4564.3	4468.4	4410.9	4452.8
15°	4412.7	4423.1	4466.7	4599.2	4700.2	4778.7	4811.8	4771.7	4647.9	4552.1	4599.2
17.5°	4254.1	4262.8	4348.2	4550.4	4773.4	4954.7	5008.7	4984.3	4846.6	4729.9	4775.2
20°	4034.5	4053.7	4146.0	4428.4	4761.2	5076.7	5221.3	5212.6	5062.7	4883.2	4937.2
22.5°	3835.8	3858.5	3956.1	4268.0	4679.3	5108.0	5435.7	5458.3	5259.7	5036.6	5080.2
25°	3612.7	3633.7	3759.1	4078.1	4538.2	5083.6	5618.7	5721.5	5482.7	5212.6	5252.7
27.5°	3384.4	3400.1	3523.9	3863.7	4353.4	5038.3	5763.3	6010.8	5702.3	5334.6	5362.5
30°	3184.0	3204.9	3318.2	3649.3	4151.3	4947.7	5881.8	6319.3	5955.0	5472.3	5494.9
32.5°	2990.6	3008.0	3131.7	3438.5	3936.9	4808.3	5988.1	6681.8	6329.7	5728.5	5728.5
35°	2746.6	2778.0	2917.4	3236.3	3734.7	4623.5	6064.8	7103.5	6842.1	6106.6	6108.4
37.5°	2521.8	2539.2	2685.6	3008.0	3522.1	4414.4	6071.8	7540.9	7490.4	6587.6	6591.1
40°	2265.6	2288.2	2445.1	2764.0	3278.1	4194.8	6005.6	7948.7	8170.1	7082.6	7063.4
42.5°	2005.9	2039.0	2188.9	2500.9	3015.0	3926.4	5829.5	8337.4	9032.7	7656.0	7608.9
45°	1755.0	1775.9	1925.8	2220.3	2713.5	3605.8	5547.2	8710.3	10057.5	8527.3	8459.4
47.5°	1472.6	1481.3	1636.5	1918.8	2401.5	3248.5	5142.9	9043.2	11183.3	9681.0	9564.3
50°	1221.7	1233.9	1355.9	1598.1	2019.9	2825.0	4639.2	9238.4	12617.6	11254.8	11052.6
52.5°	988.1	1000.3	1097.9	1291.4	1669.6	2342.3	4015.3	9193.1	14072.8	13208.4	12913.9
55°	798.2	806.9	873.1	1024.7	1314.0	1863.0	3278.1	8787.0	15688.3	15759.8	15125.4
57.5°	674.4	677.9	723.2	815.6	1026.5	1436.0	2530.5	7828.5	17382.3	19015.3	17973.1
60°	603.0	604.7	625.7	683.2	810.4	1096.2	1854.3	6301.8	19137.3	23088.1	21659.1
62.5°	557.7	557.7	575.1	608.2	672.7	843.5	1362.8	4526.0	20397.3	27520.0	26099.6
65°	514.1	514.1	526.3	554.2	589.1	688.4	1023.0	2919.1	21016.0	31225.1	30909.6
67.5°	458.3	460.1	468.8	498.4	529.8	575.1	775.5	1974.5	19731.6	32249.8	33846.2
70°	406.1	407.8	420.0	439.2	465.3	496.7	606.5	1361.1	14362.1	26859.5	30263.1
72.5°	348.6	355.5	364.2	385.2	400.8	423.5	494.9	881.8	8356.5	17277.7	20005.2
75°	285.8	294.5	305.0	325.9	336.4	345.1	407.8	629.1	4020.6	8755.6	9970.3
77.5°	221.3	230.0	242.2	261.4	268.4	278.8	312.0	454.9	1925.8	3881.1	4184.4
80°	148.1	151.6	162.1	184.7	196.9	203.9	230.0	310.2	836.5	1558.0	1544.1
82.5°	90.6	92.4	95.9	109.8	115.0	122.0	149.9	190.0	399.1	1770.6	2030.3
85°	33.1	31.4	29.6	38.3	45.3	52.3	69.7	95.9	174.3	1216.4	1361.1
87.5°	0.0	0.0	0.0	1.7	3.5	3.5	7.0	13.9	41.8	454.9	312.0
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: P638487
 CATALOG NUMBER: GWS-SA4E-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8
2.5°	4086.8	4067.6	4092.0	4109.4	4147.8	4161.7	4165.2	4153.0	4153.0	4132.1	4135.6
5°	4133.8	4121.6	4161.7	4191.3	4247.1	4268.0	4282.0	4273.3	4278.5	4264.5	4268.0
7.5°	4205.3	4194.8	4264.5	4322.1	4379.6	4404.0	4416.2	4409.2	4410.9	4393.5	4398.7
10°	4304.6	4308.1	4391.8	4466.7	4543.4	4567.8	4573.0	4552.1	4534.7	4503.3	4505.0
12.5°	4440.6	4458.0	4576.5	4660.1	4738.6	4773.4	4735.1	4658.4	4587.0	4532.9	4526.0
15°	4588.7	4620.1	4790.9	4897.2	4982.6	4965.1	4851.9	4679.3	4538.2	4458.0	4442.3
17.5°	4766.5	4813.5	5027.9	5155.1	5228.3	5116.8	4879.7	4621.8	4424.9	4316.8	4295.9
20°	4933.8	5008.7	5278.8	5444.4	5453.1	5202.1	4867.5	4505.0	4257.6	4125.1	4097.2
22.5°	5087.1	5183.0	5542.0	5752.9	5639.6	5240.5	4792.6	4339.5	4055.4	3900.3	3875.9
25°	5254.4	5390.4	5848.7	6045.6	5826.1	5224.8	4635.7	4133.8	3811.4	3652.8	3635.4
27.5°	5369.5	5540.2	6157.2	6345.4	5979.4	5135.9	4433.6	3909.0	3588.3	3438.5	3414.1
30°	5501.9	5719.7	6497.0	6671.3	6073.5	5005.2	4217.5	3699.9	3381.0	3218.9	3201.5
32.5°	5742.4	6016.0	6918.8	7016.4	6103.2	4843.1	4010.1	3497.7	3164.9	3002.8	2978.4
35°	6129.3	6450.0	7511.3	7401.5	6080.5	4665.4	3813.2	3260.7	2943.5	2791.9	2767.5
37.5°	6617.3	7016.4	8171.8	7748.3	6017.8	4470.2	3579.6	3062.0	2744.9	2591.5	2577.5
40°	7072.1	7563.6	8912.5	8048.1	5890.5	4229.7	3354.8	2854.6	2530.5	2368.4	2337.0
42.5°	7642.0	8295.5	9769.9	8307.7	5681.4	3942.1	3102.1	2598.5	2262.1	2115.7	2077.4
45°	8508.2	9320.3	10766.8	8557.0	5369.5	3588.3	2784.9	2286.5	1967.6	1817.7	1788.1
47.5°	9588.7	10601.2	11847.3	8705.1	4895.4	3215.4	2425.9	1957.1	1638.2	1469.1	1455.2
50°	11106.6	12464.2	13006.2	8679.0	4365.6	2772.7	2021.6	1565.0	1298.4	1176.4	1157.2
52.5°	12955.7	14803.0	14259.3	8365.3	3802.7	2269.1	1575.5	1228.6	1030.0	942.8	927.1
55°	15275.3	17603.6	15578.6	7692.6	3091.7	1737.5	1237.4	969.0	833.0	780.8	773.8
57.5°	18147.4	21230.3	16849.0	6559.8	2324.8	1326.2	953.3	799.9	735.4	704.1	702.3
60°	21937.9	25080.1	17952.2	5097.6	1664.3	1014.3	787.7	714.5	664.0	643.1	641.3
62.5°	26444.7	28576.1	18638.8	3471.6	1251.3	808.6	693.6	648.3	618.7	606.5	604.7
65°	31076.9	30785.9	18311.2	2274.3	949.8	686.6	622.2	597.8	571.6	559.4	559.4
67.5°	33813.1	30318.8	15796.4	1578.9	752.9	603.0	561.2	538.5	494.9	484.5	484.5
70°	29949.4	24567.7	10353.8	1155.5	610.0	528.1	488.0	456.6	439.2	428.7	427.0
72.5°	19808.2	15986.4	5505.4	801.7	508.9	449.6	413.0	400.8	379.9	369.5	367.7
75°	9858.8	8396.6	2821.5	578.6	423.5	360.8	345.1	339.8	322.4	308.5	305.0
77.5°	4109.4	3738.2	1315.8	420.0	322.4	291.0	277.1	277.1	257.9	242.2	235.3
80°	1549.3	1380.3	622.2	287.6	238.8	216.1	207.4	200.4	184.7	165.6	155.1
82.5°	2072.1	1354.1	305.0	179.5	156.8	139.4	127.2	122.0	113.3	104.6	97.6
85°	1341.9	962.0	137.7	92.4	78.4	59.3	52.3	48.8	43.6	38.3	34.9
87.5°	273.6	322.4	41.8	17.4	10.5	5.2	5.2	1.7	0.0	0.0	0.0
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)