

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: P641303

Luminaire Tested: GWS-SA5F-750-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-750-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

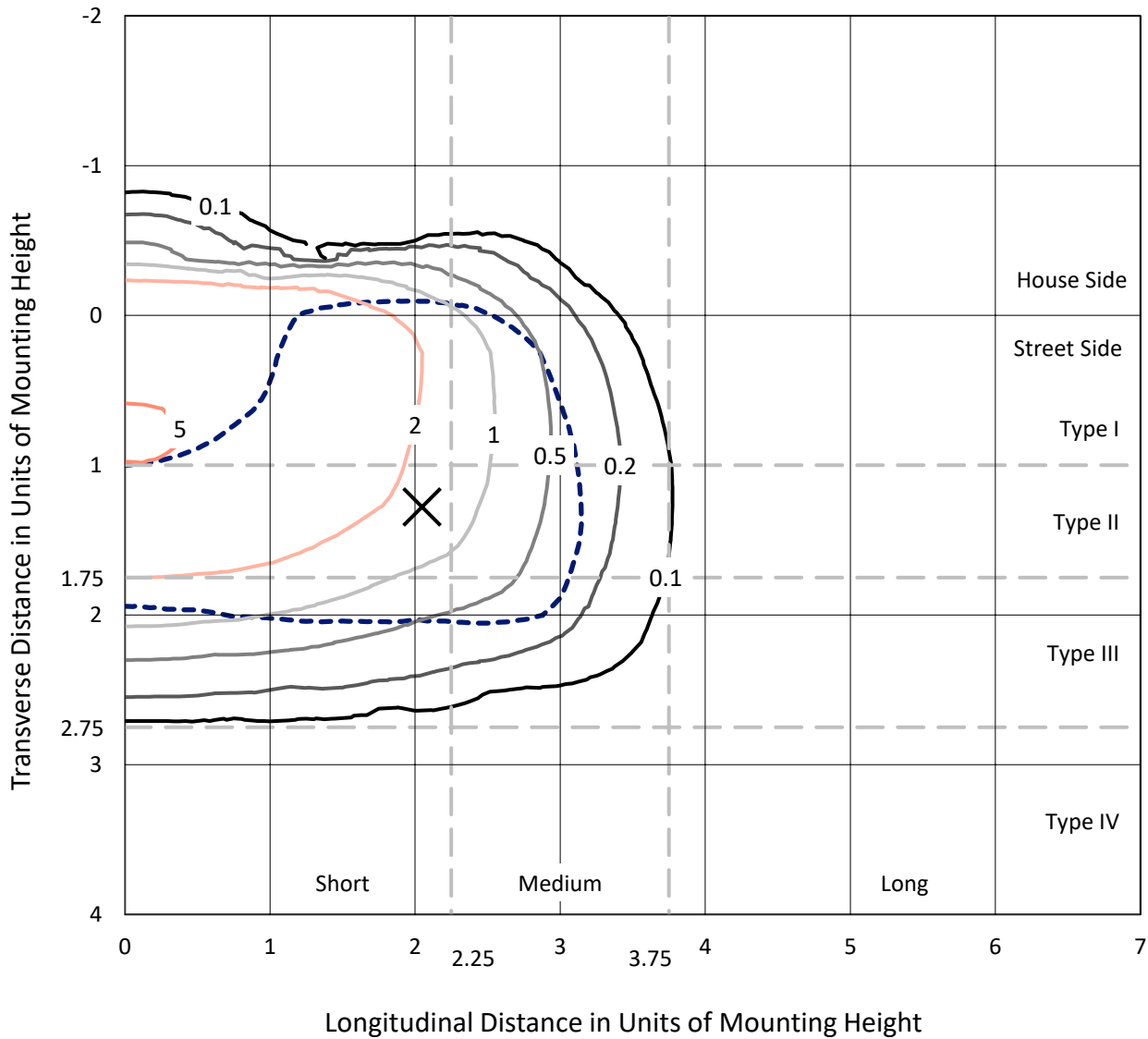
Lumens per Lamp: N/A  
Luminaire Lumens: 31344.3 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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: P641303  
 CATALOG NUMBER: GWS-SA5F-750-U-T3-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

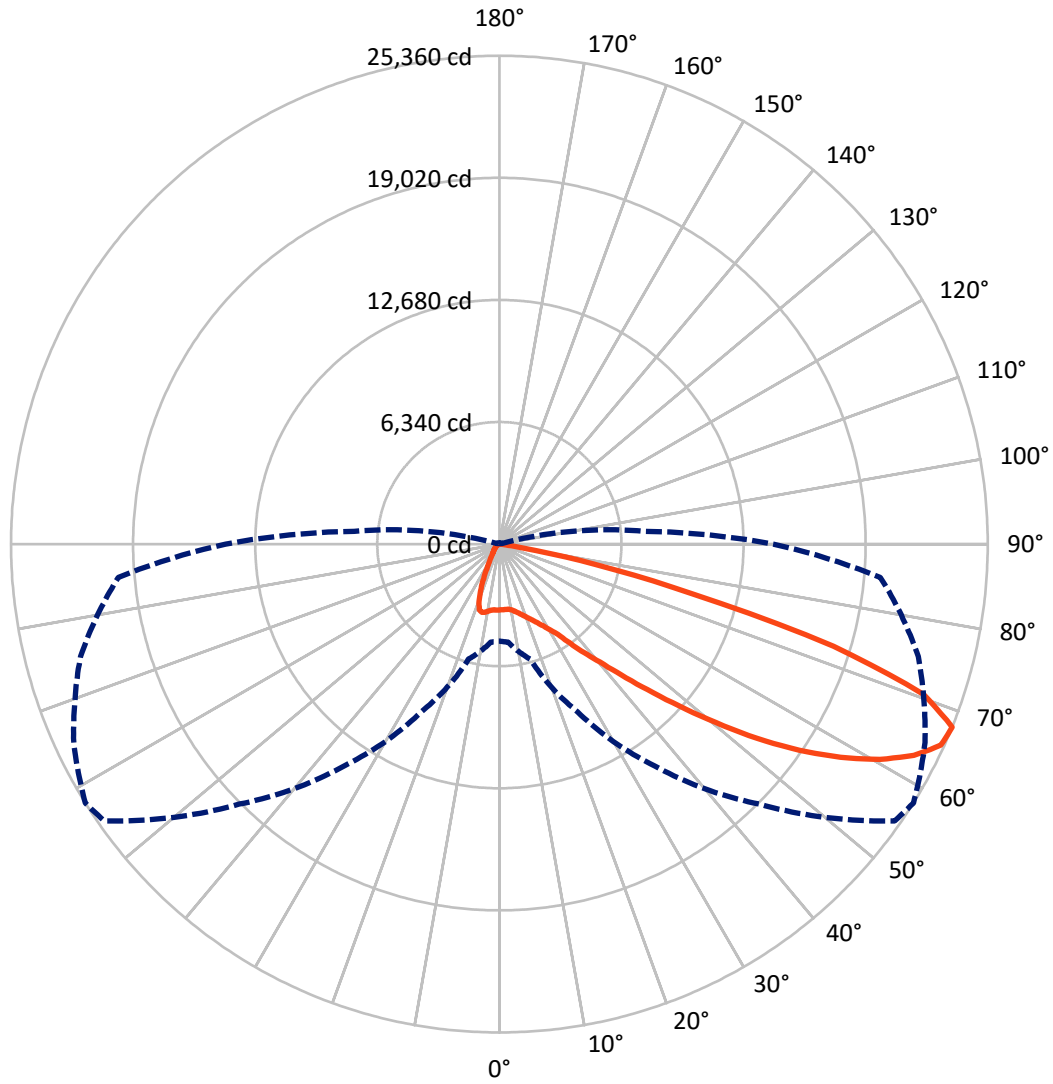
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P641303  
CATALOG NUMBER: GWS-SA5F-750-U-T3-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P641303

CATALOG NUMBER: GWS-SA5F-750-U-T3-W-HSS

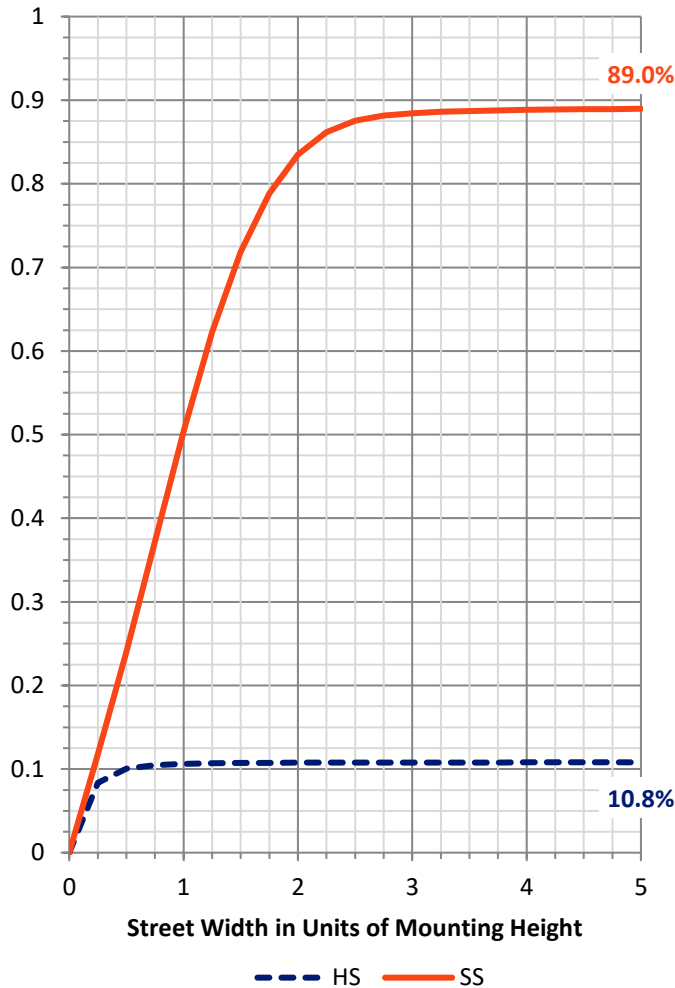
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3419.6	0.0	3419.6
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	27924.7	0.0	27924.7
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	31344.3	0.0	31344.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.8	1.0
10°-20°	900.9	2.9
20°-30°	1572.5	5.0
30°-40°	2808.3	9.0
40°-50°	5133.0	16.4
50°-60°	8536.7	27.2
60°-70°	9272.3	29.6
70°-80°	2722.4	8.7
80°-90°	77.5	0.2
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°	31344.3	100.0
0°-180°	31344.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641303

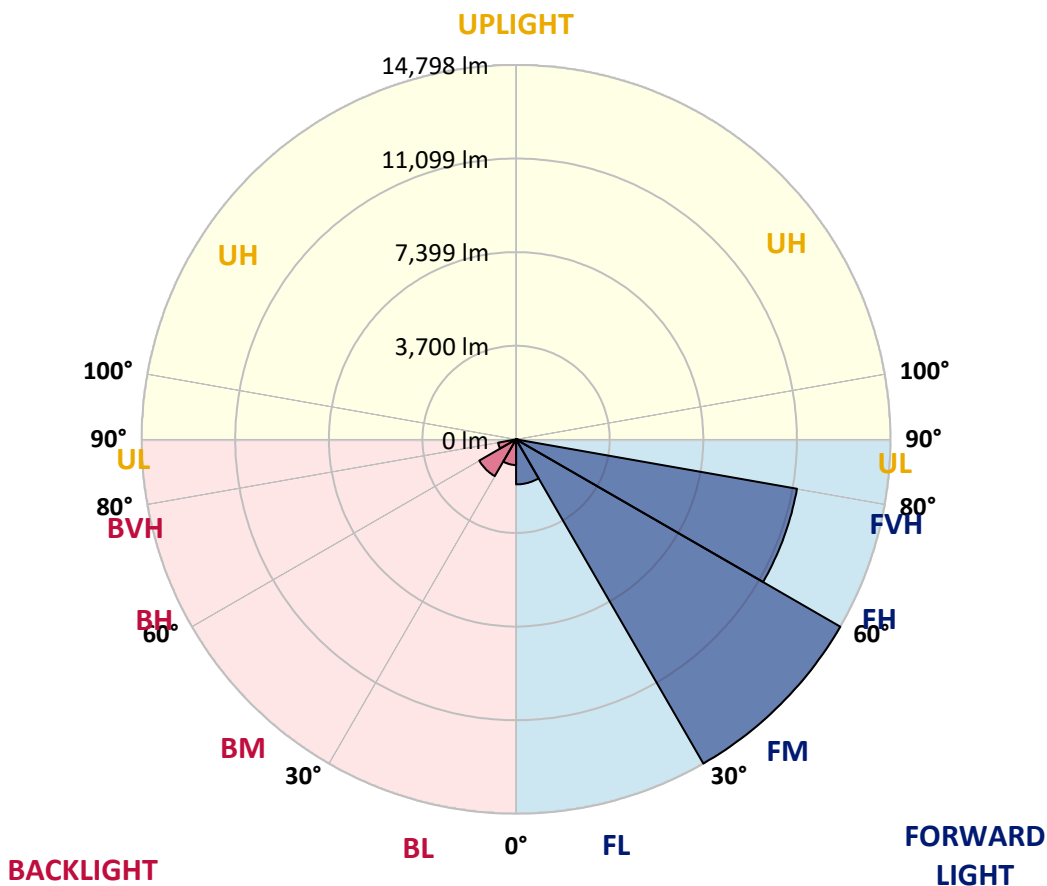
CATALOG NUMBER: GWS-SA5F-750-U-T3-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1779.9	5.7			
FM (30°-60°)	14798.3	47.2			
FH (60°-80°)	11272.8	36.0			G4/12000
FVH (80°-90°)	73.7	0.2			G1/100
BL (0°-30°)	1014.3	3.2	B3/2500		
BM (30°-60°)	1679.6	5.4	B2/2500		
BH (60°-80°)	721.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
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 Short





REPORT NUMBER: P641303

CATALOG NUMBER: GWS-SA5F-750-U-T3-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6
2.5°	3351.3	3345.2	3345.2	3369.7	3372.7	3385.0	3412.5	3415.6	3430.9	3424.8	3403.3
5°	3176.9	3179.9	3198.3	3241.1	3277.9	3323.8	3391.1	3406.4	3440.1	3458.4	3446.2
7.5°	3014.7	3017.7	3045.3	3112.6	3183.0	3274.8	3385.0	3415.6	3482.9	3531.9	3535.0
10°	2953.4	2950.4	2977.9	3054.4	3146.3	3274.8	3434.0	3473.7	3574.7	3660.4	3675.7
12.5°	2971.8	2968.7	2996.3	3066.7	3167.7	3329.9	3519.7	3574.7	3703.3	3834.9	3862.4
15°	3045.3	3042.2	3060.6	3118.7	3228.9	3397.2	3629.8	3712.5	3874.7	4033.8	4076.7
17.5°	3265.6	3250.3	3232.0	3238.1	3302.4	3476.8	3770.6	3871.6	4073.6	4263.4	4300.1
20°	3657.4	3617.6	3568.6	3504.3	3473.7	3593.1	3932.8	4049.1	4294.0	4511.3	4517.4
22.5°	4248.1	4232.8	4119.5	3932.8	3801.2	3804.3	4122.6	4257.2	4557.2	4795.9	4762.2
25°	5071.4	5062.2	4887.7	4581.7	4238.9	4122.6	4364.4	4502.1	4869.4	5123.4	5016.3
27.5°	6093.6	6029.3	5824.3	5411.1	4900.0	4535.8	4670.4	4792.8	5199.9	5438.6	5236.6
30°	6984.2	6987.3	6794.5	6362.9	5787.5	5157.1	5043.8	5150.9	5502.9	5753.9	5509.0
32.5°	7841.2	7868.7	7657.5	7268.8	6638.4	5968.1	5579.4	5597.8	5891.6	6164.0	5867.1
35°	8636.9	8658.3	8511.4	8180.9	7593.3	6815.9	6326.2	6317.0	6476.2	6754.7	6366.0
37.5°	9527.5	9549.0	9405.1	9108.2	8557.3	7786.1	7174.0	7161.7	7226.0	7452.5	7008.7
40°	10476.3	10516.1	10357.0	10106.0	9579.6	8927.7	8159.5	8049.3	7985.0	8251.3	7841.2
42.5°	11437.3	11498.5	11443.5	11192.5	10742.6	10203.9	9438.8	9267.4	9129.7	9463.3	9028.7
45°	12631.0	12704.4	12679.9	12487.1	12138.2	11700.5	10978.3	10779.3	10715.0	11024.2	10506.9
47.5°	13778.7	13858.2	13947.0	13904.2	13656.2	13454.3	12652.4	12539.1	12520.8	12851.3	12049.5
50°	14632.6	14706.0	15045.7	15290.6	15458.9	15416.1	14721.3	14553.0	14525.4	14736.6	13677.7
52.5°	15244.7	15315.1	15783.3	16548.5	17166.7	17503.4	16802.5	16765.8	16615.8	16542.4	15201.8
55°	15719.1	15817.0	16309.8	17466.7	18712.3	19459.1	19021.4	18889.8	18504.2	18081.8	16615.8
57.5°	15813.9	15853.7	16548.5	18109.4	19912.0	21121.0	21121.0	20891.4	20147.7	19563.1	18250.2
60°	14963.1	15085.5	16025.1	18057.3	20426.2	22207.5	22862.4	22703.3	21699.4	20980.2	19823.3
62.5°	13074.7	13212.5	14357.1	16811.7	19912.0	22430.9	24181.5	24157.1	23024.6	22152.4	21127.1
65°	10026.4	10127.4	11125.2	14063.3	17739.0	21570.9	25124.2	25191.5	24071.4	22926.7	21577.0
67.5°	5037.7	5108.1	6185.4	9607.1	14060.2	19094.9	25059.9	25359.9	24389.7	22516.6	19860.0
70°	1759.8	1830.2	2338.3	4122.6	8557.3	14580.5	22893.0	23382.7	22519.6	19220.4	14650.9
72.5°	602.9	636.6	970.2	1530.3	3329.9	8643.0	17408.5	18146.1	16600.5	12903.3	8419.6
75°	342.8	364.2	520.3	829.4	1395.6	2843.3	9876.4	10329.4	9677.5	7033.2	3464.6
77.5°	232.6	251.0	324.4	471.3	771.3	915.1	4027.7	5071.4	4422.5	2295.4	884.5
80°	137.7	150.0	198.9	278.5	394.8	355.0	863.1	1147.7	1478.3	685.6	266.3
82.5°	64.3	73.5	128.5	183.6	198.9	150.0	254.0	309.1	416.2	336.7	110.2
85°	0.0	0.0	42.8	76.5	73.5	42.8	70.4	76.5	113.2	168.3	42.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	6.1	9.2	18.4	33.7	18.4
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: P641303

CATALOG NUMBER: GWS-SA5F-750-U-T3-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6	3415.6
2.5°	3427.8	3406.4	3430.9	3418.7	3430.9	3427.8	3403.3	3388.0	3388.0	3360.5	3351.3
5°	3470.7	3449.3	3455.4	3427.8	3421.7	3406.4	3375.8	3363.6	3363.6	3336.0	3326.8
7.5°	3565.6	3531.9	3525.8	3470.7	3446.2	3403.3	3348.3	3326.8	3323.8	3296.2	3287.0
10°	3715.5	3675.7	3648.2	3577.8	3507.4	3421.7	3305.4	3207.5	3152.4	3078.9	3072.8
12.5°	3899.2	3850.2	3807.3	3700.2	3583.9	3391.1	3048.3	2690.2	2469.9	2295.4	2307.7
15°	4104.2	4058.3	3991.0	3828.8	3590.0	3088.1	2371.9	1821.0	1551.7	1407.9	1401.7
17.5°	4327.6	4260.3	4150.1	3929.8	3397.2	2359.7	1542.5	1089.6	948.8	899.8	887.6
20°	4535.8	4453.1	4315.4	3951.2	2840.2	1597.6	964.1	844.7	820.2	804.9	804.9
22.5°	4756.1	4652.1	4447.0	3785.9	2111.8	1022.2	820.2	792.7	774.3	752.9	749.8
25°	4979.5	4844.9	4566.4	3354.4	1383.4	804.9	768.2	737.6	703.9	670.3	661.1
27.5°	5169.3	4994.8	4658.2	2711.7	887.6	725.4	700.9	648.8	602.9	566.2	560.1
30°	5395.8	5172.4	4698.0	1983.2	697.8	639.7	602.9	547.8	492.8	456.0	443.8
32.5°	5698.8	5453.9	4636.8	1291.6	618.2	563.1	505.0	440.7	385.6	345.8	339.7
35°	6170.1	5879.3	4355.2	823.3	560.1	486.6	416.2	348.9	303.0	272.4	266.3
37.5°	6745.5	6476.2	3893.0	618.2	501.9	422.4	339.7	275.5	241.8	220.4	214.2
40°	7599.4	7222.9	3320.7	541.7	443.8	358.1	278.5	226.5	202.0	183.6	177.5
42.5°	8707.3	8104.4	2662.7	492.8	388.7	299.9	226.5	186.7	165.3	153.0	150.0
45°	10001.9	8964.4	1967.9	443.8	336.7	247.9	186.7	153.0	137.7	128.5	125.5
47.5°	11327.2	9717.3	1358.9	391.8	287.7	205.1	156.1	131.6	119.4	107.1	104.1
50°	12741.1	10353.9	927.4	339.7	244.8	168.3	134.7	119.4	104.1	94.9	91.8
52.5°	13778.7	10589.6	645.8	293.8	208.1	143.8	119.4	107.1	94.9	82.6	79.6
55°	14736.6	10583.4	489.7	247.9	177.5	125.5	107.1	94.9	82.6	73.5	70.4
57.5°	15691.5	10500.8	385.6	211.2	153.0	113.2	94.9	82.6	76.5	64.3	61.2
60°	16309.8	10188.6	299.9	177.5	131.6	97.9	82.6	73.5	64.3	55.1	52.0
62.5°	16637.2	9754.0	229.5	140.8	107.1	85.7	73.5	64.3	55.1	45.9	42.8
65°	16193.5	8982.8	180.6	110.2	82.6	73.5	61.2	52.0	42.8	33.7	30.6
67.5°	14225.5	7574.9	140.8	88.8	64.3	55.1	52.0	42.8	30.6	24.5	21.4
70°	10054.0	5187.7	110.2	67.3	49.0	42.8	39.8	33.7	24.5	18.4	15.3
72.5°	5518.2	2616.8	79.6	49.0	36.7	33.7	30.6	27.5	21.4	15.3	15.3
75°	2124.0	719.2	58.2	33.7	24.5	24.5	21.4	21.4	18.4	12.2	12.2
77.5°	554.0	214.2	36.7	21.4	15.3	15.3	15.3	12.2	12.2	9.2	9.2
80°	177.5	70.4	21.4	15.3	12.2	9.2	9.2	6.1	9.2	6.1	6.1
82.5°	58.2	24.5	12.2	12.2	9.2	6.1	6.1	3.1	3.1	0.0	0.0
85°	21.4	12.2	9.2	6.1	6.1	6.1	3.1	0.0	0.0	0.0	0.0
87.5°	12.2	6.1	6.1	6.1	6.1	3.1	0.0	0.0	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)