

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: P636507

Luminaire Tested: GWS-SA3F-830-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636507  
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-SA3F-830-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

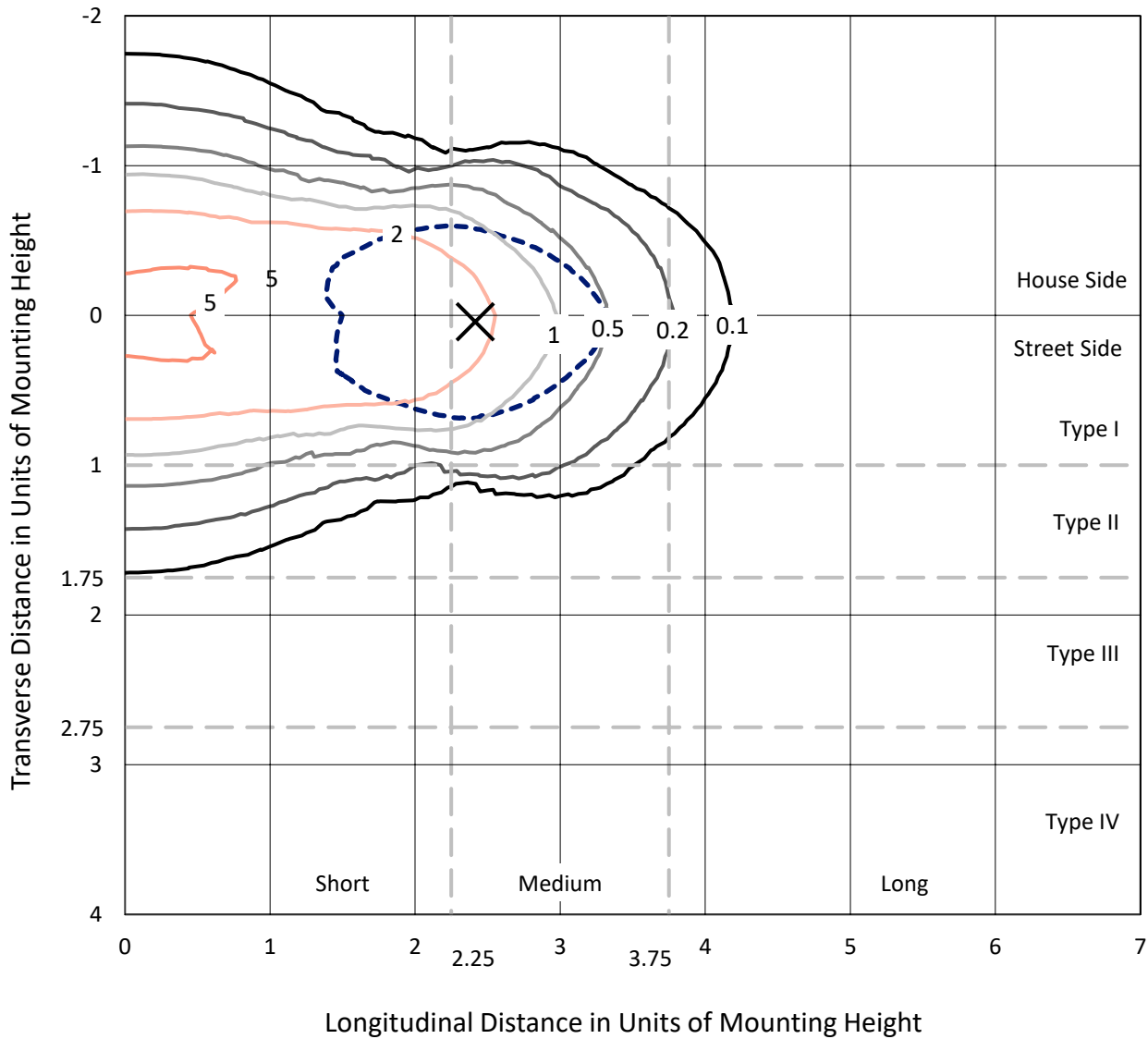
Lumens per Lamp: N/A  
Luminaire Lumens: 19387.8 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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: P636507  
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### Iso-Footcandle Lines of Horizontal Illumination

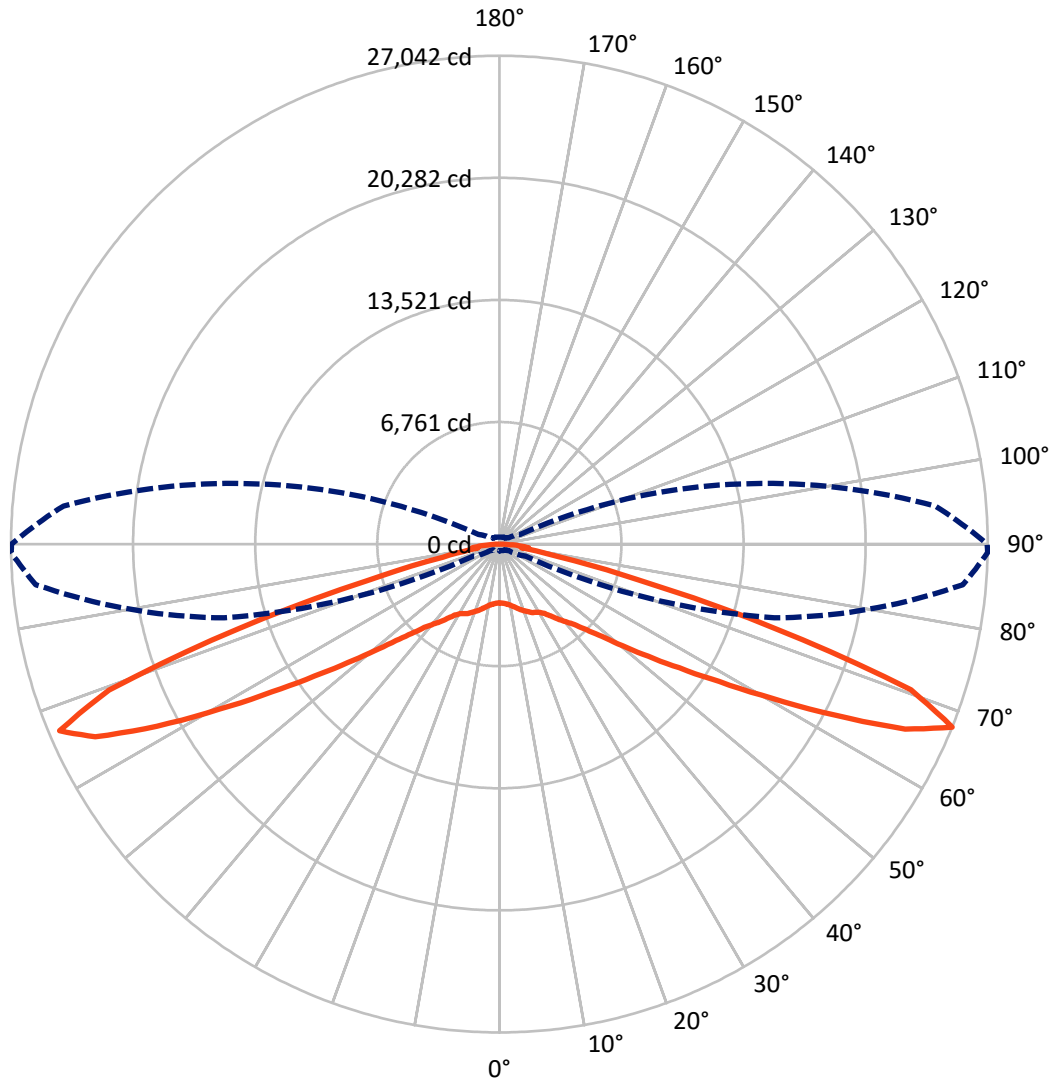
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type I - Medium - N/A

REPORT NUMBER: P636507  
CATALOG NUMBER: GWS-SA3F-830-U-T1-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P636507

CATALOG NUMBER: GWS-SA3F-830-U-T1-W

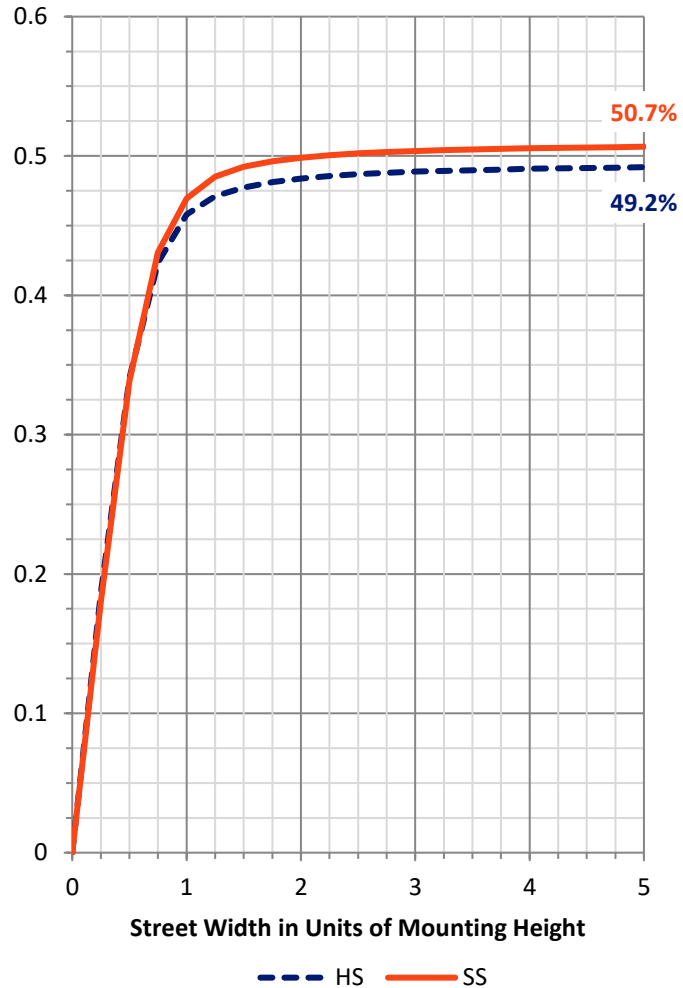
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9608.9	0.0	9608.9
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9778.9	0.0	9778.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	19387.8	0.0	19387.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.4	1.7
10°-20°	1062.8	5.5
20°-30°	1796.7	9.3
30°-40°	2465.7	12.7
40°-50°	3144.3	16.2
50°-60°	3945.0	20.3
60°-70°	4758.1	24.5
70°-80°	1721.3	8.9
80°-90°	167.4	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°	19387.8	100.0
0°-180°	19387.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P636507

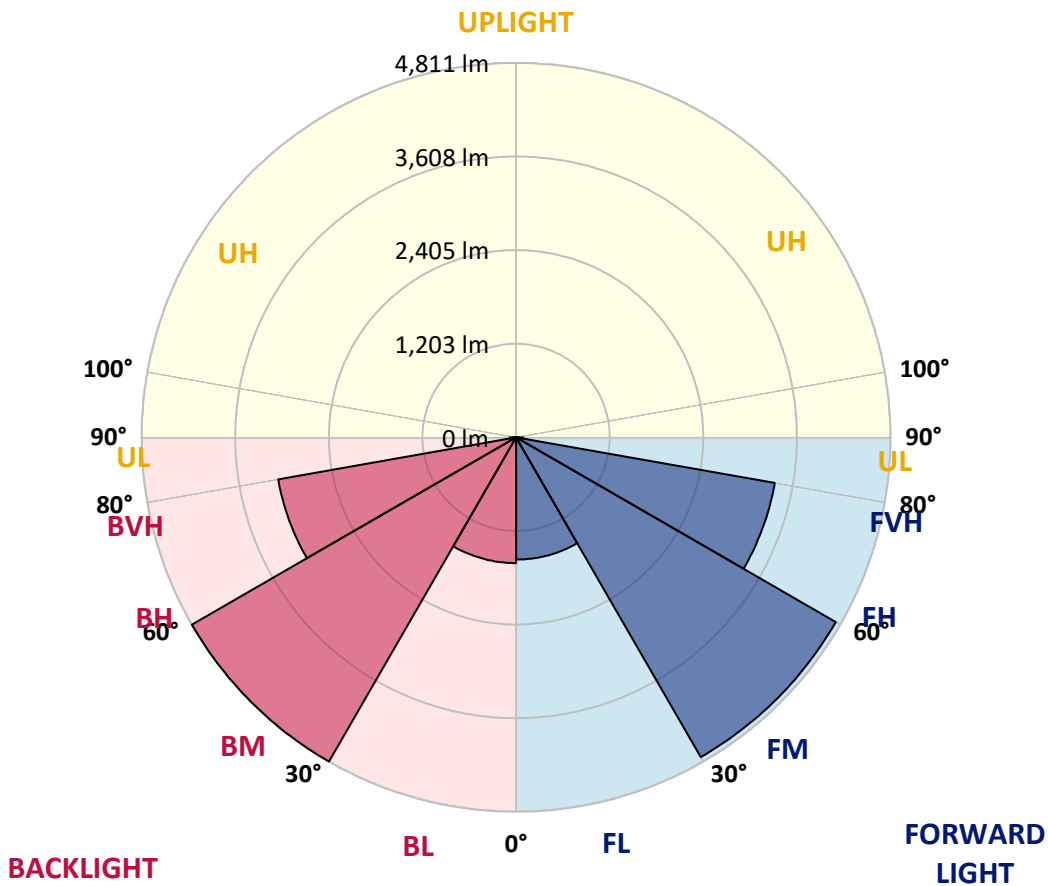
CATALOG NUMBER: GWS-SA3F-830-U-T1-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.3	8.1			
FM (30°-60°)	4744.6	24.5			
FH (60°-80°)	3375.7	17.4			G2/5000
FVH (80°-90°)	88.3	0.5			G1/100
BL (0°-30°)	1615.7	8.3	B3/2500		
BM (30°-60°)	4810.5	24.8	B3/5000		
BH (60°-80°)	3103.7	16.0	B4/5000		G4/5000
BVH (80°-90°)	79.1	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: P636507  
 CATALOG NUMBER: GWS-SA3F-830-U-T1-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1
2.5°	3263.8	3261.0	3254.1	3275.0	3270.8	3272.2	3280.5	3275.0	3265.2	3248.5	3272.2
5°	3355.7	3354.3	3339.0	3351.6	3337.6	3327.9	3326.5	3312.6	3301.4	3283.3	3308.4
7.5°	3444.8	3443.5	3430.9	3453.2	3442.1	3430.9	3418.4	3390.5	3364.1	3337.6	3365.5
10°	3513.1	3511.7	3508.9	3540.9	3543.7	3547.9	3542.3	3495.0	3449.0	3417.0	3444.8
12.5°	3552.1	3556.2	3563.2	3621.7	3650.9	3678.8	3685.7	3646.7	3570.2	3524.2	3557.6
15°	3525.6	3534.0	3568.8	3674.6	3755.4	3818.0	3844.5	3812.4	3713.6	3637.0	3674.6
17.5°	3398.9	3405.9	3474.1	3635.6	3813.8	3958.7	4001.8	3982.3	3872.3	3779.0	3815.2
20°	3223.5	3238.8	3312.6	3538.1	3804.1	4056.1	4171.7	4164.7	4045.0	3901.6	3944.7
22.5°	3064.7	3082.8	3160.8	3410.0	3738.6	4081.2	4343.0	4361.1	4202.3	4024.1	4058.9
25°	2886.5	2903.2	3003.5	3258.3	3625.9	4061.7	4489.2	4571.3	4380.6	4164.7	4196.8
27.5°	2704.1	2716.6	2815.5	3087.0	3478.3	4025.5	4604.7	4802.5	4556.0	4262.2	4284.5
30°	2544.0	2560.7	2651.2	2915.7	3316.7	3953.1	4699.4	5048.9	4757.9	4372.2	4390.3
32.5°	2389.4	2403.3	2502.2	2747.2	3145.5	3841.7	4784.4	5338.5	5057.3	4576.9	4576.9
35°	2194.5	2219.5	2330.9	2585.7	2984.0	3694.1	4845.6	5675.5	5466.6	4879.0	4880.4
37.5°	2014.8	2028.8	2145.7	2403.3	2814.1	3527.0	4851.2	6025.0	5984.6	5263.3	5266.1
40°	1810.1	1828.2	1953.6	2208.4	2619.1	3351.6	4798.3	6350.8	6527.7	5658.8	5643.5
42.5°	1602.7	1629.1	1748.9	1998.1	2408.9	3137.1	4657.6	6661.3	7216.9	6116.9	6079.3
45°	1402.2	1418.9	1538.6	1773.9	2168.0	2880.9	4432.1	6959.3	8035.7	6813.1	6758.8
47.5°	1176.6	1183.6	1307.5	1533.1	1918.8	2595.5	4109.0	7225.3	8935.2	7734.9	7641.6
50°	976.1	985.8	1083.3	1276.8	1613.8	2257.1	3706.6	7381.2	10081.1	8992.2	8830.7
52.5°	789.5	799.2	877.2	1031.8	1333.9	1871.4	3208.1	7345.0	11243.8	10553.2	10317.8
55°	637.7	644.7	697.6	818.7	1049.9	1488.5	2619.1	7020.6	12534.6	12591.7	12084.8
57.5°	538.9	541.7	577.9	651.7	820.1	1147.4	2021.8	6254.8	13888.0	15192.7	14360.0
60°	481.8	483.2	499.9	545.8	647.5	875.8	1481.5	5035.0	15290.2	18446.8	17305.0
62.5°	445.6	445.6	459.5	486.0	537.5	673.9	1088.9	3616.1	16296.9	21987.7	20852.9
65°	410.8	410.8	420.5	442.8	470.6	550.0	817.4	2332.3	16791.2	24948.0	24696.0
67.5°	366.2	367.6	374.6	398.2	423.3	459.5	619.6	1577.6	15765.0	25766.7	27042.2
70°	324.4	325.8	335.6	350.9	371.8	396.8	484.6	1087.5	11474.9	21460.0	24179.4
72.5°	278.5	284.1	291.0	307.7	320.3	338.4	395.4	704.6	6676.7	13804.5	15983.6
75°	228.4	235.3	243.7	260.4	268.7	275.7	325.8	502.7	3212.3	6995.5	7966.0
77.5°	176.8	183.8	193.5	208.9	214.4	222.8	249.2	363.4	1538.6	3100.9	3343.2
80°	118.4	121.1	129.5	147.6	157.3	162.9	183.8	247.9	668.4	1244.8	1233.7
82.5°	72.4	73.8	76.6	87.7	91.9	97.5	119.7	151.8	318.9	1414.7	1622.2
85°	26.5	25.1	23.7	30.6	36.2	41.8	55.7	76.6	139.2	971.9	1087.5
87.5°	0.0	0.0	0.0	1.4	2.8	2.8	5.6	11.1	33.4	363.4	249.2
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: P636507  
 CATALOG NUMBER: GWS-SA3F-830-U-T1-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1
2.5°	3265.2	3249.9	3269.4	3283.3	3314.0	3325.1	3327.9	3318.1	3318.1	3301.4	3304.2
5°	3302.8	3293.1	3325.1	3348.8	3393.3	3410.0	3421.2	3414.2	3418.4	3407.3	3410.0
7.5°	3359.9	3351.6	3407.3	3453.2	3499.2	3518.6	3528.4	3522.8	3524.2	3510.3	3514.5
10°	3439.3	3442.1	3508.9	3568.8	3630.0	3649.5	3653.7	3637.0	3623.1	3598.0	3599.4
12.5°	3547.9	3561.8	3656.5	3723.3	3786.0	3813.8	3783.2	3721.9	3664.9	3621.7	3616.1
15°	3666.2	3691.3	3827.8	3912.7	3980.9	3967.0	3876.5	3738.6	3625.9	3561.8	3549.3
17.5°	3808.3	3845.9	4017.1	4118.8	4177.3	4088.1	3898.8	3692.7	3535.4	3449.0	3432.3
20°	3941.9	4001.8	4217.6	4349.9	4356.9	4156.4	3889.0	3599.4	3401.7	3295.9	3273.6
22.5°	4064.5	4141.1	4427.9	4596.4	4505.9	4187.0	3829.2	3467.1	3240.2	3116.2	3096.7
25°	4198.1	4306.8	4673.0	4830.3	4654.9	4174.5	3703.8	3302.8	3045.2	2918.5	2904.6
27.5°	4290.0	4426.5	4919.4	5069.8	4777.4	4103.5	3542.3	3123.2	2867.0	2747.2	2727.8
30°	4395.9	4569.9	5190.9	5330.2	4852.6	3999.0	3369.7	2956.1	2701.3	2571.8	2557.9
32.5°	4588.0	4806.6	5527.9	5605.9	4876.3	3869.5	3204.0	2794.6	2528.6	2399.1	2379.6
35°	4897.1	5153.3	6001.3	5913.6	4858.2	3727.5	3046.6	2605.2	2351.8	2230.7	2211.2
37.5°	5287.0	5605.9	6529.1	6190.7	4808.0	3571.6	2860.0	2446.5	2193.1	2070.5	2059.4
40°	5650.4	6043.1	7120.8	6430.2	4706.4	3379.4	2680.4	2280.8	2021.8	1892.3	1867.2
42.5°	6105.8	6627.9	7805.9	6637.7	4539.3	3149.7	2478.5	2076.1	1807.4	1690.4	1659.8
45°	6797.8	7446.7	8602.4	6836.8	4290.0	2867.0	2225.1	1826.9	1572.0	1452.3	1428.6
47.5°	7661.1	8470.1	9465.7	6955.1	3911.3	2569.0	1938.2	1563.7	1308.9	1173.8	1162.7
50°	8873.9	9958.6	10391.6	6934.3	3488.0	2215.3	1615.2	1250.4	1037.4	939.9	924.6
52.5°	10351.3	11827.2	11392.8	6683.6	3038.3	1812.9	1258.7	981.7	822.9	753.3	740.8
55°	12204.6	14064.8	12446.8	6146.1	2470.2	1388.2	988.6	774.2	665.6	623.8	618.2
57.5°	14499.3	16962.5	13461.9	5241.1	1857.5	1059.6	761.7	639.1	587.6	562.5	561.1
60°	17527.8	20038.3	14343.3	4072.8	1329.8	810.4	629.4	570.9	530.5	513.8	512.4
62.5°	21128.6	22831.5	14891.9	2773.7	999.8	646.1	554.2	518.0	494.3	484.6	483.2
65°	24829.6	24597.1	14630.2	1817.1	758.9	548.6	497.1	477.6	456.7	447.0	447.0
67.5°	27015.7	24223.9	12620.9	1261.5	601.5	481.8	448.4	430.3	395.4	387.1	387.1
70°	23928.7	19628.9	8272.4	923.2	487.3	421.9	389.9	364.8	350.9	342.5	341.1
72.5°	15826.2	12772.7	4398.7	640.5	406.6	359.2	330.0	320.3	303.5	295.2	293.8
75°	7876.9	6708.7	2254.3	462.3	338.4	288.2	275.7	271.5	257.6	246.5	243.7
77.5°	3283.3	2986.7	1051.3	335.6	257.6	232.5	221.4	221.4	206.1	193.5	188.0
80°	1237.9	1102.8	497.1	229.7	190.8	172.7	165.7	160.1	147.6	132.3	123.9
82.5°	1655.6	1081.9	243.7	143.4	125.3	111.4	101.6	97.5	90.5	83.5	78.0
85°	1072.2	768.6	110.0	73.8	62.7	47.3	41.8	39.0	34.8	30.6	27.8
87.5°	218.6	257.6	33.4	13.9	8.4	4.2	4.2	1.4	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)