

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: P638331

Luminaire Tested: GWS-SA4E-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19330.6 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

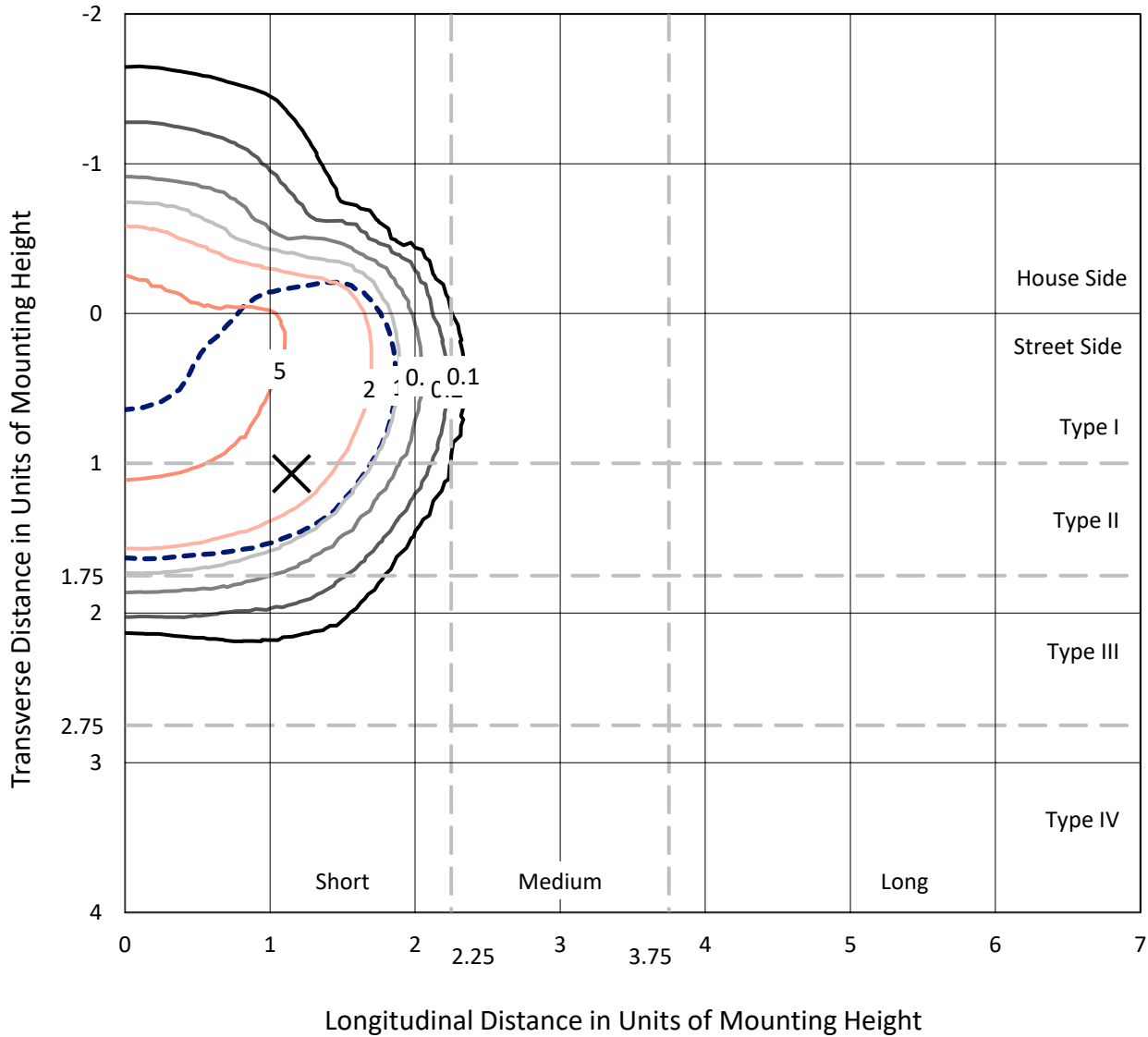
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

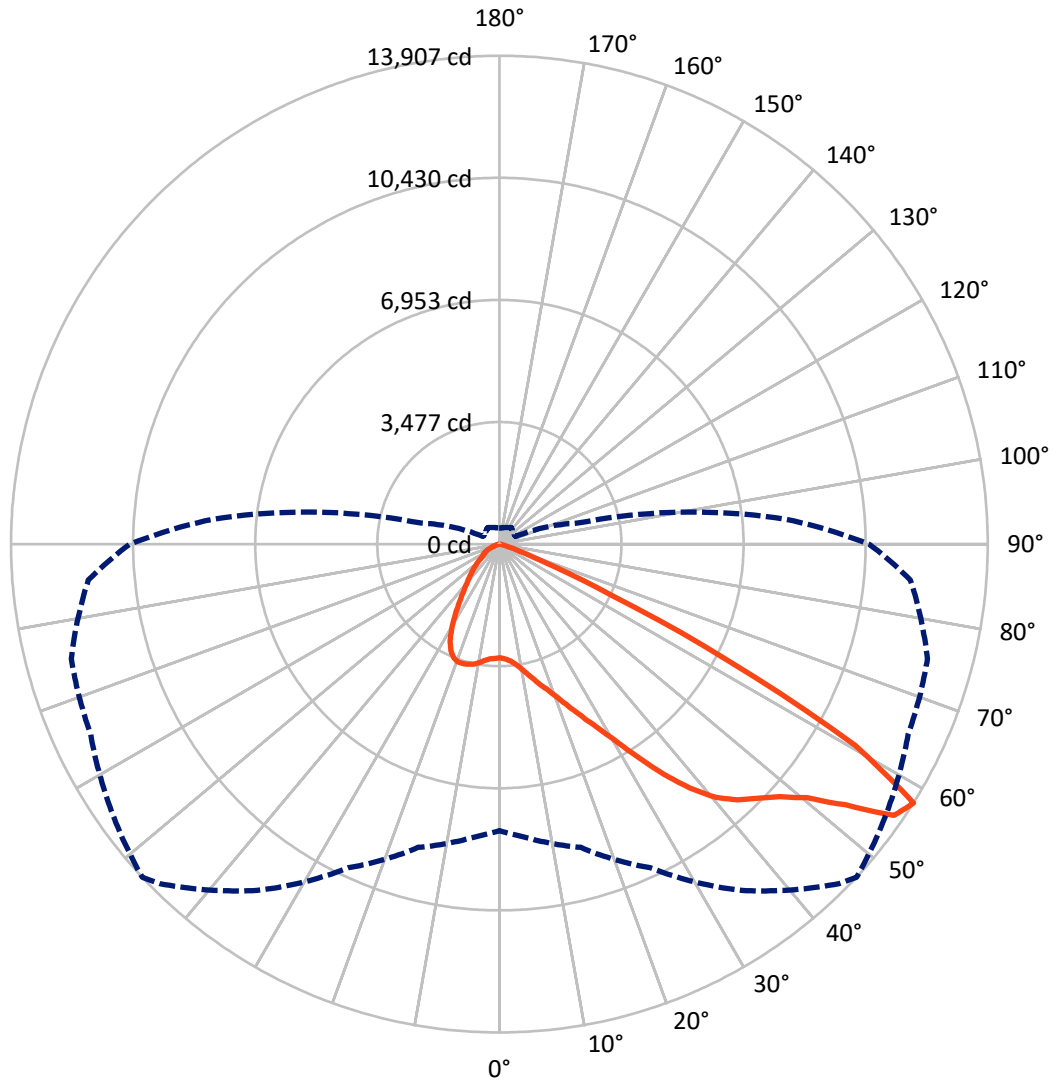
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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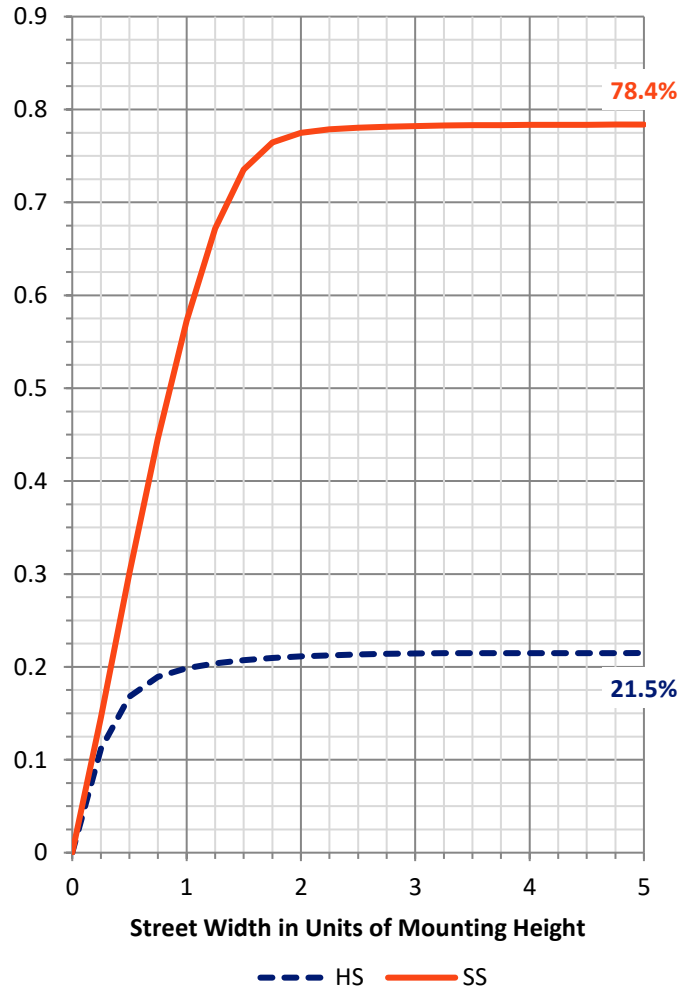
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4193.7	0.0	4193.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15136.8	0.0	15136.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	19330.6	0.0	19330.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	1.7
10°-20°	1086.3	5.6
20°-30°	2017.0	10.4
30°-40°	3228.9	16.7
40°-50°	4719.8	24.4
50°-60°	5825.1	30.1
60°-70°	1946.4	10.1
70°-80°	181.4	0.9
80°-90°	3.7	0.0
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°	19330.6	100.0
0°-180°	19330.6	100.0

Coefficient of Utilization



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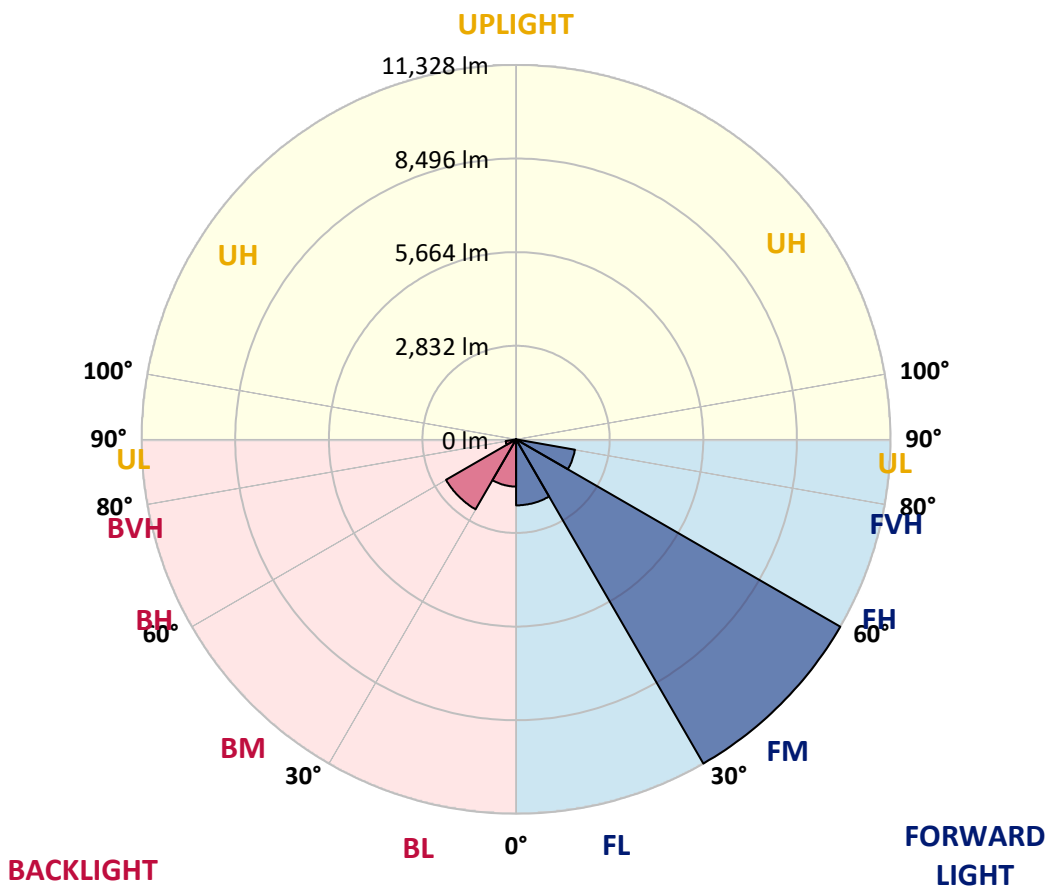
CATALOG NUMBER: GWS-SA4E-750-U-T3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.8	10.3			
FM (30°-60°)	11327.6	58.6			
FH (60°-80°)	1809.0	9.4			G2/5000
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1427.5	7.4	B3/2500		
BM (30°-60°)	2446.2	12.7	B2/2500		
BH (60°-80°)	318.8	1.6	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0
2.5°	3269.6	3267.4	3265.1	3278.6	3274.1	3271.9	3276.4	3276.4	3276.4	3262.9	3236.0
5°	3348.2	3348.2	3345.9	3359.4	3348.2	3341.4	3343.7	3343.7	3334.7	3310.0	3276.4
7.5°	3471.6	3467.1	3462.6	3476.1	3464.9	3462.6	3467.1	3453.6	3437.9	3397.5	3350.4
10°	3648.9	3648.9	3642.1	3655.6	3646.6	3642.1	3642.1	3633.2	3604.0	3541.2	3471.6
12.5°	3893.5	3882.3	3866.5	3855.3	3850.8	3848.6	3850.8	3837.4	3806.0	3725.2	3628.7
15°	4160.5	4151.5	4126.9	4108.9	4084.2	4079.7	4093.2	4082.0	4050.6	3940.6	3803.7
17.5°	4497.1	4508.4	4445.5	4407.4	4335.6	4331.1	4335.6	4353.5	4331.1	4189.7	3990.0
20°	4784.4	4793.4	4746.2	4719.3	4654.2	4625.0	4634.0	4663.2	4638.5	4472.5	4194.2
22.5°	5091.8	5103.0	5053.7	4997.6	4968.4	4968.4	5002.1	5042.4	5008.8	4791.1	4427.6
25°	5459.8	5468.8	5428.4	5354.4	5302.8	5367.8	5417.2	5524.9	5468.8	5172.6	4703.6
27.5°	5881.7	5884.0	5825.6	5749.3	5722.4	5843.6	5893.0	6059.0	6036.6	5601.2	4995.3
30°	6332.8	6335.0	6321.6	6270.0	6245.3	6404.6	6471.9	6712.0	6696.3	6133.1	5392.5
32.5°	6801.8	6801.8	6826.5	6822.0	6851.2	7111.5	7219.2	7493.0	7477.3	6783.9	5886.2
35°	7273.1	7275.3	7317.9	7425.7	7546.8	7892.4	8033.8	8365.9	8330.0	7562.5	6516.8
37.5°	7809.4	7787.0	7845.3	8006.9	8276.2	8675.6	8810.3	9126.7	9086.3	8359.2	7340.4
40°	8455.7	8415.3	8415.3	8603.8	8909.0	9369.0	9483.5	9640.6	9503.7	9003.2	8148.3
42.5°	9169.3	9131.2	9081.8	9247.9	9503.7	9862.7	9957.0	9914.3	9802.1	9611.4	9068.3
45°	9891.9	9833.6	9867.2	9968.2	10116.3	10286.9	10322.8	10125.3	10073.7	10127.5	9829.1
47.5°	10441.7	10401.3	10484.3	10625.7	10746.9	10771.6	10746.9	10473.1	10468.6	10659.4	10356.4
50°	10625.7	10630.2	10859.1	11168.8	11364.0	11384.2	11350.6	11036.4	10993.7	11049.8	10641.4
52.5°	10643.7	10661.6	10996.0	11586.2	12118.0	12360.4	12333.5	11994.6	11577.2	11516.6	11072.3
55°	10210.6	10316.0	10782.8	11644.5	12775.5	13549.8	13639.5	12991.0	12371.6	12320.0	11999.1
57.5°	8161.7	8377.2	8940.4	10167.9	12041.7	13673.2	13906.6	13439.8	12840.6	12620.7	11750.0
60°	4878.6	5145.7	5686.5	7192.3	9164.8	11238.4	11640.0	11705.1	11429.1	10794.0	9014.5
62.5°	2093.7	2071.3	2737.8	3891.2	5450.9	7142.9	7324.7	7607.4	7847.5	7183.3	5471.1
65°	718.1	780.9	1086.1	1754.9	2728.8	3316.8	3478.3	3731.9	4073.0	3361.6	2004.0
67.5°	444.3	471.3	626.1	1036.8	1472.1	1449.7	1377.9	1337.5	1301.6	890.9	549.8
70°	323.1	345.6	439.8	713.6	989.6	695.7	603.7	489.2	543.1	500.4	390.5
72.5°	217.7	235.6	303.0	433.1	507.2	338.9	314.2	356.8	430.9	410.7	318.7
75°	130.2	141.4	172.8	210.9	206.5	175.0	177.3	251.3	329.9	307.4	226.7
77.5°	89.8	94.3	114.4	136.9	101.0	53.9	49.4	69.6	112.2	112.2	76.3
80°	22.4	29.2	29.2	18.0	15.7	13.5	13.5	20.2	31.4	22.4	11.2
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	4.5	4.5
85°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	4.5
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0
2.5°	3251.7	3224.7	3242.7	3238.2	3251.7	3256.2	3236.0	3231.5	3233.7	3206.8	3197.8
5°	3283.1	3251.7	3260.6	3251.7	3267.4	3280.8	3274.1	3283.1	3294.3	3274.1	3265.1
7.5°	3350.4	3319.0	3316.8	3303.3	3325.7	3334.7	3332.5	3357.1	3379.6	3366.1	3352.7
10°	3467.1	3424.5	3420.0	3408.8	3415.5	3422.2	3397.5	3402.0	3422.2	3406.5	3399.8
12.5°	3610.7	3559.1	3547.9	3521.0	3521.0	3487.3	3433.4	3422.2	3437.9	3426.7	3415.5
15°	3765.6	3696.0	3678.0	3630.9	3586.0	3523.2	3467.1	3453.6	3464.9	3451.4	3442.4
17.5°	3938.4	3859.8	3801.5	3718.4	3619.7	3545.6	3482.8	3453.6	3435.7	3408.8	3406.5
20°	4108.9	4005.7	3906.9	3774.5	3644.4	3532.2	3429.0	3352.7	3287.6	3247.2	3231.5
22.5°	4306.4	4153.8	3994.5	3808.2	3621.9	3451.4	3269.6	3139.5	3027.3	2989.1	2971.2
25°	4517.3	4319.9	4082.0	3839.6	3545.6	3271.9	3025.0	2832.0	2683.9	2634.5	2614.4
27.5°	4750.7	4479.2	4171.7	3832.9	3388.6	3016.0	2688.4	2448.3	2302.4	2257.5	2273.3
30°	5046.9	4685.6	4283.9	3763.3	3152.9	2657.0	2273.3	2071.3	1961.3	1918.7	1920.9
32.5°	5441.9	4981.9	4447.8	3615.2	2850.0	2248.6	1912.0	1763.8	1689.8	1633.7	1629.2
35°	6007.4	5432.9	4600.4	3377.3	2482.0	1885.0	1640.4	1523.7	1420.5	1355.4	1366.6
37.5°	6685.1	6000.7	4683.4	3056.4	2069.0	1602.3	1436.2	1317.3	1200.6	1104.1	1115.3
40°	7488.5	6743.5	4676.7	2634.5	1692.0	1409.3	1265.7	1126.5	980.7	893.1	902.1
42.5°	8383.9	7445.9	4530.8	2188.0	1402.5	1252.2	1101.8	926.8	785.4	731.6	733.8
45°	9160.3	8015.9	4275.0	1725.7	1180.4	1099.6	931.3	751.8	688.9	650.8	648.5
47.5°	9734.8	8433.3	3909.2	1357.7	1000.9	960.5	765.2	673.2	623.9	592.4	587.9
50°	10055.7	8579.1	3505.3	1063.7	846.0	814.6	684.4	610.4	576.7	556.5	552.0
52.5°	10486.6	8754.2	3215.8	839.3	709.1	666.5	630.6	567.8	545.3	529.6	522.9
55°	11168.8	9093.0	2964.4	666.5	590.2	581.2	594.7	543.1	529.6	504.9	495.9
57.5°	10527.0	8168.5	2302.4	516.1	498.2	531.8	574.5	518.4	484.7	462.3	453.3
60°	7407.7	5430.7	1157.9	415.2	444.3	498.2	540.8	469.0	435.4	439.8	435.4
62.5°	4084.2	2717.6	520.6	347.8	386.0	439.8	462.3	406.2	383.7	421.9	428.6
65°	1335.2	924.6	300.7	269.3	305.2	359.1	399.4	386.0	381.5	426.4	439.8
67.5°	410.7	305.2	204.2	193.0	210.9	264.8	336.6	417.4	448.8	462.3	469.0
70°	307.4	240.1	175.0	163.8	172.8	202.0	285.0	347.8	327.6	329.9	325.4
72.5°	246.8	190.7	150.4	143.6	143.6	139.1	150.4	188.5	213.2	224.4	224.4
75°	172.8	134.6	114.4	105.5	83.0	67.3	60.6	60.6	53.9	51.6	49.4
77.5°	58.3	49.4	44.9	35.9	24.7	20.2	18.0	15.7	11.2	6.7	4.5
80°	9.0	6.7	4.5	4.5	4.5	2.2	2.2	2.2	0.0	0.0	0.0
82.5°	4.5	4.5	4.5	4.5	4.5	2.2	2.2	0.0	0.0	0.0	0.0
85°	4.5	4.5	4.5	4.5	4.5	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	2.2	2.2	2.2	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)