

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: P640283

Luminaire Tested: GWS-SA5D-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31633.6 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

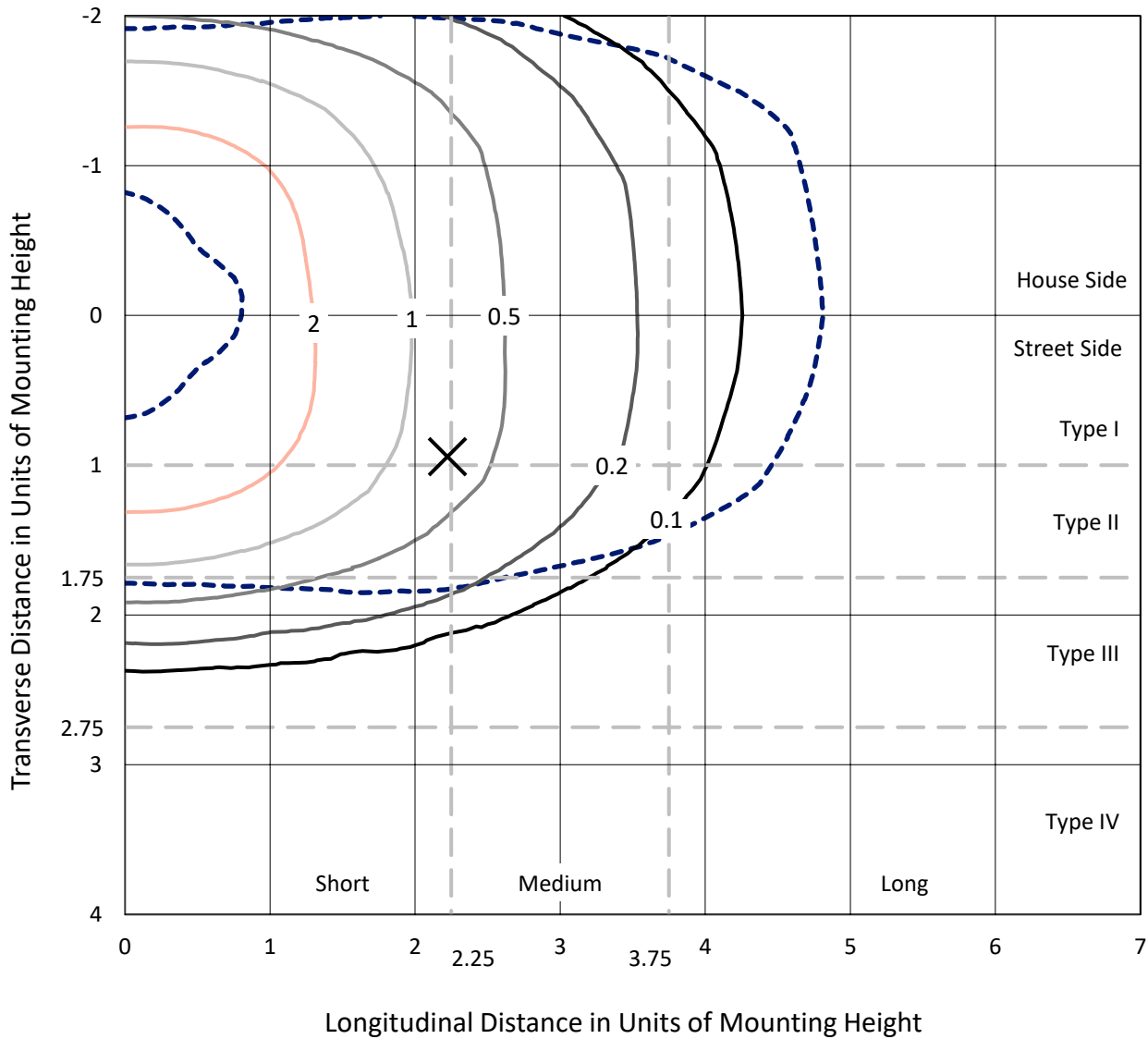
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

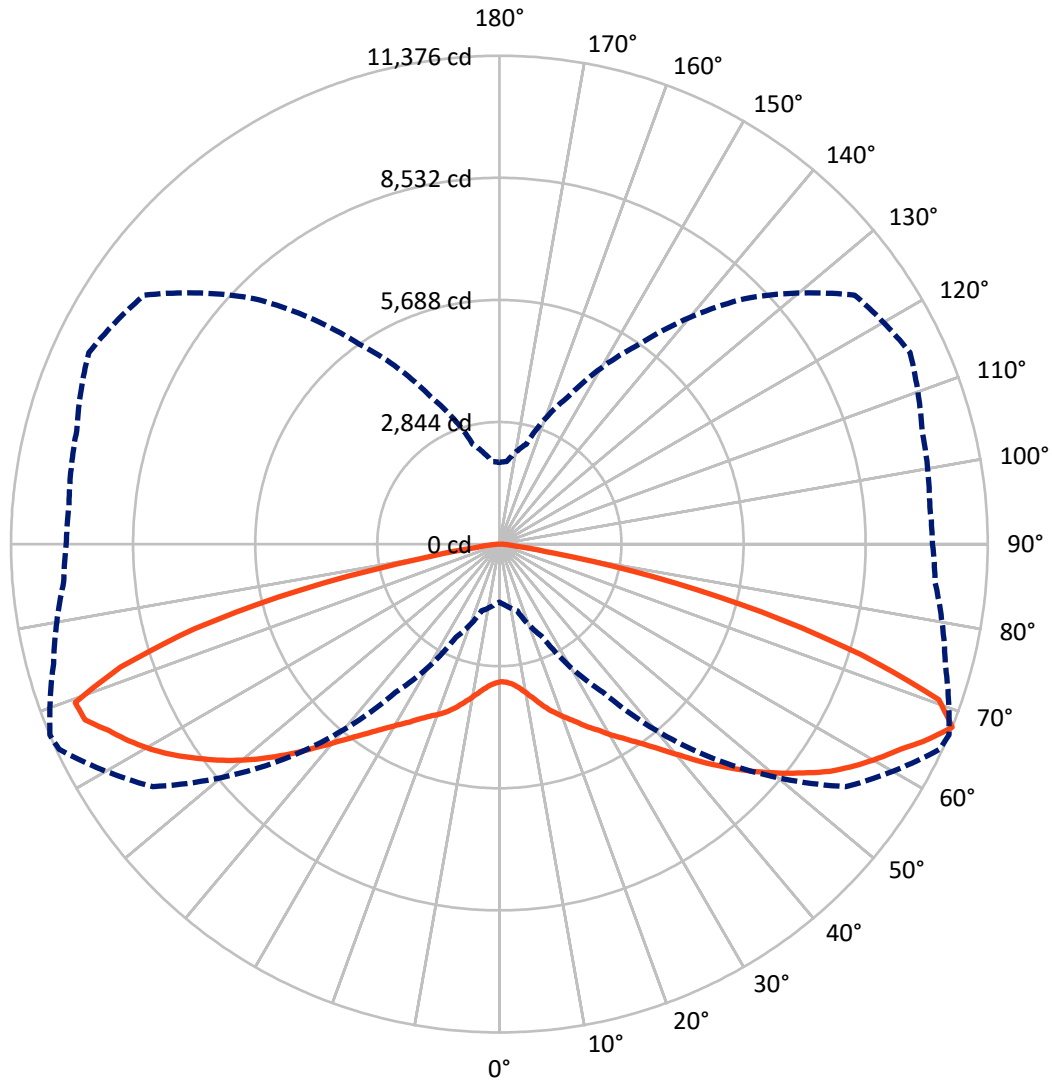
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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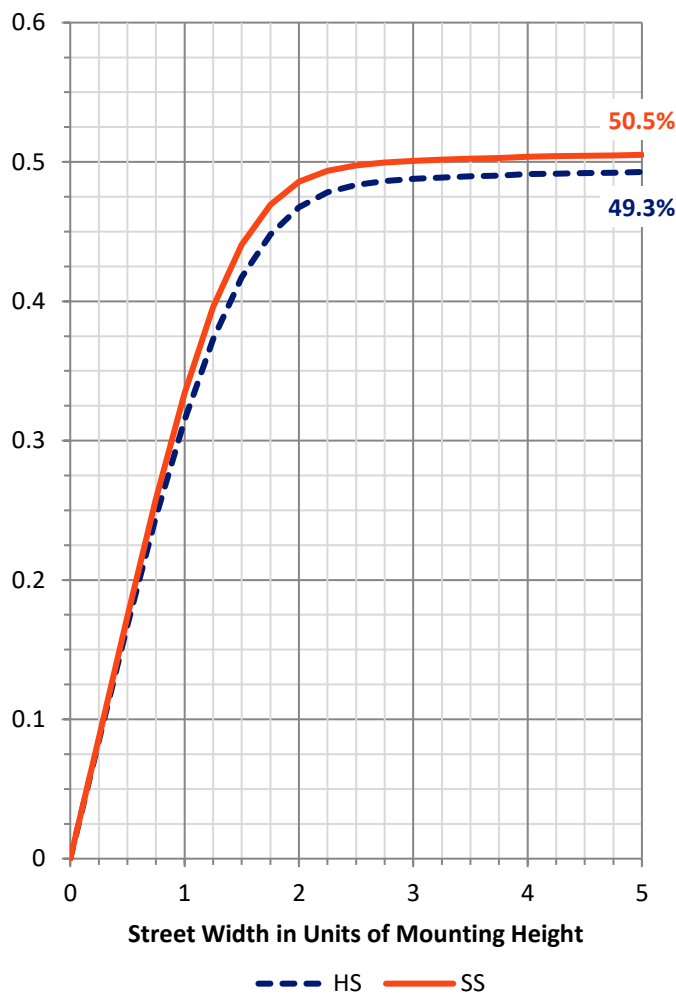
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15642.2	0.0	15642.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	15991.4	0.0	15991.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	31633.6	0.0	31633.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	1.0
10°-20°	1061.7	3.4
20°-30°	2083.0	6.6
30°-40°	3548.8	11.2
40°-50°	5698.7	18.0
50°-60°	7743.3	24.5
60°-70°	7407.0	23.4
70°-80°	3521.6	11.1
80°-90°	255.2	0.8
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°	31633.6	100.0
0°-180°	31633.6	100.0

Coefficient of Utilization



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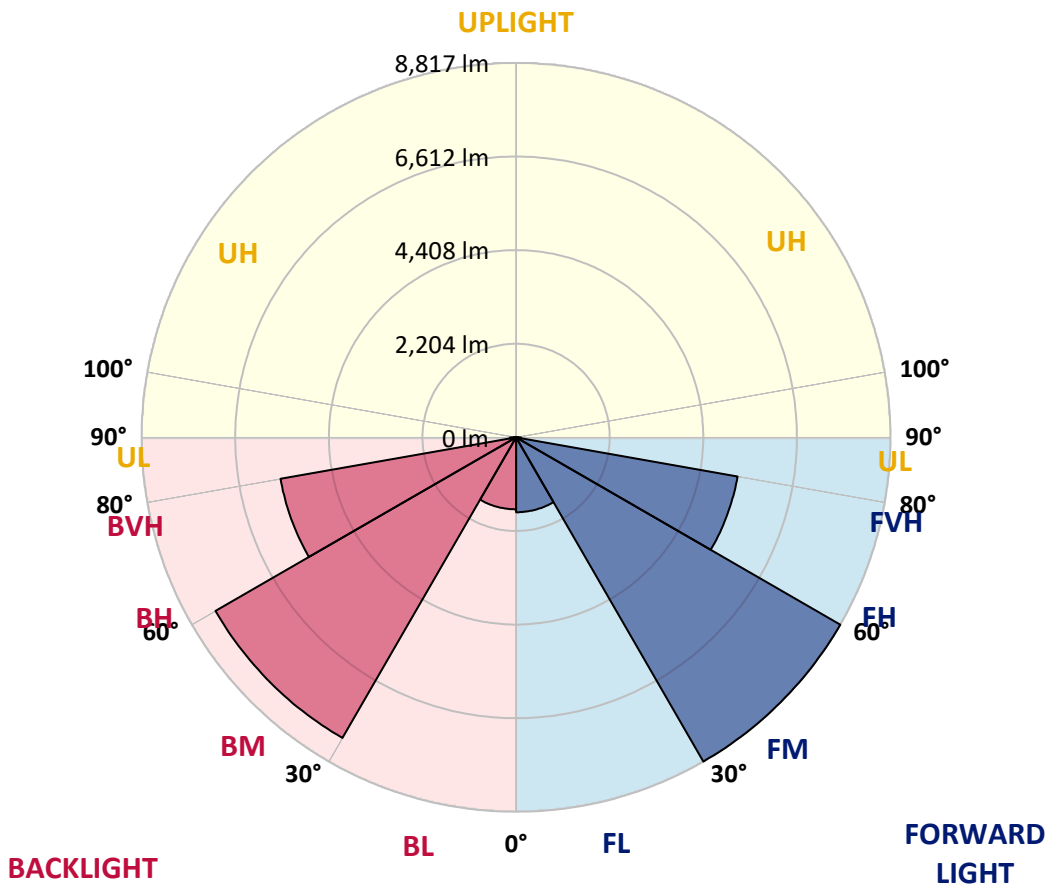
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.8	5.6			
FM (30°-60°)	8816.6	27.9			
FH (60°-80°)	5296.3	16.7			G3/7500
FVH (80°-90°)	114.7	0.4			G2/225
BL (0°-30°)	1695.2	5.4	B3/2500		
BM (30°-60°)	8174.3	25.8	B4/8500		
BH (60°-80°)	5632.3	17.8	B5		G5
BVH (80°-90°)	140.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1
2.5°	3137.0	3141.4	3148.0	3161.2	3174.4	3194.3	3214.1	3211.9	3220.7	3227.3	3233.9
5°	3119.4	3123.8	3134.8	3152.4	3172.2	3205.3	3247.1	3264.8	3278.0	3302.2	3324.2
7.5°	3156.8	3165.6	3181.0	3205.3	3236.1	3278.0	3335.3	3366.1	3385.9	3430.0	3467.4
10°	3207.5	3218.5	3249.3	3295.6	3341.9	3405.7	3478.4	3524.7	3537.9	3595.2	3665.7
12.5°	3255.9	3269.2	3319.8	3403.5	3487.3	3573.2	3659.1	3716.4	3720.8	3797.9	3877.2
15°	3333.1	3344.1	3412.4	3520.3	3648.1	3767.0	3872.8	3912.4	3930.0	3985.1	4084.3
17.5°	3502.7	3515.9	3604.0	3720.8	3855.1	3980.7	4086.5	4119.5	4119.5	4165.8	4247.3
20°	3685.5	3698.7	3815.5	3965.3	4128.3	4256.1	4337.6	4306.8	4295.7	4309.0	4366.2
22.5°	3890.4	3914.6	4027.0	4201.0	4401.5	4557.9	4599.7	4507.2	4476.4	4445.5	4458.8
25°	4152.5	4181.2	4291.3	4476.4	4672.4	4837.7	4861.9	4718.7	4701.1	4593.1	4553.5
27.5°	4454.3	4476.4	4613.0	4795.8	4978.6	5117.4	5143.9	4967.6	4908.2	4758.4	4665.8
30°	4844.3	4864.1	4983.1	5163.7	5322.3	5419.2	5452.3	5210.0	5163.7	4934.6	4791.4
32.5°	5269.4	5278.3	5399.4	5573.4	5714.4	5807.0	5760.7	5478.7	5410.4	5152.7	4956.6
35°	5756.3	5756.3	5912.7	6053.7	6166.0	6192.5	6104.4	5782.7	5703.4	5423.6	5179.1
37.5°	6234.3	6247.5	6392.9	6560.4	6659.5	6655.1	6494.3	6141.8	6051.5	5747.5	5476.5
40°	6752.0	6780.7	6926.1	7113.3	7208.0	7194.8	6948.1	6556.0	6463.4	6104.4	5840.0
42.5°	7227.9	7274.1	7443.7	7635.4	7738.9	7730.1	7472.4	7031.8	6941.5	6536.1	6271.8
45°	7606.8	7655.2	7866.7	8133.3	8298.5	8283.1	8023.1	7525.3	7415.1	6989.9	6699.1
47.5°	7939.4	7990.1	8225.8	8507.8	8769.9	8796.3	8558.4	8023.1	7906.4	7476.8	7148.5
50°	8194.9	8219.2	8483.5	8791.9	9095.9	9243.5	9036.5	8523.2	8382.2	7957.0	7586.9
52.5°	8175.1	8208.2	8534.2	8952.8	9360.3	9602.6	9459.4	8994.6	8858.0	8395.4	8034.1
55°	7772.0	7805.0	8192.7	8803.0	9507.9	9864.8	9849.4	9444.0	9344.9	8842.6	8499.0
57.5°	7183.8	7256.5	7642.0	8300.7	9314.0	10074.1	10135.7	9853.8	9750.2	9281.0	8959.4
60°	6130.8	6227.7	6672.7	7527.5	8692.8	10003.6	10441.9	10199.6	10135.7	9688.5	9375.7
62.5°	4454.3	4524.8	5117.4	6238.7	7772.0	9501.3	10699.7	10556.5	10508.0	10054.2	9752.4
65°	2667.8	2828.6	3304.4	4412.5	6269.6	8554.0	10558.7	11023.5	10972.9	10430.9	10074.1
67.5°	1350.4	1423.1	1610.4	2392.4	4216.4	7078.1	9851.6	11314.3	11376.0	10752.6	10188.6
70°	837.1	856.9	909.8	1180.8	2106.0	4650.4	8056.2	10556.5	10858.3	10701.9	9891.2
72.5°	671.9	676.3	685.1	735.8	1011.2	2174.3	5093.2	8267.6	8811.8	9994.7	9466.0
75°	557.3	559.5	561.8	577.2	630.0	887.8	2478.3	5681.4	6318.0	8494.5	8776.5
77.5°	447.2	436.2	445.0	451.6	464.8	495.7	854.7	3031.2	3676.7	5575.6	6787.3
80°	290.8	286.4	304.0	310.6	323.8	343.7	456.0	1028.8	1249.1	2028.9	2158.9
82.5°	156.4	147.6	185.0	178.4	185.0	200.5	268.8	376.7	423.0	612.4	517.7
85°	48.5	48.5	50.7	59.5	72.7	70.5	116.8	185.0	204.9	262.2	193.9
87.5°	8.8	8.8	8.8	8.8	8.8	11.0	24.2	37.5	50.7	90.3	68.3
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°	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1
2.5°	3247.1	3227.3	3238.3	3244.9	3242.7	3238.3	3216.3	3211.9	3200.9	3183.3	3178.8
5°	3344.1	3322.0	3324.2	3317.6	3295.6	3267.0	3218.5	3194.3	3174.4	3152.4	3150.2
7.5°	3496.1	3471.8	3465.2	3434.4	3372.7	3306.6	3229.5	3185.5	3152.4	3123.8	3119.4
10°	3689.9	3665.7	3643.7	3571.0	3469.6	3381.5	3280.2	3216.3	3167.8	3132.6	3126.0
12.5°	3905.8	3886.0	3830.9	3725.2	3604.0	3500.5	3396.9	3317.6	3247.1	3194.3	3187.7
15°	4145.9	4101.9	4018.2	3881.6	3767.0	3683.3	3557.8	3449.8	3337.5	3267.0	3251.5
17.5°	4313.4	4275.9	4176.8	4044.6	3954.3	3881.6	3734.0	3579.8	3427.8	3324.2	3302.2
20°	4432.3	4392.7	4280.3	4183.4	4154.7	4093.1	3921.2	3742.8	3566.6	3438.8	3410.2
22.5°	4518.2	4476.4	4361.8	4313.4	4353.0	4342.0	4174.6	3971.9	3762.6	3610.6	3575.4
25°	4599.7	4560.1	4458.8	4476.4	4582.1	4615.2	4434.5	4198.8	3960.9	3782.5	3740.6
27.5°	4676.8	4626.2	4579.9	4676.8	4826.6	4888.3	4696.7	4430.1	4172.4	3989.5	3956.5
30°	4795.8	4736.3	4729.7	4870.7	5108.6	5161.5	4950.0	4683.5	4427.9	4242.9	4201.0
32.5°	4945.6	4890.5	4894.9	5106.4	5381.8	5425.8	5245.2	4996.3	4740.7	4555.7	4498.4
35°	5148.3	5080.0	5117.4	5377.4	5655.0	5736.5	5591.1	5384.0	5135.1	4945.6	4881.7
37.5°	5428.1	5328.9	5406.0	5679.2	5959.0	6080.1	5967.8	5813.6	5566.8	5375.2	5315.7
40°	5784.9	5703.4	5734.3	6036.1	6324.6	6470.0	6399.5	6247.5	6003.0	5802.6	5734.3
42.5°	6207.9	6126.4	6115.4	6437.0	6725.6	6945.9	6877.6	6738.8	6485.5	6256.4	6190.3
45°	6622.0	6547.1	6562.6	6890.8	7214.6	7454.8	7386.5	7223.4	6948.1	6683.7	6630.9
47.5°	7053.8	6992.1	7005.4	7353.4	7710.3	7950.4	7864.5	7666.2	7344.6	7062.6	6998.7
50°	7496.6	7426.1	7445.9	7811.6	8197.1	8424.1	8291.9	7998.9	7644.2	7368.8	7313.8
52.5°	7937.2	7853.5	7904.2	8250.0	8648.8	8829.4	8584.9	8230.2	7886.5	7613.4	7551.7
55°	8443.9	8355.8	8300.7	8670.8	9065.1	9140.0	8805.2	8391.0	7983.5	7672.8	7635.4
57.5°	8906.5	8831.6	8728.1	9098.2	9388.9	9333.9	8974.8	8346.9	7747.7	7349.0	7296.1
60°	9320.6	9256.8	9166.4	9481.5	9613.6	9490.3	8838.2	7824.9	7166.2	6749.8	6725.6
62.5°	9701.8	9633.5	9549.8	9818.5	9800.9	9514.5	8217.0	7023.0	6141.8	5694.6	5655.0
65°	10003.6	9941.9	9917.6	10129.1	10100.5	9040.9	7249.9	5710.0	4487.4	3982.9	3967.5
67.5°	10089.5	10065.2	10195.2	10554.3	10107.1	8089.2	5685.8	3786.9	2410.0	1932.0	1903.3
70°	9767.8	9765.6	10137.9	10651.2	9190.7	6179.3	3355.1	1707.3	1211.6	1075.0	1057.4
72.5°	9349.3	9342.7	9637.9	9188.5	6815.9	3381.5	1412.1	914.2	757.8	720.4	720.4
75°	8662.0	8644.3	8866.8	6989.9	3833.1	1273.3	749.0	627.8	594.8	588.2	588.2
77.5°	7060.4	6912.8	6562.6	4320.0	1337.2	625.6	495.7	493.5	473.6	471.4	471.4
80°	2321.9	2321.9	2698.6	1647.8	590.4	385.5	350.3	367.9	348.1	334.8	332.6
82.5°	378.9	522.1	742.4	471.4	319.4	240.1	215.9	229.1	240.1	191.7	191.7
85°	149.8	196.1	286.4	220.3	147.6	96.9	103.5	114.6	101.3	88.1	85.9
87.5°	57.3	70.5	101.3	52.9	30.8	17.6	11.0	11.0	8.8	8.8	8.8
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)