

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: P637207

Luminaire Tested: GWS-SA4C-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18814.1 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

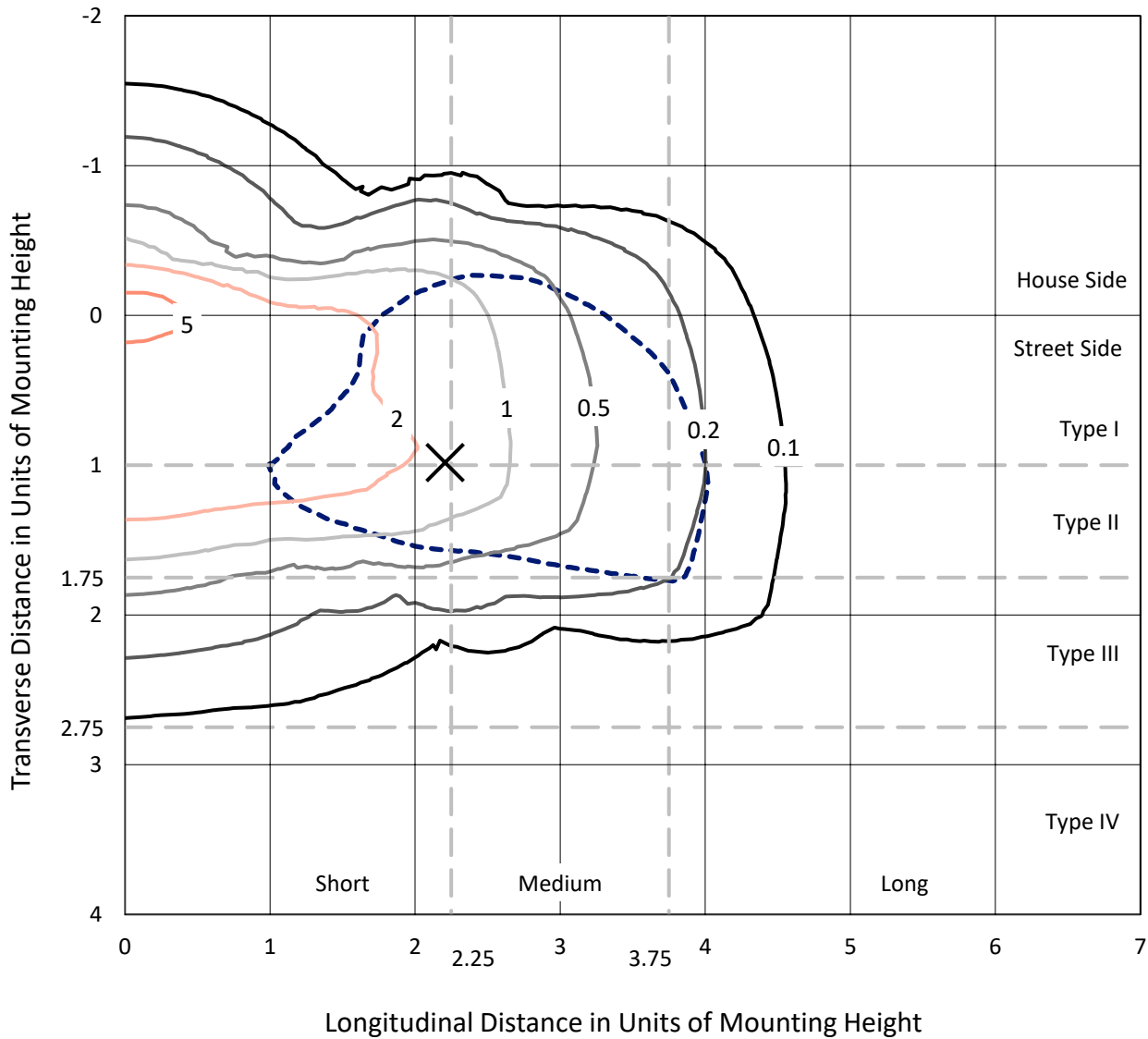
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

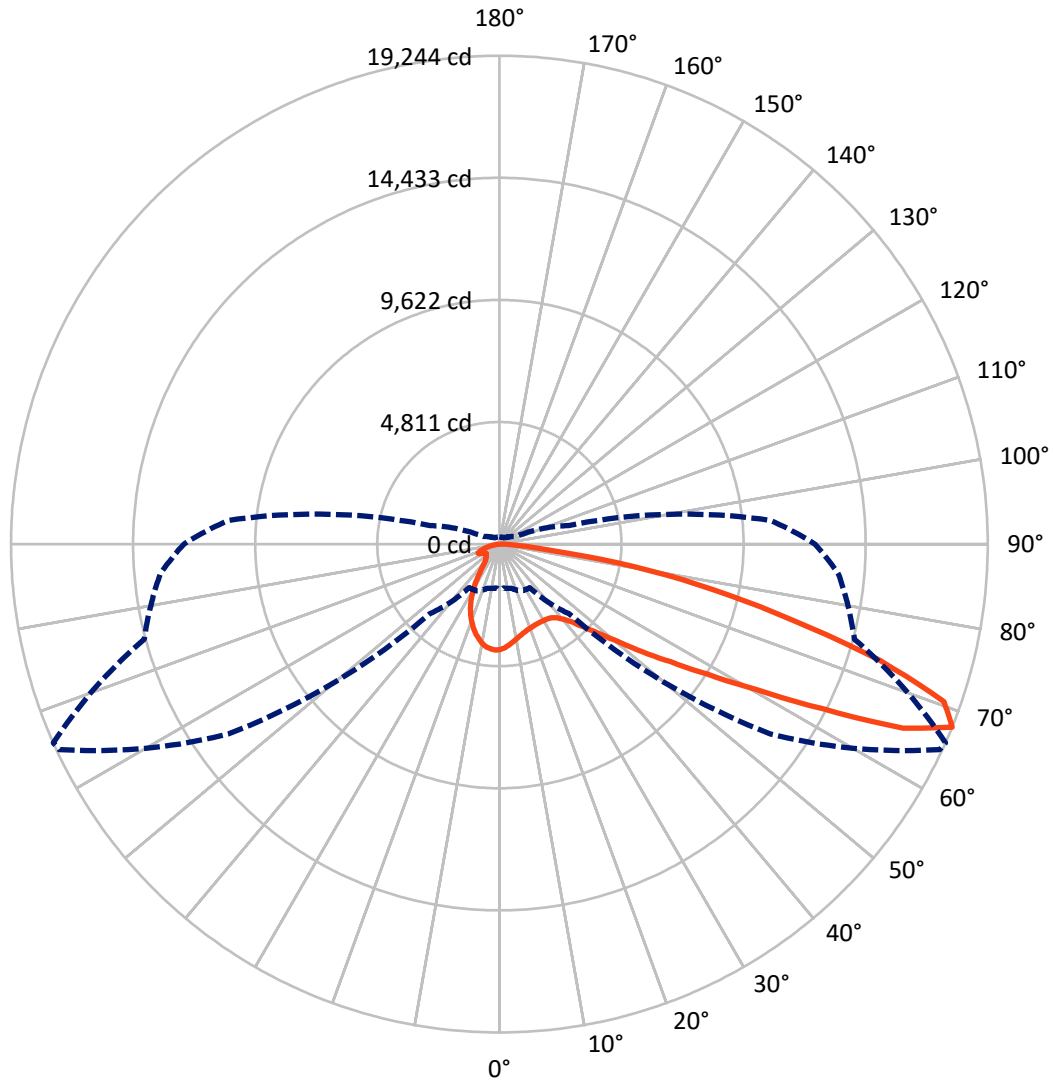
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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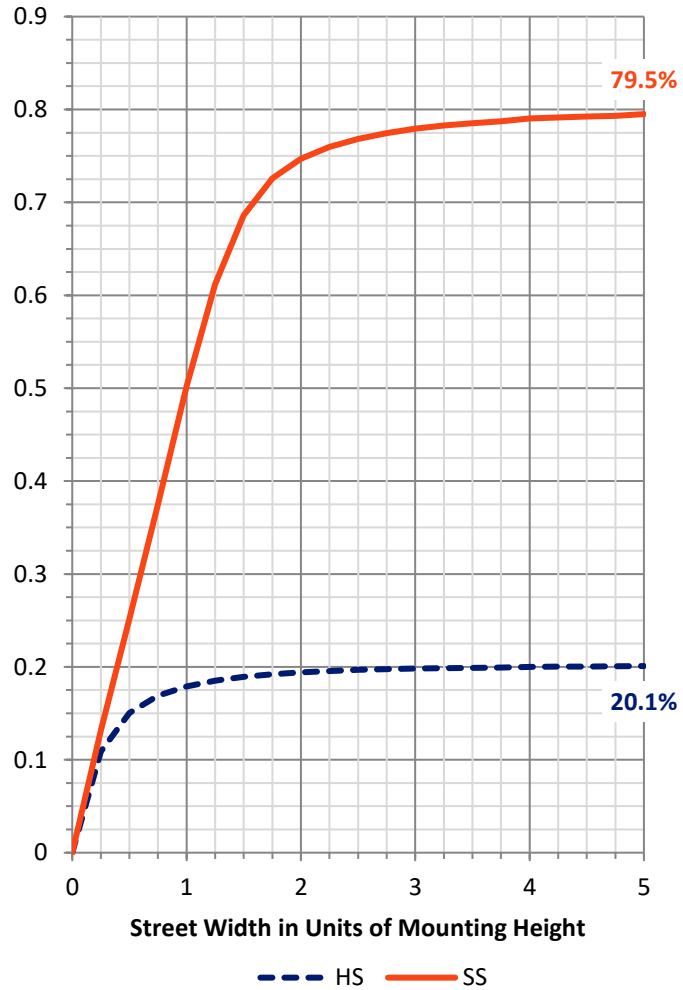
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3817.8	0.0	3817.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14996.3	0.0	14996.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	18814.1	0.0	18814.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.9
10°-20°	896.7	4.8
20°-30°	1232.5	6.6
30°-40°	1685.1	9.0
40°-50°	2553.3	13.6
50°-60°	3969.2	21.1
60°-70°	4832.5	25.7
70°-80°	2943.7	15.6
80°-90°	336.2	1.8
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°	18814.1	100.0
0°-180°	18814.1	100.0

Coefficient of Utilization



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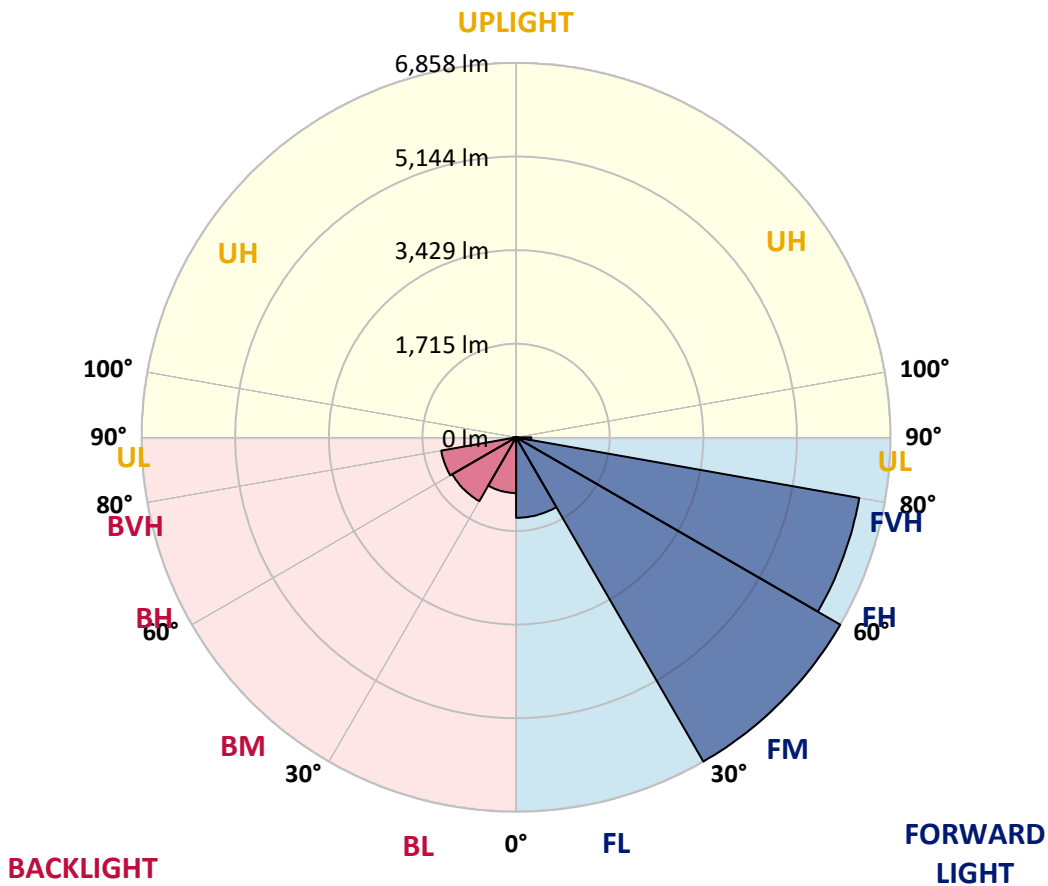
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.2	7.8			
FM (30°-60°)	6858.5	36.5			
FH (60°-80°)	6384.1	33.9			G3/7500
FVH (80°-90°)	279.6	1.5			G3/500
BL (0°-30°)	1019.9	5.4	B3/2500		
BM (30°-60°)	1349.2	7.2	B2/2500		
BH (60°-80°)	1392.0	7.4	B3/2500		G3/2500
BVH (80°-90°)	56.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4
2.5°	3893.9	3907.6	3899.3	3951.5	3954.2	4020.1	4057.2	4088.8	4091.5	4132.7	4160.1
5°	3627.6	3635.8	3635.8	3685.2	3718.2	3806.0	3891.1	3981.7	3988.6	4087.4	4162.9
7.5°	3412.1	3420.3	3414.8	3480.7	3523.3	3620.7	3729.2	3867.8	3881.5	4040.7	4172.5
10°	3243.3	3240.5	3254.3	3314.7	3369.6	3486.2	3607.0	3764.8	3785.4	3987.2	4183.5
12.5°	3128.0	3130.7	3139.0	3202.1	3261.1	3376.4	3501.3	3672.9	3694.8	3925.4	4178.0
15°	3073.1	3067.6	3074.5	3132.1	3188.4	3289.9	3419.0	3596.0	3618.0	3870.5	4179.3
17.5°	3060.7	3056.6	3055.2	3096.4	3139.0	3233.7	3357.2	3537.0	3560.3	3834.8	4187.6
20°	3099.2	3093.7	3078.6	3096.4	3114.3	3193.9	3313.3	3494.5	3520.5	3811.5	4204.0
22.5°	3204.8	3195.2	3171.9	3149.9	3126.6	3174.7	3285.8	3462.9	3489.0	3796.4	4220.5
25°	3365.4	3357.2	3332.5	3283.1	3198.0	3189.8	3280.3	3449.2	3475.2	3785.4	4227.4
27.5°	3586.4	3574.1	3549.4	3478.0	3339.4	3246.0	3300.9	3447.8	3472.5	3773.1	4220.5
30°	3848.6	3840.3	3826.6	3740.1	3554.8	3365.4	3347.6	3458.8	3478.0	3766.2	4206.8
32.5°	4114.8	4106.6	4117.6	4076.4	3848.6	3563.1	3449.2	3489.0	3502.7	3764.8	4194.4
35°	4349.5	4359.1	4438.7	4445.6	4221.9	3830.7	3609.7	3559.0	3561.7	3792.3	4199.9
37.5°	4595.2	4632.3	4736.6	4825.8	4639.1	4184.8	3848.6	3690.7	3688.0	3862.3	4234.2
40°	4920.5	4937.0	5070.1	5237.6	5120.9	4670.7	4187.6	3906.2	3887.0	4005.0	4326.2
42.5°	5237.6	5277.4	5490.1	5682.3	5643.8	5218.3	4614.4	4228.8	4194.4	4257.6	4515.6
45°	5641.1	5679.5	5918.3	6165.4	6235.4	5837.4	5160.7	4687.2	4652.9	4637.8	4862.9
47.5°	6044.6	6084.4	6298.5	6655.4	6901.1	6611.5	5871.7	5292.5	5236.2	5177.2	5387.2
50°	6316.4	6363.0	6567.5	6995.8	7572.2	7577.7	6714.4	6085.8	6014.4	5921.1	6125.6
52.5°	6306.8	6337.0	6531.9	7026.0	8055.4	8688.1	7842.6	7096.0	7038.3	6835.2	7013.6
55°	5811.3	5856.6	6052.8	6670.5	8107.5	9740.8	9500.6	8287.3	8184.4	7820.7	8016.9
57.5°	4816.2	4854.6	5052.3	5814.0	7645.0	10280.2	11606.1	9805.3	9664.0	8894.0	9120.4
60°	3635.8	3589.2	3682.5	4349.5	6538.7	10293.9	13464.5	11864.1	11628.0	10041.4	10230.8
62.5°	2728.6	2681.9	2702.5	2890.5	4433.3	9462.2	14524.1	14680.5	14290.7	11337.1	11300.0
65°	2156.2	2130.2	2189.2	2318.2	2584.5	7205.8	14532.3	17726.2	17480.5	12838.6	12396.7
67.5°	1756.8	1740.4	1800.8	2039.6	2095.8	3871.9	13030.8	19148.1	19244.2	14482.9	13413.7
70°	1415.1	1390.4	1485.1	1799.4	1949.0	2342.9	9334.6	18423.4	18578.5	15462.9	13126.8
72.5°	977.2	978.6	1026.6	1457.6	1881.7	2023.1	5280.1	15340.7	15677.0	14574.9	11540.2
75°	658.8	664.3	678.0	962.1	1733.5	1962.7	2813.7	11614.3	11851.8	12046.7	9539.1
77.5°	398.0	400.8	432.3	582.0	1195.5	1832.3	1906.4	8419.1	8605.7	7941.4	5912.8
80°	230.6	240.2	269.0	389.8	807.0	1376.6	1475.5	5162.1	5373.4	3530.1	1879.0
82.5°	101.6	108.4	146.9	226.5	470.8	1170.8	1151.5	2039.6	2009.4	984.1	651.9
85°	17.8	22.0	31.6	71.4	172.9	617.6	893.5	900.4	846.8	373.3	270.4
87.5°	0.0	0.0	0.0	0.0	0.0	4.1	134.5	241.6	240.2	105.7	93.3
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°	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4	4157.4
2.5°	4178.0	4140.9	4173.9	4178.0	4171.1	4165.6	4124.4	4088.8	4084.6	4046.2	4046.2
5°	4193.1	4158.8	4175.2	4143.7	4094.2	4043.5	3955.6	3895.2	3867.8	3818.4	3818.4
7.5°	4213.7	4178.0	4158.8	4080.5	3965.2	3854.1	3712.7	3594.6	3546.6	3476.6	3473.9
10°	4232.9	4187.6	4121.7	3969.3	3785.4	3608.4	3402.5	3235.0	3121.1	3037.4	3037.4
12.5°	4231.5	4172.5	4042.1	3817.0	3563.1	3306.4	3031.9	2779.4	2628.4	2498.0	2489.8
15°	4228.8	4147.8	3940.5	3639.9	3303.7	2948.2	2574.9	2245.5	2021.7	1894.1	1883.1
17.5°	4226.0	4116.2	3826.6	3438.2	2988.0	2503.5	2010.8	1653.9	1467.2	1389.0	1391.7
20°	4226.0	4080.5	3704.4	3206.2	2624.3	1970.9	1475.5	1216.1	1169.4	1173.5	1177.6
22.5°	4213.7	4036.6	3568.6	2953.7	2219.4	1449.4	1088.4	1000.6	1025.3	1063.7	1069.2
25°	4184.8	3963.9	3410.7	2673.7	1737.6	1055.5	888.0	871.6	916.8	964.9	978.6
27.5°	4139.5	3880.1	3233.7	2345.6	1279.2	848.2	781.0	779.6	815.3	851.0	863.3
30°	4091.5	3786.8	3047.0	1980.6	926.5	738.4	712.3	712.3	730.2	752.1	749.4
32.5°	4035.2	3692.1	2846.6	1600.4	754.9	676.7	668.4	664.3	667.0	675.3	675.3
35°	3987.2	3608.4	2640.7	1198.2	676.7	642.3	634.1	624.5	620.4	614.9	617.6
37.5°	3969.3	3542.5	2428.0	903.1	638.2	617.6	603.9	590.2	580.6	577.8	576.5
40°	3998.2	3515.0	2215.3	743.9	610.8	591.6	576.5	558.6	550.4	550.4	550.4
42.5°	4110.7	3535.6	1998.4	672.5	591.6	569.6	547.6	531.2	528.4	531.2	532.5
45°	4316.6	3615.2	1773.3	636.9	575.1	547.6	521.6	509.2	509.2	512.0	512.0
47.5°	4684.4	3823.9	1551.0	614.9	558.6	529.8	502.3	490.0	488.6	491.4	491.4
50°	5321.3	4199.9	1350.6	599.8	546.3	516.1	488.6	472.1	468.0	466.7	466.7
52.5°	6124.2	4851.9	1222.9	588.8	531.2	501.0	473.5	451.6	443.3	439.2	439.2
55°	7094.6	5720.7	1222.9	580.6	512.0	483.1	451.6	429.6	417.2	411.8	411.8
57.5°	8194.0	6732.2	1434.3	573.7	496.9	462.5	428.2	406.3	392.5	384.3	384.3
60°	9312.6	7801.4	1957.2	564.1	483.1	436.5	402.2	381.6	363.7	354.1	352.7
62.5°	10472.4	8979.1	2646.2	569.6	473.5	411.8	374.7	351.4	336.3	326.7	325.3
65°	11534.7	10100.4	3248.8	612.1	474.9	389.8	343.1	322.5	310.2	297.8	296.5
67.5°	12436.5	10719.4	2826.0	698.6	503.7	363.7	311.6	291.0	280.0	271.8	270.4
70°	11805.1	9775.1	1603.1	752.1	543.5	336.3	275.9	262.2	251.2	245.7	244.3
72.5°	10094.9	8276.3	1071.9	664.3	495.5	300.6	242.9	232.0	223.7	216.9	215.5
75°	8177.5	6563.4	819.4	544.9	385.7	244.3	208.6	200.4	192.2	185.3	183.9
77.5°	4838.2	3792.3	603.9	431.0	271.8	190.8	172.9	166.1	157.8	152.4	151.0
80°	1544.1	1317.6	382.9	296.5	179.8	146.9	133.1	127.6	119.4	112.5	111.2
82.5°	588.8	509.2	203.1	151.0	119.4	100.2	89.2	83.7	78.2	71.4	70.0
85°	260.8	244.3	112.5	81.0	64.5	49.4	43.9	41.2	34.3	28.8	27.5
87.5°	92.0	92.0	48.0	23.3	13.7	6.9	4.1	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)