

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: P637534

Luminaire Tested: GWS-SA4D-722-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10592 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

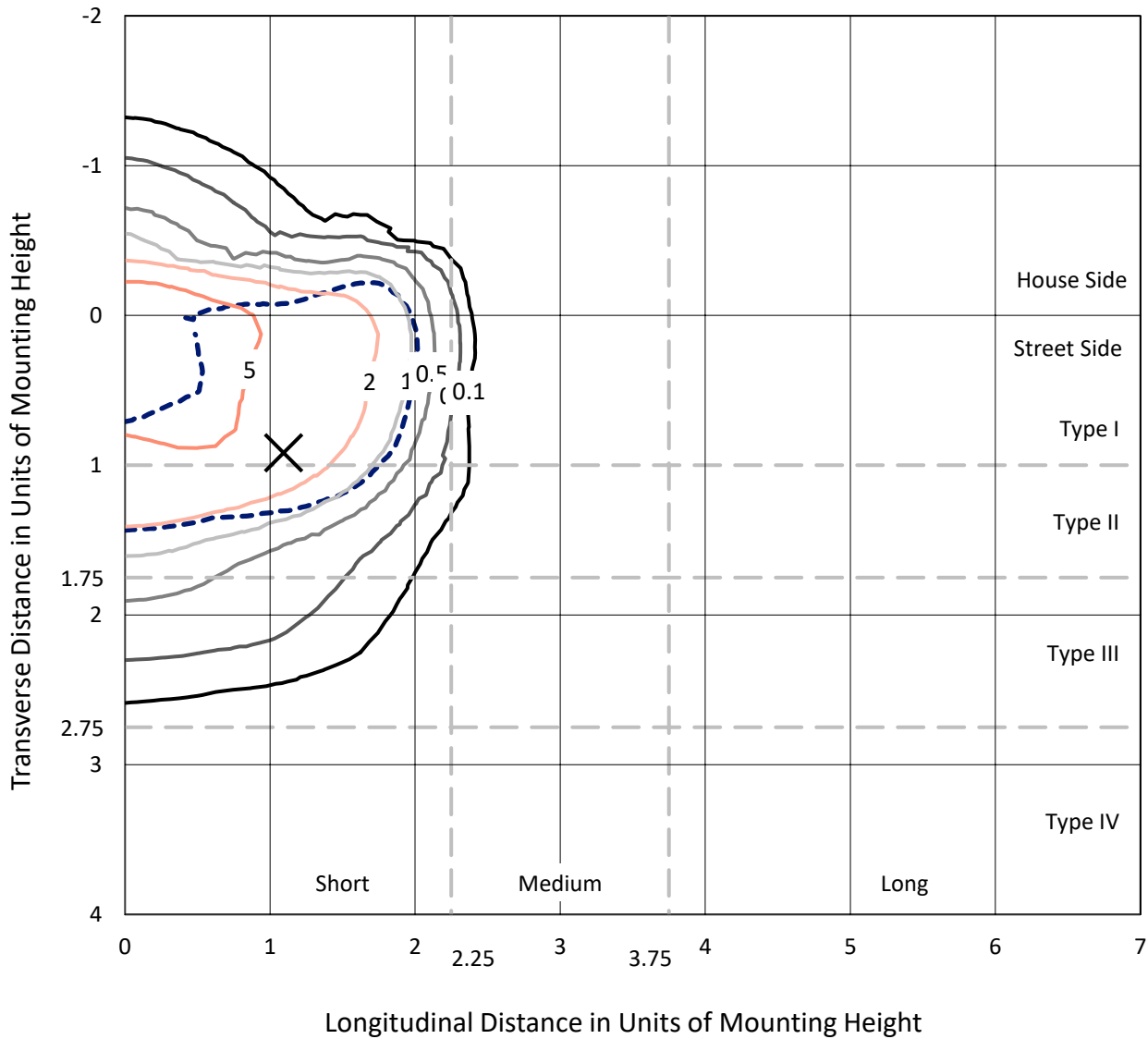
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

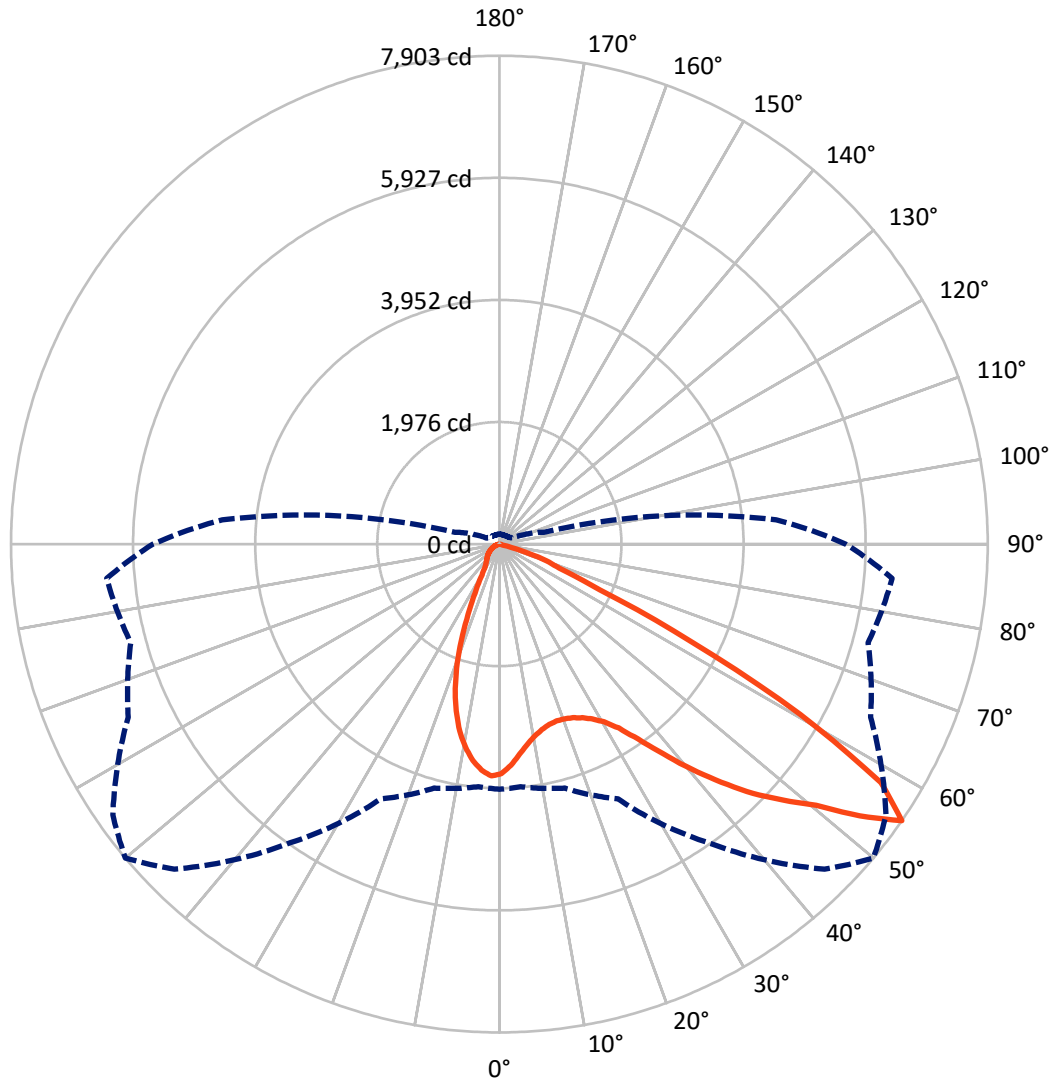
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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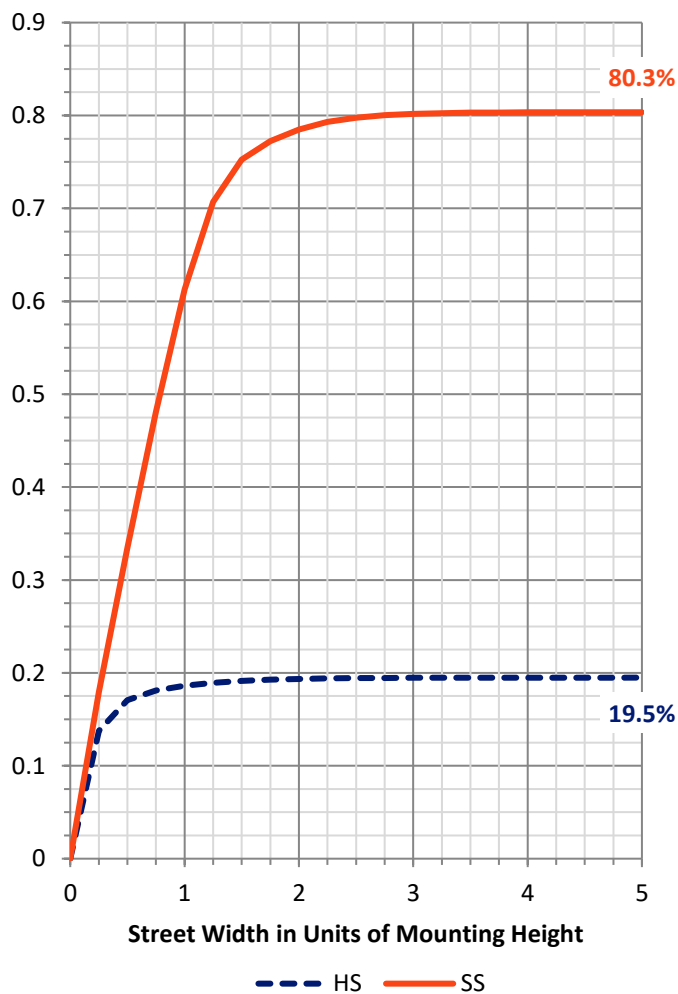
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.1	0.0	2087.1
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	8504.9	0.0	8504.9
	% Fixture	80.3	0.0	80.3
Total	Lumens	10592.0	0.0	10592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	3.1
10°-20°	803.1	7.6
20°-30°	1132.8	10.7
30°-40°	1676.4	15.8
40°-50°	2418.5	22.8
50°-60°	2852.8	26.9
60°-70°	1272.6	12.0
70°-80°	109.4	1.0
80°-90°	0.0	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°	10592.0	100.0
0°-180°	10592.0	100.0

Coefficient of Utilization



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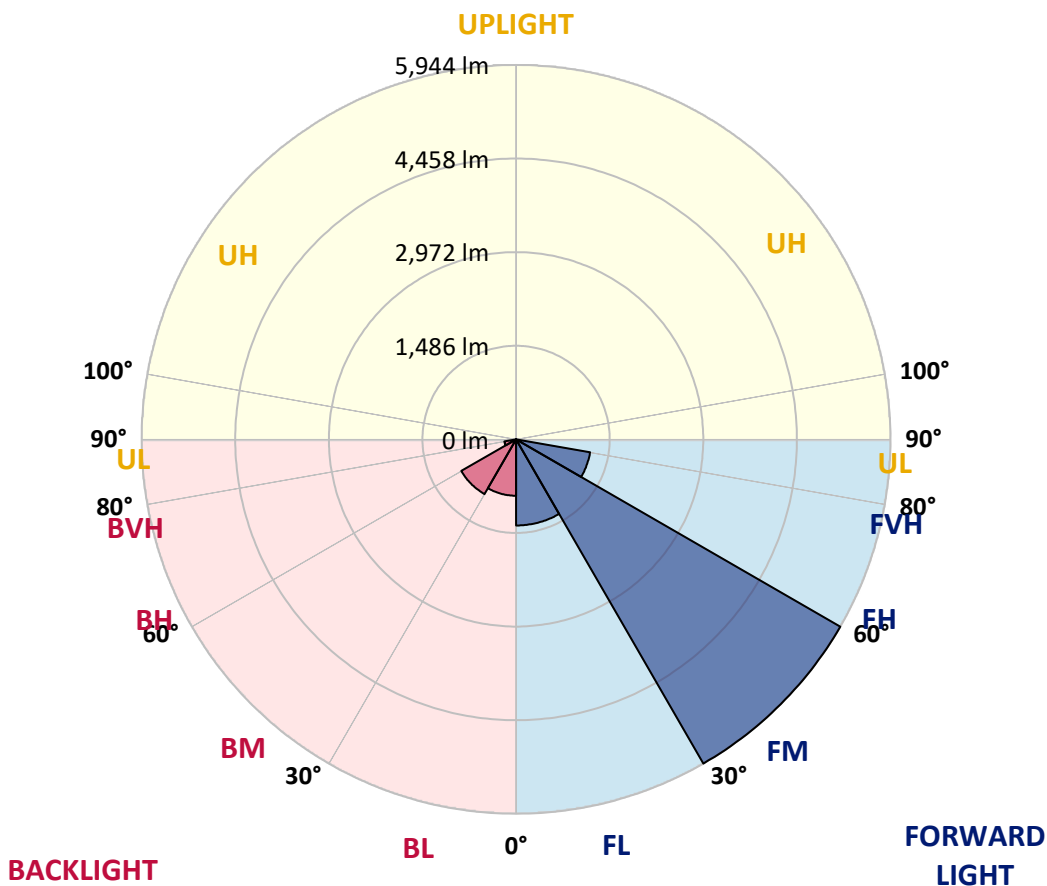
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.5	12.9			
FM (30°-60°)	5943.9	56.1			
FH (60°-80°)	1193.5	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	894.9	8.4	B2/1000		
BM (30°-60°)	1003.7	9.5	B2/2500		
BH (60°-80°)	188.5	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3
2.5°	3452.5	3455.1	3456.4	3491.3	3504.2	3555.9	3583.1	3597.3	3634.8	3678.8	3715.0
5°	3221.0	3217.1	3223.6	3267.6	3296.0	3372.3	3413.7	3442.1	3524.9	3628.3	3715.0
7.5°	3019.3	3027.1	3034.8	3082.7	3125.3	3208.1	3267.6	3310.2	3425.3	3579.2	3725.3
10°	2877.1	2877.1	2888.7	2943.0	2993.4	3095.6	3155.1	3209.4	3346.4	3535.2	3737.0
12.5°	2772.3	2773.6	2787.8	2849.9	2908.1	3014.1	3076.2	3129.2	3280.5	3491.3	3739.5
15°	2723.2	2719.3	2730.9	2796.9	2861.5	2961.1	3025.8	3077.5	3234.0	3466.7	3752.5
17.5°	2710.3	2707.7	2716.7	2781.4	2847.3	2944.3	3007.7	3059.4	3227.5	3474.5	3791.3
20°	2747.8	2742.6	2738.7	2794.3	2856.4	2952.1	3018.0	3076.2	3258.5	3517.1	3850.7
22.5°	2837.0	2837.0	2827.9	2855.1	2896.5	2983.1	3051.6	3127.9	3340.0	3602.5	3938.7
25°	3001.2	2988.3	2971.5	2983.1	2977.9	3032.2	3113.7	3219.7	3493.9	3743.4	4046.0
27.5°	3188.7	3200.3	3171.9	3173.2	3127.9	3108.5	3202.9	3363.3	3722.7	3942.5	4205.0
30°	3443.4	3434.4	3435.7	3431.8	3327.1	3235.2	3337.4	3550.8	4011.1	4246.4	4411.9
32.5°	3642.6	3655.5	3698.2	3722.7	3585.7	3438.3	3546.9	3805.5	4339.5	4593.0	4665.4
35°	3853.3	3876.6	3963.2	4043.4	3928.3	3758.9	3875.3	4143.0	4648.6	4935.6	4956.3
37.5°	4075.7	4122.3	4225.7	4366.7	4348.6	4198.6	4304.6	4539.9	4891.7	5142.5	5196.8
40°	4330.5	4375.7	4545.1	4748.1	4790.8	4757.2	4792.1	4929.2	5052.0	5151.6	5300.3
42.5°	4609.8	4671.8	4886.5	5158.0	5318.4	5348.1	5266.6	5252.4	5121.8	5048.1	5278.3
45°	4939.5	5011.9	5255.0	5606.7	5861.5	5901.5	5760.6	5578.3	5165.8	4971.8	5212.3
47.5°	5309.3	5377.8	5619.7	6042.5	6421.3	6436.9	6191.2	5897.7	5296.4	5059.8	5262.8
50°	5433.4	5476.1	5685.6	6182.1	6880.4	6999.3	6643.8	6257.1	5558.9	5318.4	5508.4
52.5°	5006.7	5023.5	5205.9	5707.6	6787.3	7551.5	7304.5	6793.8	6025.7	5712.8	5887.3
55°	3967.1	3940.0	4087.4	4547.7	5899.0	7439.0	7903.2	7636.8	6626.9	6175.7	6380.0
57.5°	2774.9	2742.6	2709.0	3020.6	4401.6	6306.3	7282.5	7754.5	7199.8	6634.7	6911.4
60°	2281.0	2249.9	2087.0	1943.5	2661.1	4528.3	5593.8	6482.1	7153.2	6611.4	6894.6
62.5°	1970.6	1952.5	1886.6	1691.3	1565.9	2584.8	3502.9	4353.7	5489.1	5191.6	5207.2
65°	1547.8	1542.6	1587.9	1608.6	1384.9	1430.1	1787.0	2262.9	2967.6	2798.2	2653.4
67.5°	1057.7	1046.1	1131.4	1391.3	1331.9	1128.8	1046.1	1055.1	1284.0	784.9	623.3
70°	672.4	645.2	646.5	862.5	1083.6	890.9	806.9	709.9	638.8	116.4	131.9
72.5°	430.6	413.8	355.6	389.2	501.7	434.5	438.3	377.6	252.1	62.1	72.4
75°	181.0	166.8	128.0	102.2	100.9	63.4	55.6	51.7	34.9	34.9	37.5
77.5°	1.3	0.0	0.0	1.3	2.6	1.3	1.3	2.6	5.2	7.8	9.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3	3716.3
2.5°	3737.0	3705.9	3740.8	3753.8	3752.5	3753.8	3716.3	3690.4	3689.1	3656.8	3641.3
5°	3751.2	3726.6	3752.5	3735.7	3695.6	3645.1	3577.9	3519.7	3493.9	3456.4	3438.3
7.5°	3778.3	3752.5	3748.6	3681.3	3581.8	3475.8	3356.8	3250.8	3193.9	3125.3	3129.2
10°	3797.7	3768.0	3717.6	3580.5	3415.0	3245.6	3068.4	2910.7	2811.1	2719.3	2703.8
12.5°	3805.5	3761.5	3643.9	3437.0	3204.2	2983.1	2723.2	2498.2	2343.0	2222.8	2206.0
15°	3819.7	3748.6	3549.5	3263.7	2944.3	2631.4	2300.4	1992.6	1787.0	1648.7	1660.3
17.5°	3841.7	3734.4	3443.4	3069.7	2665.0	2222.8	1775.4	1422.4	1233.6	1153.4	1154.7
20°	3872.7	3717.6	3327.1	2856.4	2330.1	1761.2	1241.3	975.0	922.0	919.4	915.5
22.5°	3914.1	3700.7	3202.9	2622.3	1933.1	1233.6	826.3	743.5	765.5	808.2	815.9
25°	3963.2	3680.1	3064.6	2358.5	1500.0	809.5	619.4	606.4	659.5	716.4	729.3
27.5°	4039.5	3669.7	2906.8	2058.6	1052.6	580.6	506.9	514.6	562.5	610.3	622.0
30°	4168.8	3689.1	2734.8	1722.4	676.3	462.9	439.6	451.3	477.1	501.7	512.1
32.5°	4344.7	3746.0	2568.0	1355.1	482.3	402.1	397.0	403.4	413.8	428.0	431.9
35°	4550.3	3844.3	2396.0	969.8	398.3	367.2	362.1	362.1	367.2	369.8	371.1
37.5°	4719.7	3947.7	2234.4	645.2	356.9	340.1	332.3	328.4	327.1	329.7	331.0
40°	4793.4	3990.4	2058.6	469.4	327.1	315.5	303.9	292.2	292.2	301.3	302.6
42.5°	4741.7	3942.5	1855.5	387.9	306.5	289.6	271.5	261.2	266.4	275.4	278.0
45°	4631.8	3824.9	1631.8	342.7	285.8	263.8	243.1	236.6	241.8	253.4	256.0
47.5°	4613.6	3747.3	1364.2	312.9	263.8	241.8	219.8	213.4	219.8	228.9	231.5
50°	4793.4	3814.5	1066.8	287.1	243.1	218.5	200.4	194.0	197.8	203.0	205.6
52.5°	5121.8	4064.1	861.2	262.5	218.5	195.3	183.6	175.9	175.9	181.0	182.3
55°	5606.7	4499.9	743.5	234.0	190.1	177.1	166.8	159.0	159.0	161.6	162.9
57.5°	6165.3	5027.4	770.7	196.5	166.8	160.3	151.3	144.8	147.4	147.4	147.4
60°	6087.7	4988.6	825.0	165.5	147.4	144.8	137.1	134.5	140.9	135.8	133.2
62.5°	4484.3	3446.0	431.9	135.8	126.7	124.1	119.0	124.1	133.2	119.0	113.8
65°	2177.5	1668.1	173.3	111.2	107.3	104.7	102.2	109.9	115.1	93.1	87.9
67.5°	512.1	416.4	112.5	94.4	89.2	84.0	86.6	87.9	84.0	63.4	60.8
70°	133.2	130.6	87.9	78.9	71.1	65.9	65.9	64.7	55.6	40.1	37.5
72.5°	72.4	71.1	63.4	59.5	49.1	44.0	45.3	40.1	31.0	23.3	22.0
75°	36.2	38.8	36.2	33.6	27.2	24.6	24.6	22.0	15.5	9.1	9.1
77.5°	7.8	9.1	9.1	7.8	6.5	5.2	5.2	6.5	2.6	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)