

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: P634722

Luminaire Tested: GWS-SA3C-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3C-735-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

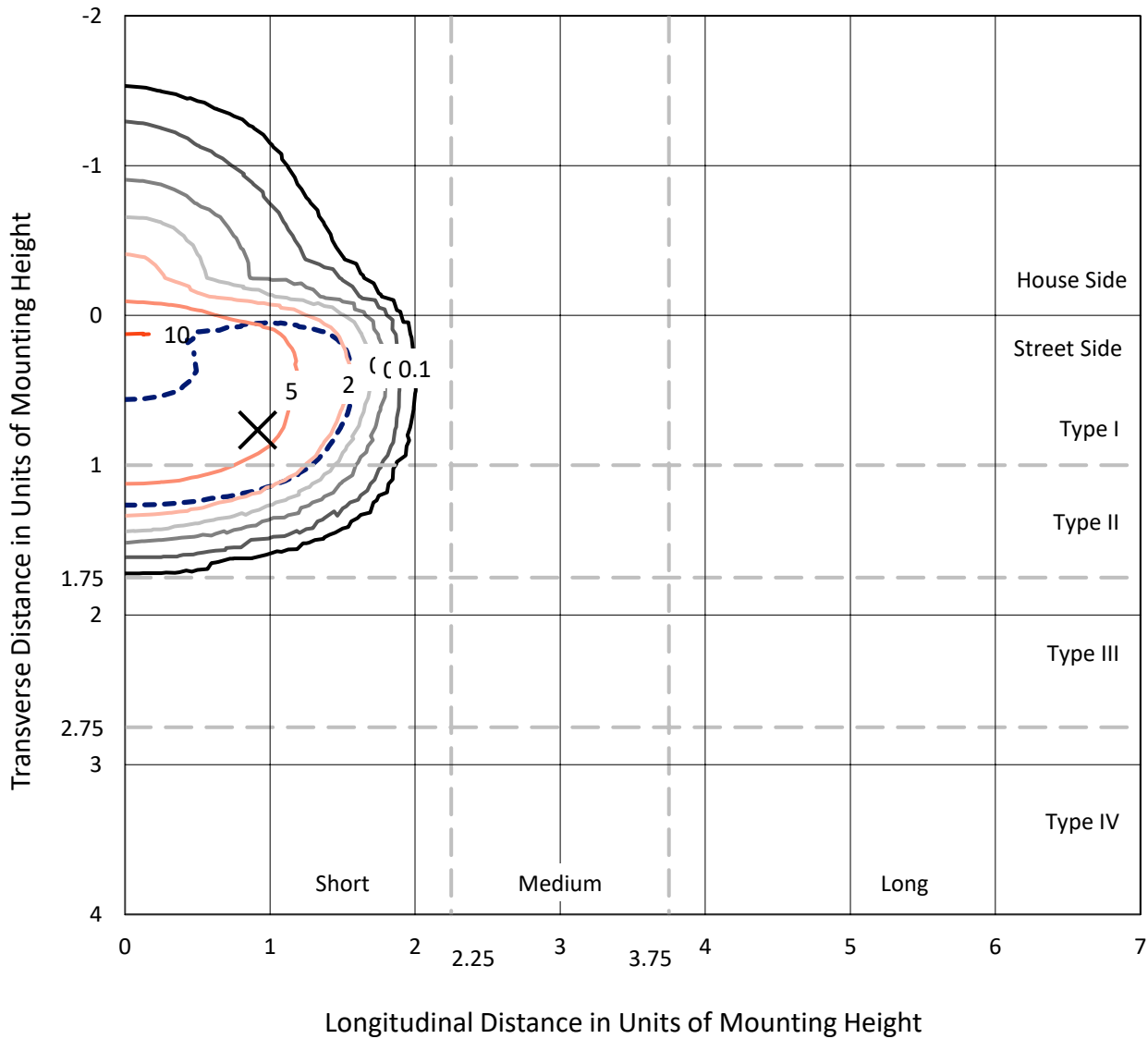
Lumens per Lamp: N/A  
Luminaire Lumens: 10362 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 93  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

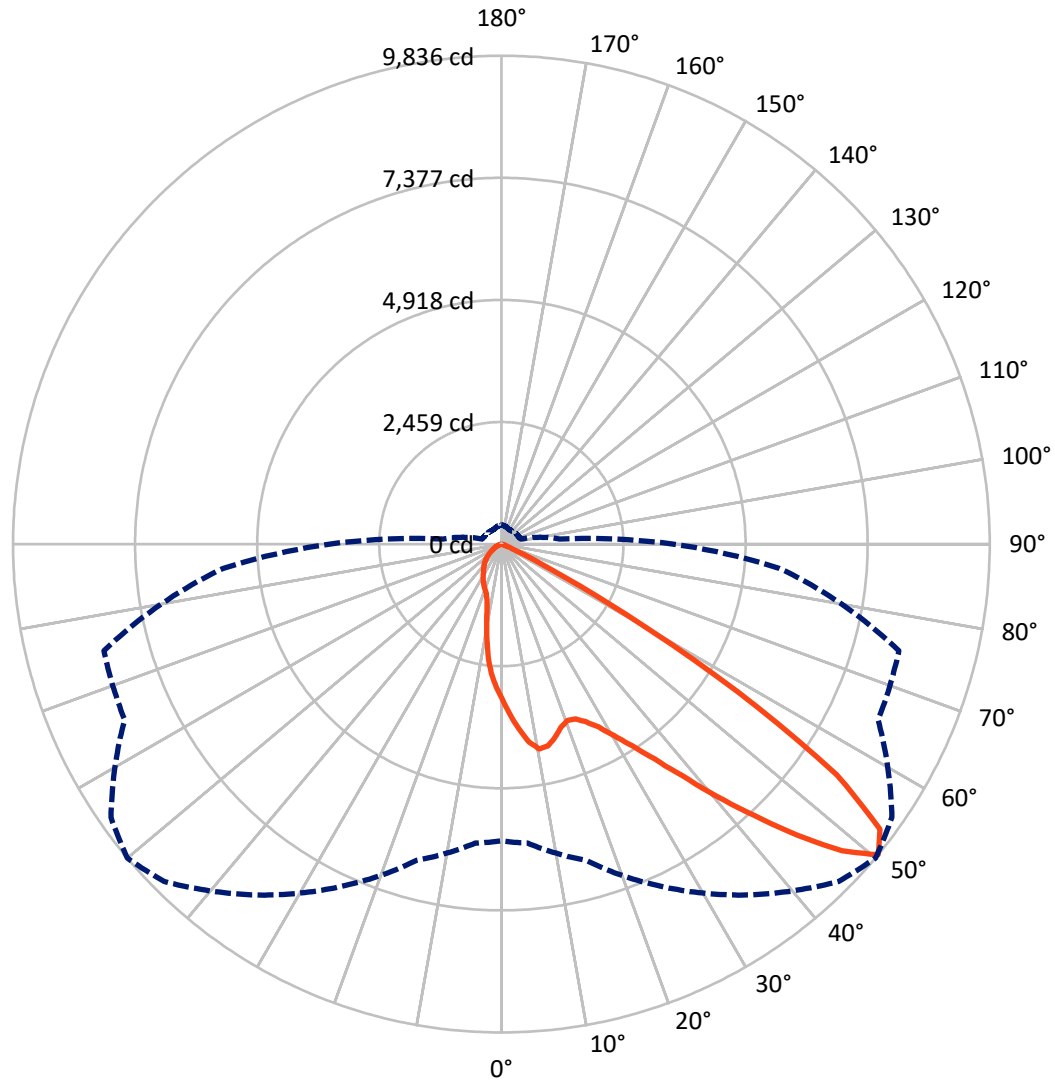
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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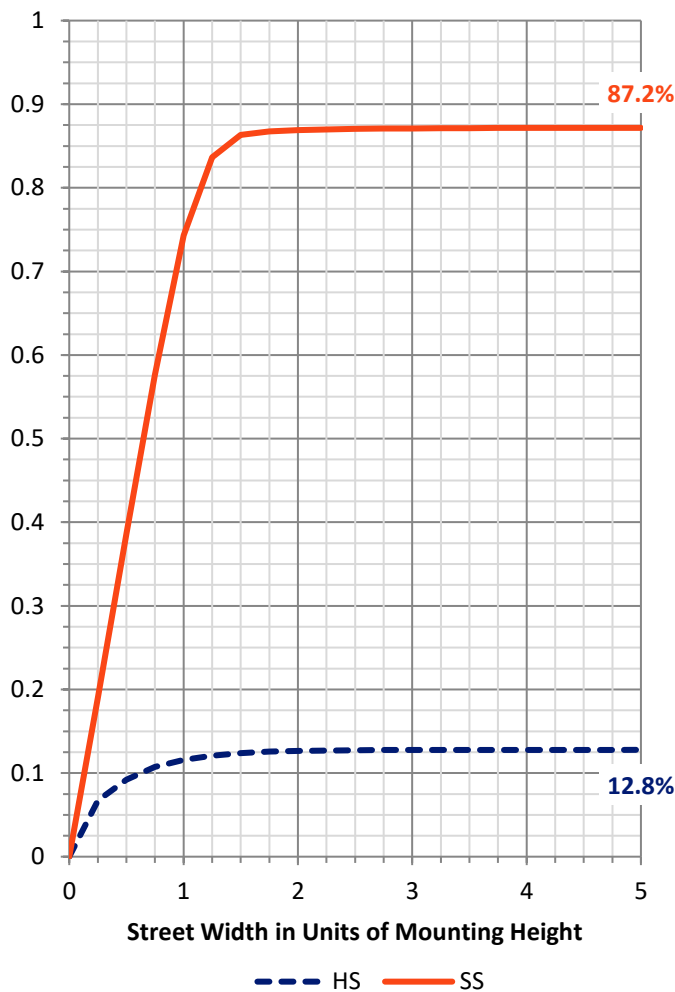
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1331.3	0.0	1331.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	9030.6	0.0	9030.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	10362.0	0.0	10362.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.2	2.8
10°-20°	751.4	7.3
20°-30°	1240.0	12.0
30°-40°	2046.3	19.7
40°-50°	3237.7	31.2
50°-60°	2451.3	23.7
60°-70°	306.8	3.0
70°-80°	34.7	0.3
80°-90°	2.6	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°	10362.0	100.0
0°-180°	10362.0	100.0

**Coefficient of Utilization**



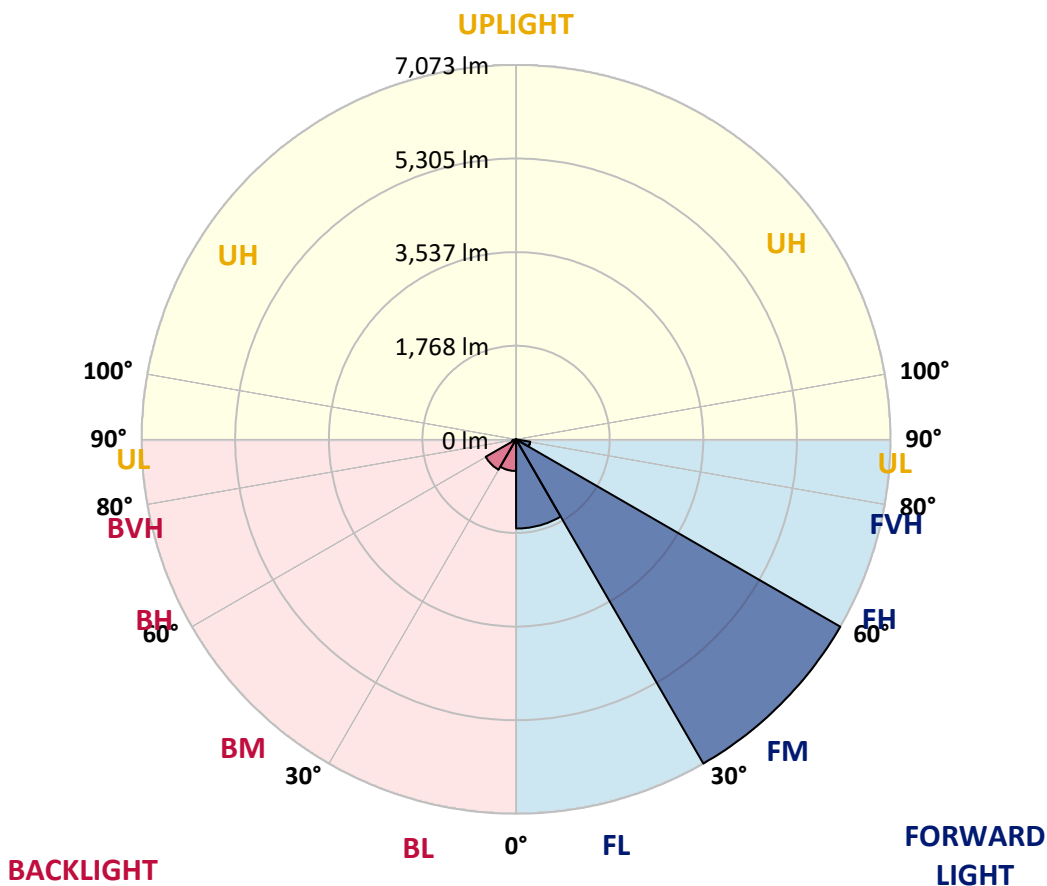
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.0	16.3			
FM (30°-60°)	7073.2	68.3			
FH (60°-80°)	271.2	2.6			G0/660
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	597.6	5.8	B2/1000		
BM (30°-60°)	662.1	6.4	B1/1000		
BH (60°-80°)	70.3	0.7	B0/110		G0/110
BVH (80°-90°)	1.4	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3
2.5°	3577.2	3605.8	3597.9	3560.4	3520.0	3491.4	3447.0	3433.2	3332.6	3262.6	3188.6
5°	4009.2	4018.0	4008.2	3962.8	3891.8	3823.7	3750.8	3708.3	3539.7	3387.8	3233.0
7.5°	4112.7	4101.9	4120.6	4143.3	4133.4	4103.8	4026.9	3980.6	3779.4	3531.8	3297.1
10°	3789.2	3764.6	3834.6	3952.0	4075.2	4214.3	4194.6	4198.5	4013.1	3713.3	3380.9
12.5°	3360.2	3350.3	3402.6	3538.7	3780.3	4095.9	4171.9	4299.1	4227.1	3909.5	3476.6
15°	3171.8	3176.8	3208.3	3294.1	3467.7	3860.2	4042.7	4272.5	4418.5	4099.9	3582.1
17.5°	3200.4	3218.2	3217.2	3245.8	3351.3	3665.9	3879.0	4188.7	4566.4	4318.8	3703.4
20°	3394.7	3412.5	3385.8	3364.1	3399.6	3616.6	3793.2	4103.8	4666.0	4539.8	3831.6
22.5°	3685.7	3706.4	3643.3	3581.1	3558.4	3697.5	3825.7	4069.3	4742.0	4742.0	3946.0
25°	4037.8	4066.4	3968.7	3858.3	3795.1	3868.1	3964.8	4147.2	4819.9	4923.4	4024.0
27.5°	4431.3	4432.3	4348.4	4224.2	4105.8	4114.7	4172.9	4322.8	4905.7	5118.7	4085.1
30°	4874.1	4877.1	4765.6	4616.7	4467.8	4427.3	4476.6	4590.1	5084.2	5364.3	4169.9
32.5°	5446.1	5460.0	5300.2	5081.2	4887.9	4812.0	4840.6	4959.9	5368.2	5672.0	4297.1
35°	6219.4	6234.2	5998.4	5709.5	5401.8	5287.4	5316.0	5436.3	5779.5	6108.9	4500.3
37.5°	6982.7	7002.5	6763.8	6494.5	6072.4	5883.1	5912.6	6027.1	6396.9	6712.5	4825.8
40°	7510.4	7537.0	7463.0	7281.6	6890.0	6641.5	6677.0	6718.4	7076.4	7434.4	5247.9
42.5°	7788.5	7826.0	7857.6	7950.3	7744.1	7536.0	7475.9	7478.8	7767.8	8170.2	5686.8
45°	7805.3	7841.8	8003.5	8361.5	8518.4	8475.0	8365.5	8291.5	8295.5	8660.4	5961.0
47.5°	7262.8	7330.9	7633.7	8334.9	8924.7	9284.7	9229.4	9053.9	8517.4	8692.9	5931.4
50°	5977.7	6044.8	6595.1	7604.1	8628.8	9608.2	9836.0	9600.3	8372.4	8287.6	5626.6
52.5°	4341.5	4348.4	4705.5	5884.0	7429.5	9011.5	9548.0	9525.3	8151.5	7796.4	5210.4
55°	2062.3	2037.6	2439.0	3320.7	5138.4	7288.5	8192.9	8449.3	7837.8	7441.4	4887.9
57.5°	600.6	612.5	791.0	1295.9	2570.2	4658.1	5610.8	6088.2	6433.4	6117.8	3791.2
60°	269.2	270.2	300.8	394.5	856.1	2166.8	2900.6	3491.4	3846.4	3564.4	1880.8
62.5°	195.3	196.3	208.1	222.9	290.9	733.8	1087.8	1449.8	1476.4	966.5	476.4
65°	162.7	162.7	164.7	164.7	174.6	262.3	330.4	426.1	359.0	266.3	186.4
67.5°	131.2	132.2	134.1	134.1	131.2	131.2	142.0	155.8	166.7	206.1	171.6
70°	102.6	101.6	101.6	102.6	99.6	84.8	91.7	104.5	114.4	160.8	148.9
72.5°	79.9	80.9	79.9	75.9	69.0	50.3	54.2	68.1	73.0	100.6	100.6
75°	60.2	61.1	57.2	43.4	28.6	15.8	20.7	33.5	42.4	49.3	36.5
77.5°	7.9	7.9	5.9	5.9	4.9	5.9	5.9	7.9	11.8	11.8	8.9
80°	1.0	1.0	1.0	2.0	3.0	3.9	3.9	3.9	3.9	4.9	4.9
82.5°	1.0	1.0	1.0	1.0	3.0	3.0	3.9	3.9	3.9	3.9	3.9
85°	0.0	0.0	0.0	1.0	2.0	3.0	3.0	3.9	3.9	3.9	3.9
87.5°	0.0	0.0	0.0	1.0	2.0	3.0	3.0	3.0	3.9	3.9	3.9
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°	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3
2.5°	3144.2	3087.0	3018.0	2970.6	2903.6	2859.2	2796.1	2753.6	2717.2	2688.6	2704.3
5°	3145.2	3054.5	2913.4	2793.1	2661.9	2541.6	2412.4	2310.8	2219.1	2177.7	2200.4
7.5°	3164.9	3034.7	2818.7	2604.7	2353.2	2104.7	1871.9	1682.6	1588.9	1544.5	1558.3
10°	3203.4	3025.9	2713.2	2358.2	1949.8	1610.6	1384.7	1256.5	1204.2	1176.6	1181.5
12.5°	3238.9	3019.9	2576.1	2033.7	1538.6	1249.6	1132.2	1114.5	1125.3	1126.3	1125.3
15°	3287.2	3009.1	2406.5	1700.3	1230.9	1080.0	1082.9	1108.6	1134.2	1142.1	1140.1
17.5°	3338.5	2992.3	2187.5	1380.8	1044.5	1030.6	1065.2	1099.7	1125.3	1129.3	1130.3
20°	3391.8	2957.8	1938.0	1127.3	957.7	993.2	1031.6	1057.3	1076.0	1081.9	1083.9
22.5°	3416.4	2884.8	1650.0	945.8	899.5	946.8	975.4	1008.9	1014.9	993.2	997.1
25°	3403.6	2761.5	1368.9	823.5	841.3	888.6	931.0	914.3	889.6	873.8	878.8
27.5°	3363.2	2597.8	1093.8	733.8	779.1	839.3	844.2	825.5	821.6	808.7	812.7
30°	3319.8	2409.4	879.7	661.8	716.0	779.1	764.4	771.3	772.2	757.4	762.4
32.5°	3293.1	2212.2	700.2	613.5	675.6	687.4	717.0	730.8	731.8	697.3	703.2
35°	3302.0	2017.9	592.7	574.0	638.1	635.2	676.6	684.5	627.3	579.9	584.9
37.5°	3374.0	1838.4	531.6	543.4	573.0	595.7	627.3	575.0	562.2	540.5	543.4
40°	3508.1	1685.5	495.1	524.7	528.6	565.1	516.8	523.7	524.7	510.9	513.8
42.5°	3665.0	1558.3	473.4	513.8	504.0	509.9	461.6	475.4	490.2	484.3	485.2
45°	3743.9	1434.0	454.7	476.4	479.3	423.1	412.3	427.1	445.8	448.7	449.7
47.5°	3673.8	1315.7	434.9	422.1	441.8	385.6	372.8	377.7	399.4	411.3	413.2
50°	3459.8	1179.6	405.4	373.8	362.9	346.2	334.3	335.3	360.0	380.7	384.6
52.5°	3159.0	1037.5	357.0	316.6	291.9	304.8	307.7	301.8	324.5	345.2	349.1
55°	2867.1	860.0	283.1	257.4	234.7	262.3	270.2	262.3	269.2	283.1	284.0
57.5°	2018.9	486.2	217.0	213.0	194.3	224.9	237.7	225.9	214.0	222.9	224.9
60°	936.0	254.5	166.7	166.7	161.7	193.3	215.0	198.2	175.6	179.5	182.5
62.5°	292.9	160.8	122.3	115.4	132.2	164.7	182.5	165.7	139.1	139.1	143.0
65°	165.7	138.1	96.7	88.8	107.5	132.2	143.0	125.3	101.6	99.6	99.6
67.5°	153.9	131.2	85.8	72.0	75.9	84.8	88.8	76.9	70.0	69.0	70.0
70°	127.2	109.5	69.0	49.3	46.4	45.4	47.3	44.4	42.4	43.4	46.4
72.5°	78.9	66.1	43.4	29.6	25.6	24.7	24.7	24.7	23.7	23.7	23.7
75°	28.6	24.7	19.7	14.8	12.8	11.8	11.8	12.8	11.8	10.8	9.9
77.5°	8.9	7.9	7.9	7.9	6.9	5.9	4.9	4.9	3.9	3.0	3.0
80°	4.9	4.9	4.9	4.9	3.9	3.9	3.0	2.0	1.0	1.0	0.0
82.5°	4.9	4.9	4.9	3.9	3.9	3.9	3.0	2.0	1.0	0.0	0.0
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.0	2.0	1.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.0	2.0	1.0	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)