

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: P636867

Luminaire Tested: GWS-SA4B-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636867  
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-SA4B-760-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

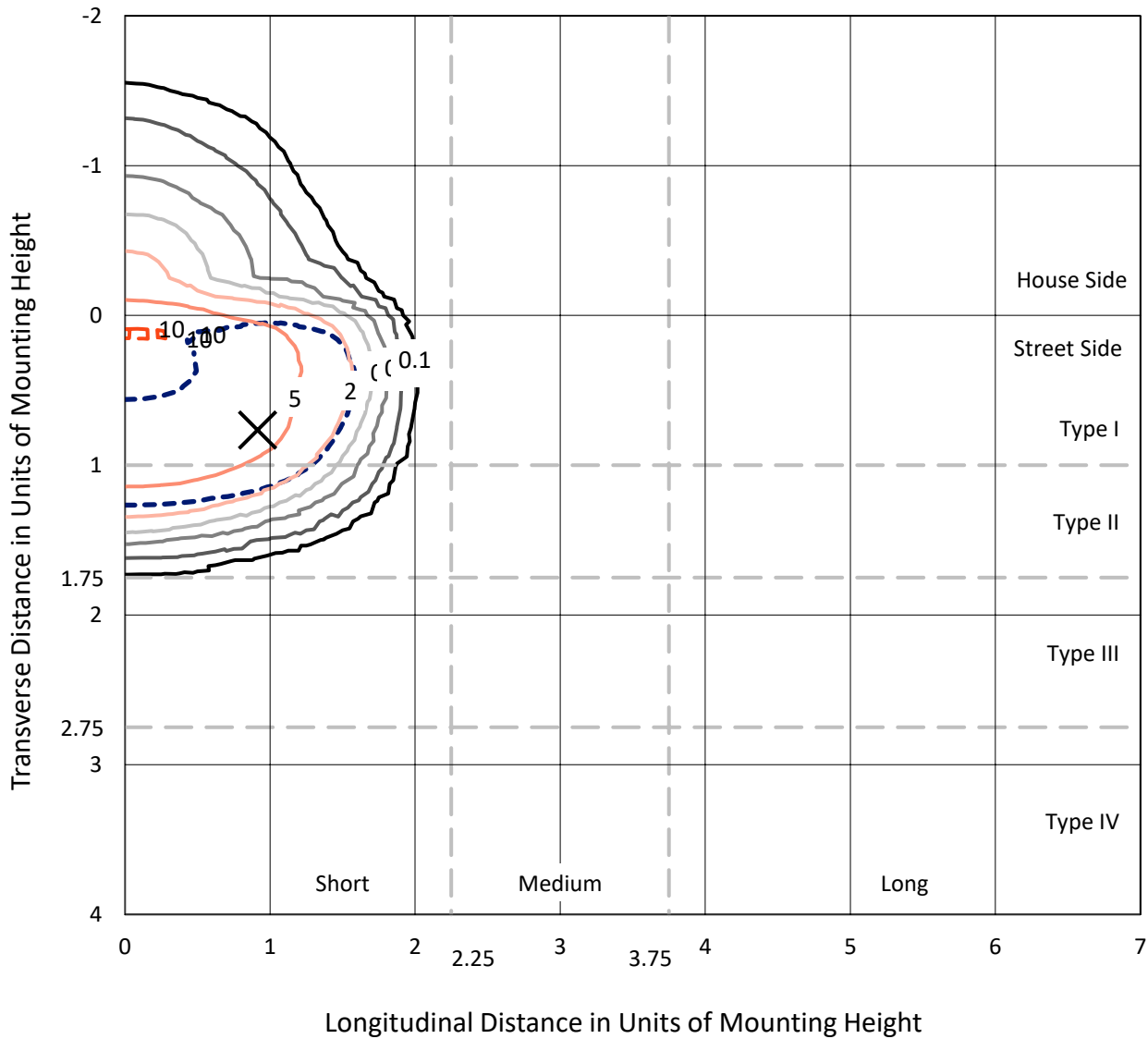
Lumens per Lamp: N/A  
Luminaire Lumens: 10998.2 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

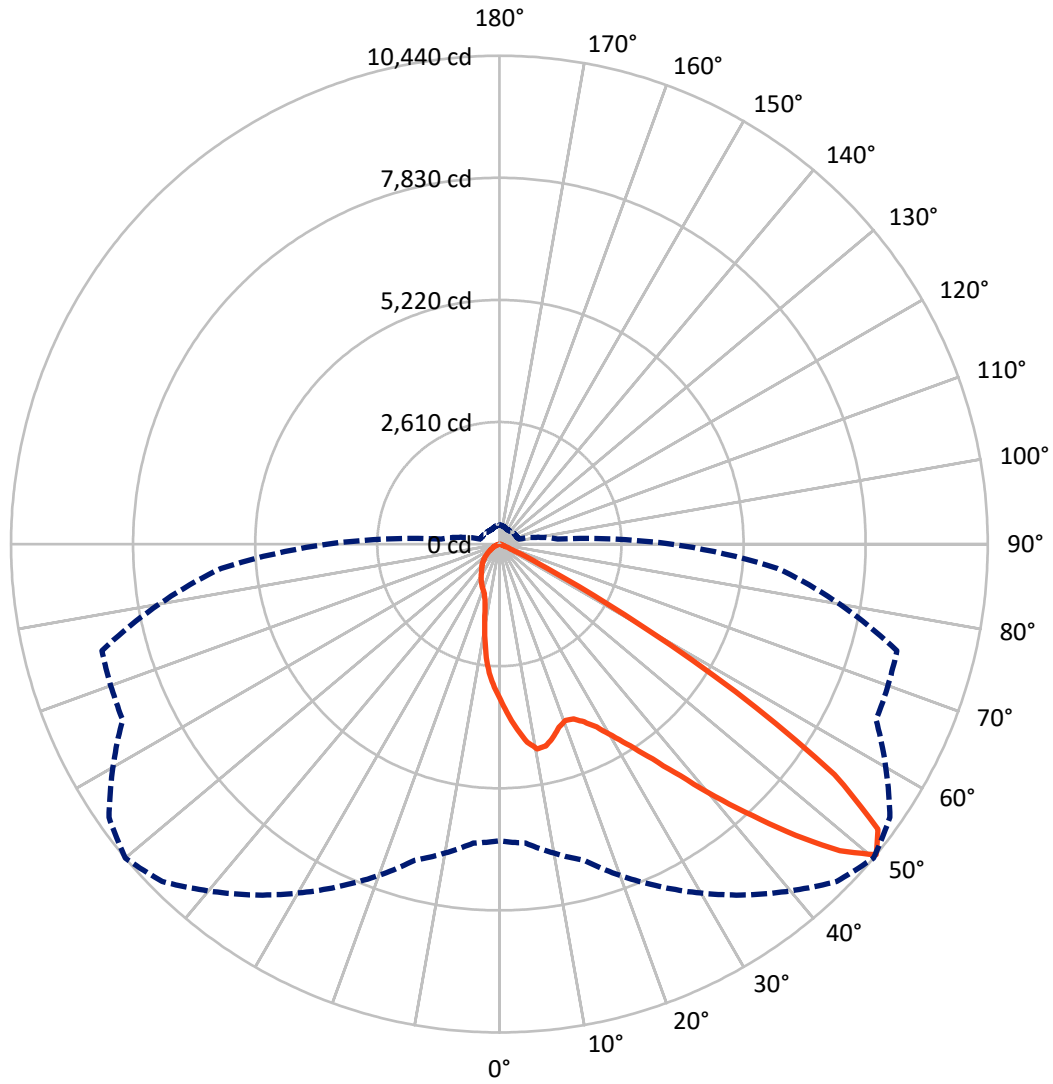
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 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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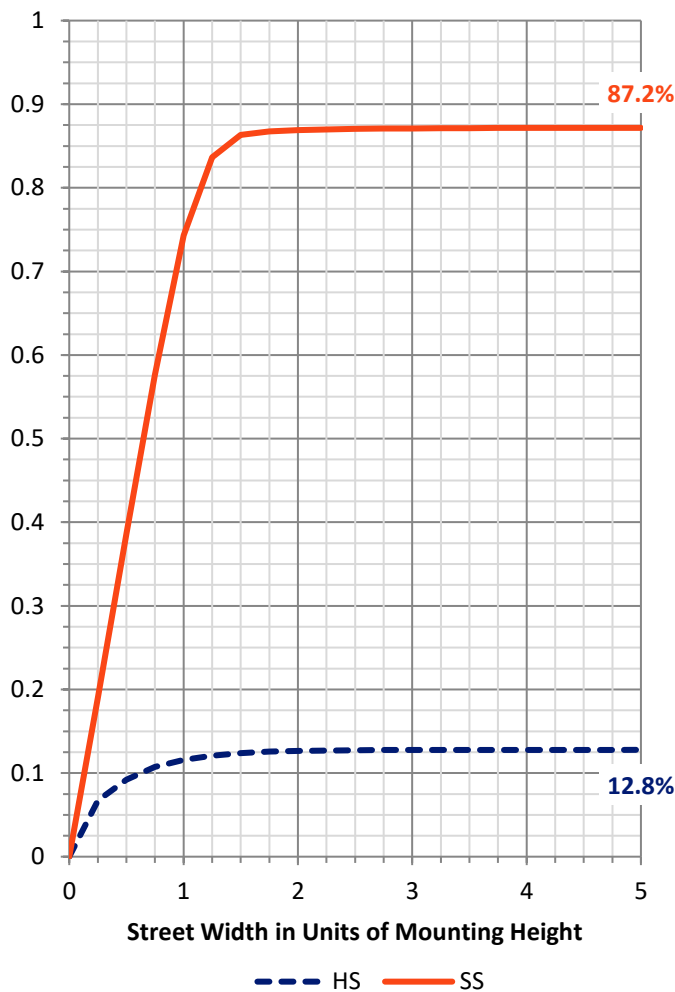
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1413.1	0.0	1413.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	9585.1	0.0	9585.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	10998.2	0.0	10998.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.1	2.8
10°-20°	797.5	7.3
20°-30°	1316.1	12.0
30°-40°	2171.9	19.7
40°-50°	3436.5	31.2
50°-60°	2601.8	23.7
60°-70°	325.6	3.0
70°-80°	36.8	0.3
80°-90°	2.8	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°	10998.2	100.0
0°-180°	10998.2	100.0

**Coefficient of Utilization**

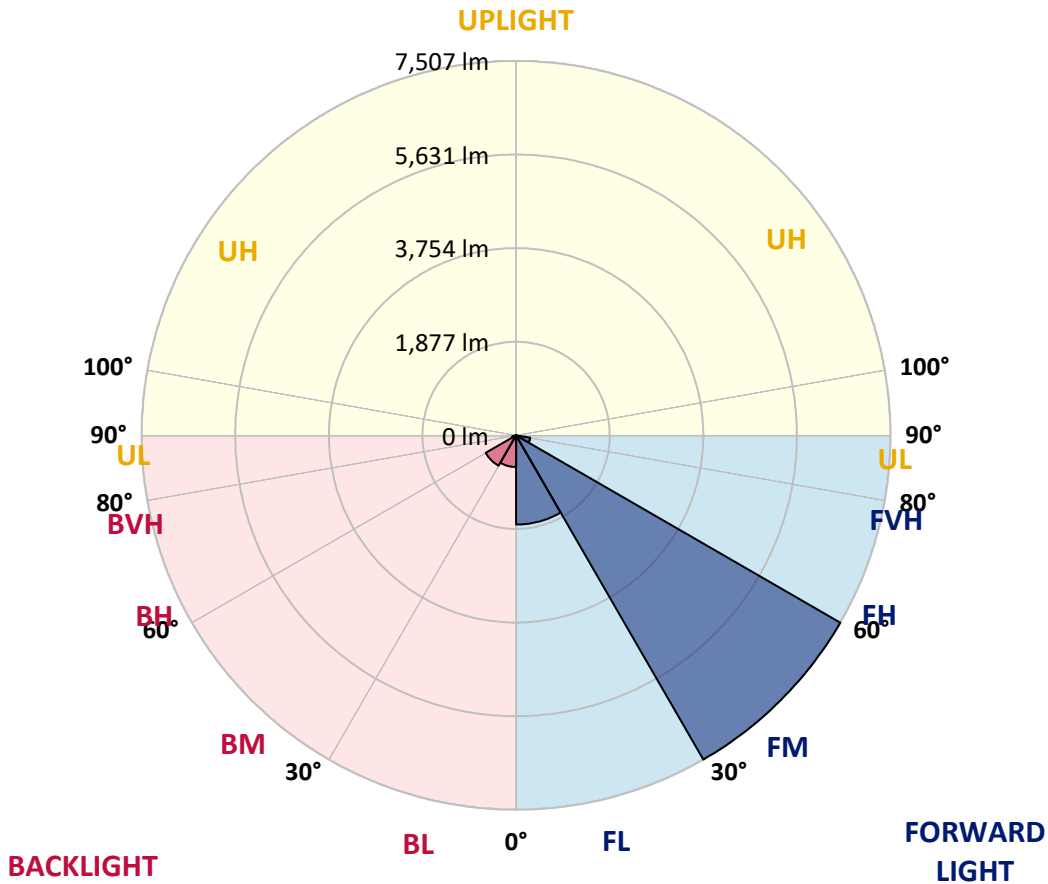


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.5	16.3			
FM (30°-60°)	7507.4	68.3			
FH (60°-80°)	287.9	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	634.3	5.8	B2/1000		
BM (30°-60°)	702.8	6.4	B1/1000		
BH (60°-80°)	74.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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°	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0
2.5°	3796.8	3827.2	3818.8	3779.0	3736.1	3705.7	3658.6	3644.0	3537.2	3462.9	3384.4
5°	4255.3	4264.7	4254.3	4206.1	4130.7	4058.5	3981.0	3936.0	3757.0	3595.8	3431.5
7.5°	4365.2	4353.7	4373.6	4397.7	4387.2	4355.8	4274.2	4225.0	4011.4	3748.7	3499.5
10°	4021.9	3995.7	4070.0	4194.6	4325.4	4473.0	4452.1	4456.3	4259.5	3941.3	3588.5
12.5°	3566.5	3556.0	3611.5	3756.0	4012.4	4347.4	4428.0	4563.1	4486.7	4149.6	3690.0
15°	3366.6	3371.8	3405.3	3496.4	3680.6	4097.2	4290.9	4534.8	4689.7	4351.6	3802.0
17.5°	3396.9	3415.8	3414.7	3445.1	3557.1	3891.0	4117.1	4445.8	4846.8	4584.0	3930.8
20°	3603.1	3622.0	3593.7	3570.7	3608.4	3838.7	4026.1	4355.8	4952.5	4818.5	4066.9
22.5°	3912.0	3933.9	3866.9	3801.0	3776.9	3924.5	4060.6	4319.2	5033.1	5033.1	4188.3
25°	4285.7	4316.0	4212.4	4095.1	4028.2	4105.6	4208.2	4401.9	5115.8	5225.7	4271.0
27.5°	4703.3	4704.4	4615.4	4483.5	4357.9	4367.3	4429.1	4588.2	5206.9	5433.0	4335.9
30°	5173.4	5176.5	5058.2	4900.1	4742.1	4699.2	4751.5	4871.9	5396.3	5693.6	4425.9
32.5°	5780.5	5795.2	5625.6	5393.2	5188.0	5107.4	5137.8	5264.4	5697.8	6020.2	4561.0
35°	6601.2	6616.9	6366.7	6060.0	5733.4	5612.0	5642.3	5770.1	6134.3	6484.0	4776.6
37.5°	7411.5	7432.4	7179.1	6893.3	6445.3	6244.3	6275.7	6397.1	6789.7	7124.6	5122.1
40°	7971.5	7999.8	7921.3	7728.6	7313.1	7049.3	7086.9	7130.9	7510.9	7890.9	5570.1
42.5°	8266.7	8306.5	8340.0	8438.4	8219.6	7998.7	7934.9	7938.0	8244.7	8671.8	6035.9
45°	8284.5	8323.2	8494.9	8874.9	9041.4	8995.3	8879.1	8800.6	8804.8	9192.1	6327.0
47.5°	7708.8	7781.0	8102.4	8846.6	9472.6	9854.7	9796.1	9609.8	9040.3	9226.6	6295.6
50°	6344.8	6415.9	7000.1	8071.0	9158.6	10198.1	10439.9	10189.7	8886.4	8796.4	5972.1
52.5°	4608.1	4615.4	4994.4	6245.3	7885.7	9564.8	10134.2	10110.2	8651.9	8275.1	5530.3
55°	2188.9	2162.7	2588.8	3524.6	5453.9	7736.0	8695.9	8968.1	8319.1	7898.2	5188.0
57.5°	637.5	650.1	839.5	1375.5	2728.0	4944.1	5955.3	6462.0	6828.4	6493.4	4024.0
60°	285.8	286.8	319.3	418.7	908.6	2299.9	3078.7	3705.7	4082.6	3783.2	1996.3
62.5°	207.3	208.3	220.9	236.6	308.8	778.8	1154.6	1538.8	1567.1	1025.9	505.6
65°	172.7	172.7	174.8	174.8	185.3	278.5	350.7	452.2	381.0	282.6	197.8
67.5°	139.2	140.3	142.4	142.4	139.2	139.2	150.7	165.4	176.9	218.8	182.1
70°	108.9	107.8	107.8	108.9	105.7	90.0	97.4	111.0	121.4	170.6	158.1
72.5°	84.8	85.8	84.8	80.6	73.3	53.4	57.6	72.2	77.5	106.8	106.8
75°	63.9	64.9	60.7	46.1	30.4	16.7	22.0	35.6	45.0	52.3	38.7
77.5°	8.4	8.4	6.3	6.3	5.2	6.3	6.3	8.4	12.6	12.6	9.4
80°	1.0	1.0	1.0	2.1	3.1	4.2	4.2	4.2	4.2	5.2	5.2
82.5°	1.0	1.0	1.0	1.0	3.1	3.1	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	1.0	2.1	3.1	3.1	4.2	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	1.0	2.1	3.1	3.1	3.1	4.2	4.2	4.2
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°	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0	3332.0
2.5°	3337.3	3276.5	3203.3	3153.0	3081.8	3034.7	2967.7	2922.7	2884.0	2853.6	2870.4
5°	3338.3	3242.0	3092.3	2964.6	2825.4	2697.6	2560.5	2452.7	2355.3	2311.4	2335.4
7.5°	3359.2	3221.1	2991.8	2764.6	2497.7	2233.9	1986.9	1785.9	1686.4	1639.3	1654.0
10°	3400.1	3211.6	2879.8	2502.9	2069.6	1709.5	1469.7	1333.6	1278.2	1248.9	1254.1
12.5°	3437.7	3205.4	2734.3	2158.5	1633.0	1326.3	1201.7	1182.9	1194.4	1195.5	1194.4
15°	3489.0	3193.8	2554.2	1804.7	1306.4	1146.3	1149.4	1176.6	1203.8	1212.2	1210.1
17.5°	3543.5	3176.0	2321.8	1465.5	1108.6	1093.9	1130.6	1167.2	1194.4	1198.6	1199.7
20°	3600.0	3139.4	2057.0	1196.5	1016.5	1054.1	1095.0	1122.2	1142.1	1148.4	1150.5
22.5°	3626.2	3061.9	1751.3	1003.9	954.7	1004.9	1035.3	1070.9	1077.2	1054.1	1058.3
25°	3612.6	2931.1	1453.0	874.1	892.9	943.2	988.2	970.4	944.2	927.5	932.7
27.5°	3569.6	2757.3	1160.9	778.8	827.0	890.8	896.1	876.2	872.0	858.4	862.6
30°	3523.6	2557.4	933.8	702.4	760.0	827.0	811.3	818.6	819.7	804.0	809.2
32.5°	3495.3	2348.0	743.2	651.1	717.1	729.6	761.0	775.7	776.7	740.1	746.4
35°	3504.7	2141.8	629.1	609.2	677.3	674.1	718.1	726.5	665.8	615.5	620.8
37.5°	3581.2	1951.3	564.2	576.8	608.2	632.3	665.8	610.3	596.7	573.7	576.8
40°	3723.5	1789.0	525.5	556.9	561.1	599.8	548.5	555.9	556.9	542.3	545.4
42.5°	3890.0	1654.0	502.5	545.4	534.9	541.2	489.9	504.6	520.3	514.0	515.0
45°	3973.7	1522.1	482.6	505.6	508.8	449.1	437.6	453.3	473.2	476.3	477.3
47.5°	3899.4	1396.5	461.6	448.0	469.0	409.3	395.7	400.9	424.0	436.5	438.6
50°	3672.2	1252.0	430.2	396.7	385.2	367.4	354.9	355.9	382.1	404.1	408.3
52.5°	3353.0	1101.3	378.9	336.0	309.9	323.5	326.6	320.3	344.4	366.4	370.6
55°	3043.1	912.8	300.4	273.2	249.1	278.5	286.8	278.5	285.8	300.4	301.5
57.5°	2142.8	516.1	230.3	226.1	206.2	238.7	252.3	239.7	227.2	236.6	238.7
60°	993.4	270.1	176.9	176.9	171.7	205.2	228.2	210.4	186.3	190.5	193.7
62.5°	310.9	170.6	129.8	122.5	140.3	174.8	193.7	175.9	147.6	147.6	151.8
65°	175.9	146.6	102.6	94.2	114.1	140.3	151.8	132.9	107.8	105.7	105.7
67.5°	163.3	139.2	91.1	76.4	80.6	90.0	94.2	81.7	74.3	73.3	74.3
70°	135.0	116.2	73.3	52.3	49.2	48.2	50.2	47.1	45.0	46.1	49.2
72.5°	83.7	70.1	46.1	31.4	27.2	26.2	26.2	26.2	25.1	25.1	25.1
75°	30.4	26.2	20.9	15.7	13.6	12.6	12.6	13.6	12.6	11.5	10.5
77.5°	9.4	8.4	8.4	8.4	7.3	6.3	5.2	5.2	4.2	3.1	3.1
80°	5.2	5.2	5.2	5.2	4.2	4.2	3.1	2.1	1.0	1.0	0.0
82.5°	5.2	5.2	5.2	4.2	4.2	4.2	3.1	2.1	1.0	0.0	0.0
85°	4.2	4.2	4.2	4.2	4.2	4.2	3.1	2.1	1.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.1	2.1	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)