

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: P639012

Luminaire Tested: GWS-SA5B-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639012  
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-SA5B-722-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

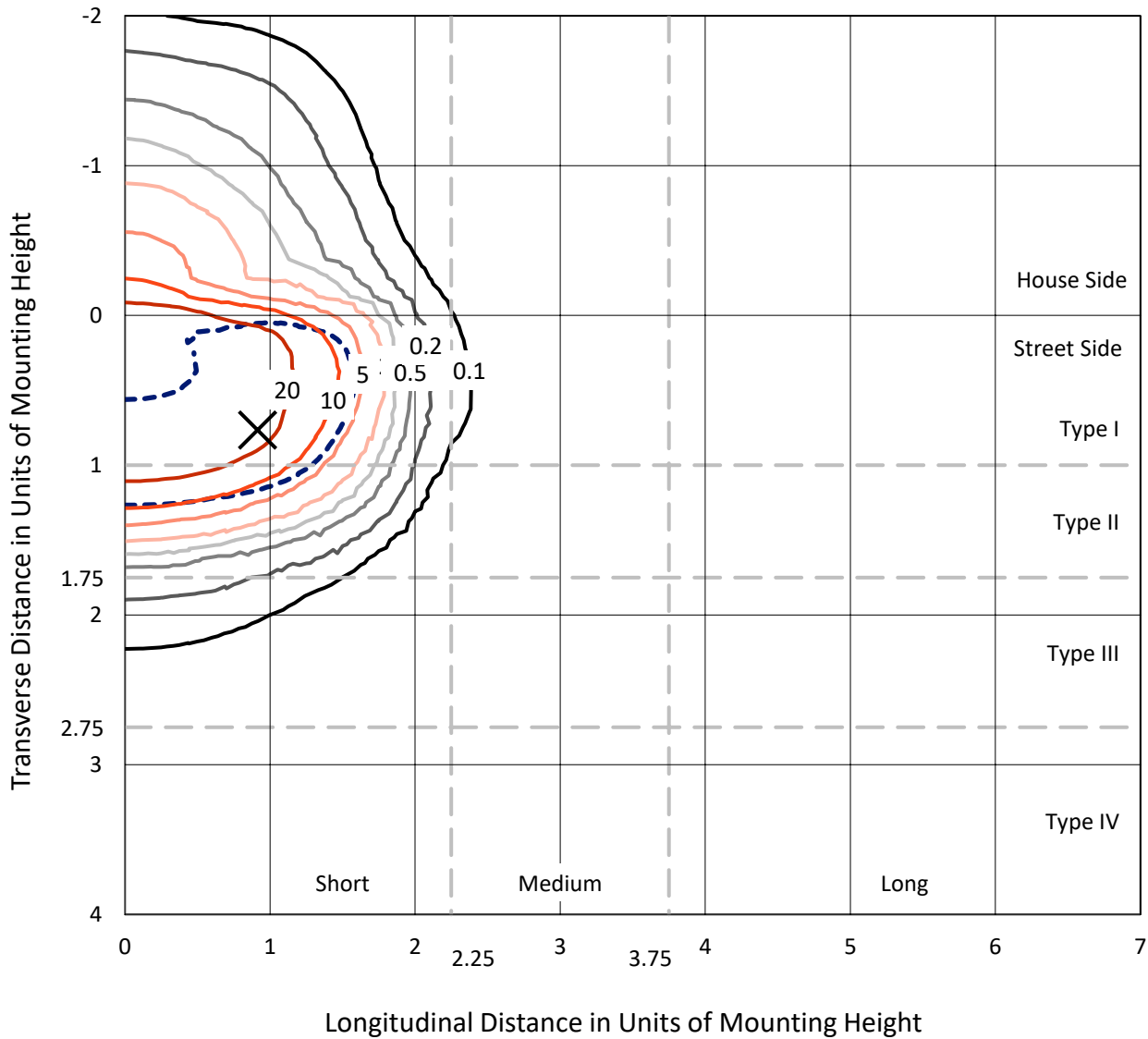
Lumens per Lamp: N/A  
Luminaire Lumens: 9850.3 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

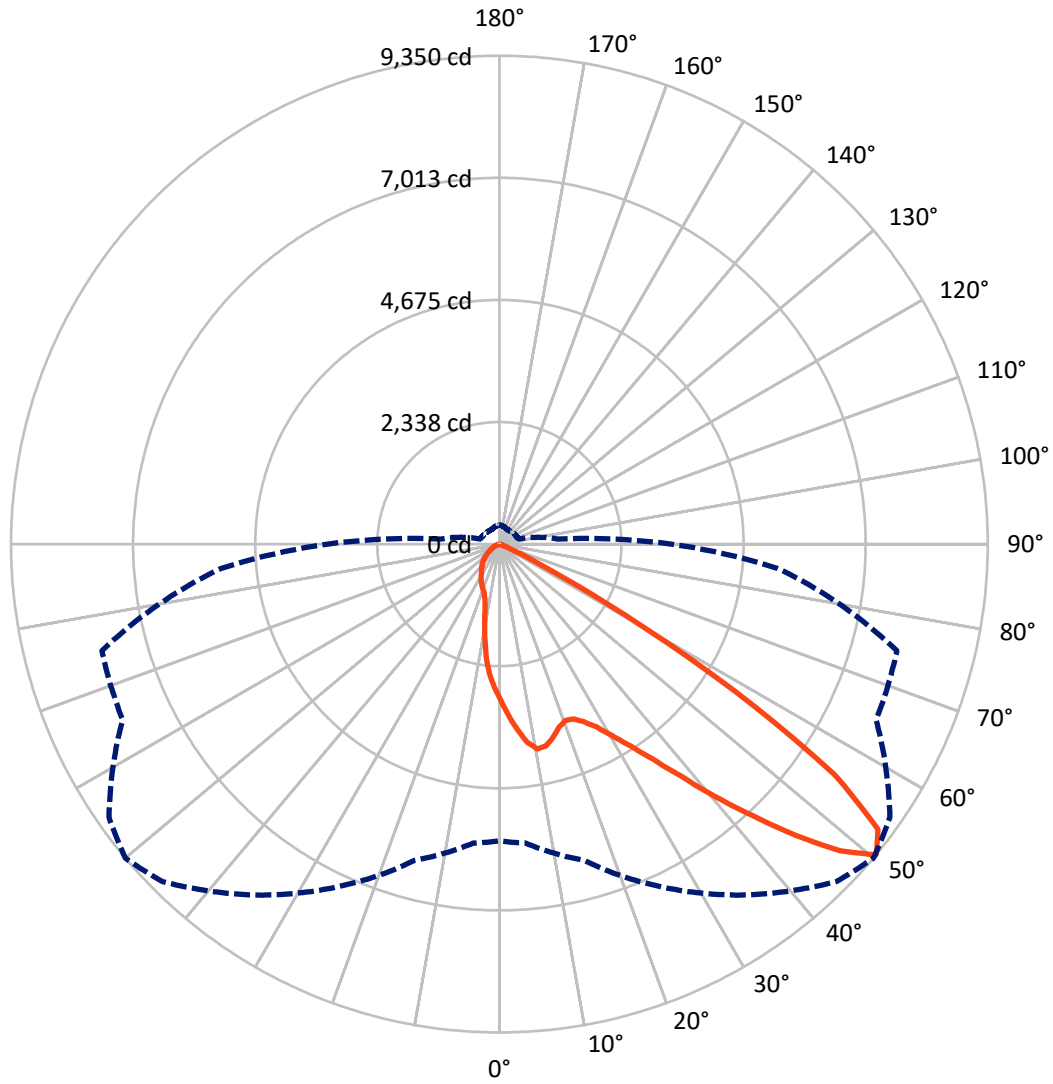
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 38.2 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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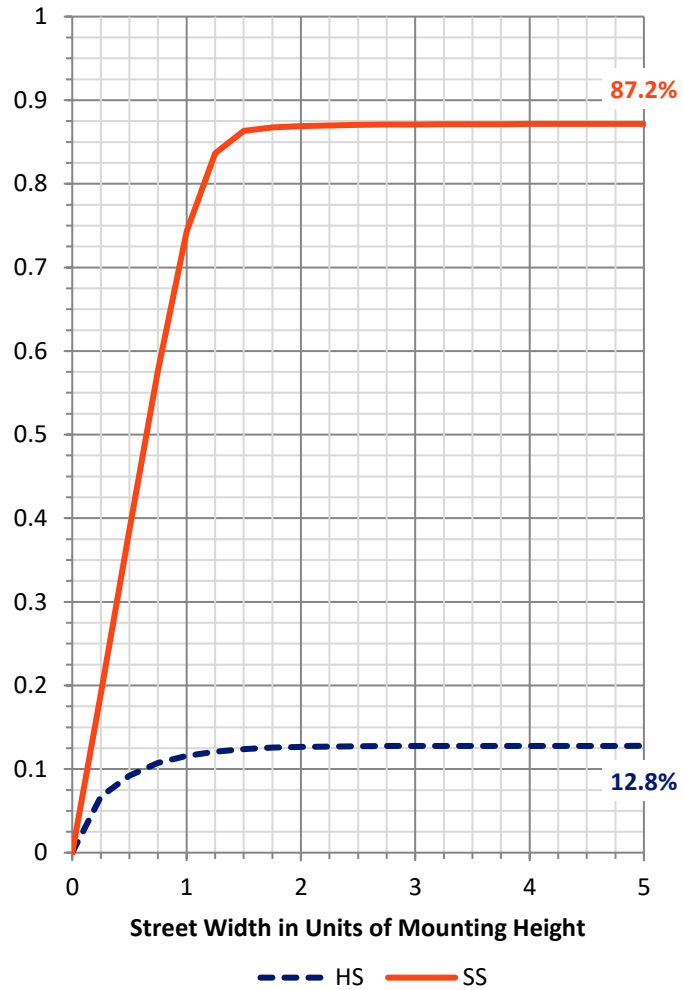
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1265.6	0.0	1265.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	8584.7	0.0	8584.7
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	9850.3	0.0	9850.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.8	2.8
10°-20°	714.3	7.3
20°-30°	1178.8	12.0
30°-40°	1945.2	19.7
40°-50°	3077.8	31.2
50°-60°	2330.3	23.7
60°-70°	291.6	3.0
70°-80°	33.0	0.3
80°-90°	2.5	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°	9850.3	100.0
0°-180°	9850.3	100.0

**Coefficient of Utilization**



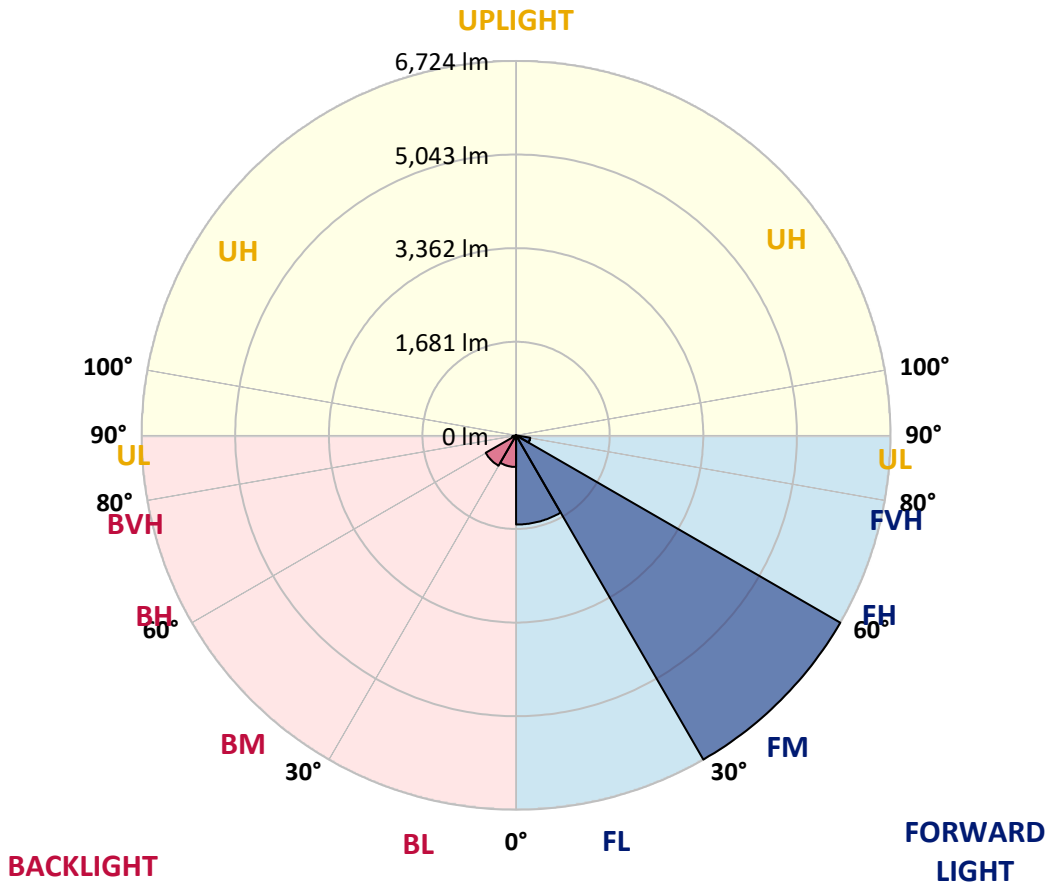
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.8	16.3			
FM (30°-60°)	6723.9	68.3			
FH (60°-80°)	257.8	2.6			G0/660
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	568.1	5.8	B2/1000		
BM (30°-60°)	629.4	6.4	B1/1000		
BH (60°-80°)	66.8	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°	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2
2.5°	3400.5	3427.7	3420.2	3384.6	3346.1	3319.0	3276.8	3263.6	3168.0	3101.4	3031.1
5°	3811.2	3819.6	3810.2	3767.1	3699.6	3634.9	3565.5	3525.2	3364.9	3220.5	3073.3
7.5°	3909.6	3899.3	3917.1	3938.7	3929.3	3901.2	3828.1	3784.0	3592.7	3357.4	3134.3
10°	3602.1	3578.7	3645.2	3756.8	3874.0	4006.2	3987.4	3991.2	3814.9	3529.9	3214.0
12.5°	3194.3	3184.9	3234.6	3364.0	3593.7	3893.7	3965.9	4086.8	4018.4	3716.5	3304.9
15°	3015.2	3019.9	3049.9	3131.4	3296.5	3669.6	3843.1	4061.5	4200.3	3897.4	3405.2
17.5°	3042.4	3059.3	3058.3	3085.5	3185.8	3484.9	3687.4	3981.8	4340.9	4105.6	3520.5
20°	3227.1	3244.0	3218.6	3198.0	3231.8	3438.0	3605.9	3901.2	4435.6	4315.6	3642.4
22.5°	3503.7	3523.3	3463.3	3404.3	3382.7	3514.9	3636.8	3868.4	4507.8	4507.8	3751.2
25°	3838.4	3865.6	3772.7	3667.7	3607.7	3677.1	3769.0	3942.4	4581.8	4680.3	3825.2
27.5°	4212.5	4213.4	4133.7	4015.6	3903.1	3911.5	3966.8	4109.3	4663.4	4865.9	3883.4
30°	4633.4	4636.2	4530.3	4388.7	4247.1	4208.7	4255.6	4363.4	4833.1	5099.4	3964.0
32.5°	5177.2	5190.3	5038.4	4830.3	4646.5	4574.3	4601.5	4715.0	5103.1	5391.9	4084.9
35°	5912.2	5926.3	5702.2	5427.5	5135.0	5026.3	5053.4	5167.8	5494.1	5807.2	4278.1
37.5°	6637.9	6656.7	6429.8	6173.8	5772.5	5592.5	5620.7	5729.4	6081.0	6381.0	4587.5
40°	7139.5	7164.8	7094.5	6922.0	6549.8	6313.5	6347.3	6386.6	6727.0	7067.3	4988.7
42.5°	7403.9	7439.5	7469.5	7557.7	7361.7	7163.9	7106.7	7109.5	7384.2	7766.7	5406.0
45°	7419.8	7454.5	7608.3	7948.6	8097.7	8056.4	7952.4	7882.1	7885.8	8232.7	5666.6
47.5°	6904.2	6968.9	7256.7	7923.3	8484.0	8826.2	8773.7	8606.8	8096.8	8263.6	5638.5
50°	5682.5	5746.3	6269.5	7228.6	8202.7	9133.7	9350.3	9126.2	7958.9	7878.3	5348.8
52.5°	4127.1	4133.7	4473.1	5593.5	7062.6	8566.5	9076.5	9054.9	7748.9	7411.4	4953.1
55°	1960.4	1937.0	2318.6	3156.8	4884.7	6928.6	7788.3	8032.1	7450.8	7073.9	4646.5
57.5°	571.0	582.2	751.9	1232.0	2443.3	4428.1	5333.8	5787.5	6115.7	5815.7	3604.0
60°	256.0	256.9	286.0	375.0	813.8	2059.8	2757.4	3319.0	3656.5	3388.3	1787.9
62.5°	185.6	186.6	197.8	211.9	276.6	697.5	1034.1	1378.2	1403.5	918.8	452.8
65°	154.7	154.7	156.6	156.6	165.9	249.4	314.1	405.0	341.3	253.1	177.2
67.5°	124.7	125.6	127.5	127.5	124.7	124.7	135.0	148.1	158.4	195.9	163.1
70°	97.5	96.6	96.6	97.5	94.7	80.6	87.2	99.4	108.8	152.8	141.6
72.5°	75.9	76.9	75.9	72.2	65.6	47.8	51.6	64.7	69.4	95.6	95.6
75°	57.2	58.1	54.4	41.3	27.2	15.0	19.7	31.9	40.3	46.9	34.7
77.5°	7.5	7.5	5.6	5.6	4.7	5.6	5.6	7.5	11.3	11.3	8.4
80°	0.9	0.9	0.9	1.9	2.8	3.8	3.8	3.8	3.8	4.7	4.7
82.5°	0.9	0.9	0.9	0.9	2.8	2.8	3.8	3.8	3.8	3.8	3.8
85°	0.0	0.0	0.0	0.9	1.9	2.8	2.8	3.8	3.8	3.8	3.8
87.5°	0.0	0.0	0.0	0.9	1.9	2.8	2.8	2.8	3.8	3.8	3.8
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°	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2	2984.2
2.5°	2988.9	2934.6	2868.9	2823.9	2760.2	2718.0	2658.0	2617.7	2583.0	2555.8	2570.8
5°	2989.9	2903.6	2769.5	2655.2	2530.5	2416.1	2293.3	2196.7	2109.5	2070.1	2091.7
7.5°	3008.6	2884.9	2679.5	2476.1	2237.0	2000.8	1779.5	1599.5	1510.4	1468.2	1481.3
10°	3045.2	2876.4	2579.2	2241.7	1853.6	1531.0	1316.3	1194.4	1144.8	1118.5	1123.2
12.5°	3078.9	2870.8	2448.9	1933.2	1462.6	1187.9	1076.3	1059.4	1069.8	1070.7	1069.8
15°	3124.9	2860.5	2287.6	1616.4	1170.1	1026.6	1029.4	1053.8	1078.2	1085.7	1083.8
17.5°	3173.6	2844.6	2079.5	1312.6	992.9	979.7	1012.6	1045.4	1069.8	1073.5	1074.4
20°	3224.3	2811.7	1842.3	1071.6	910.4	944.1	980.7	1005.1	1022.9	1028.5	1030.4
22.5°	3247.7	2742.4	1568.5	899.1	855.1	900.1	927.2	959.1	964.7	944.1	947.9
25°	3235.5	2625.2	1301.3	782.9	799.7	844.7	885.1	869.1	845.7	830.7	835.4
27.5°	3197.1	2469.5	1039.8	697.5	740.7	797.9	802.6	784.7	781.0	768.8	772.5
30°	3155.8	2290.5	836.3	629.1	680.7	740.7	726.6	733.2	734.1	720.0	724.7
32.5°	3130.5	2102.9	665.7	583.2	642.2	653.5	681.6	694.7	695.7	662.9	668.5
35°	3138.9	1918.2	563.5	545.7	606.6	603.8	643.2	650.7	596.3	551.3	556.0
37.5°	3207.4	1747.6	505.3	516.6	544.7	566.3	596.3	546.6	534.4	513.8	516.6
40°	3334.9	1602.3	470.7	498.8	502.5	537.2	491.3	497.8	498.8	485.7	488.5
42.5°	3484.0	1481.3	450.0	488.5	479.1	484.7	438.8	451.9	466.0	460.3	461.3
45°	3559.0	1363.2	432.2	452.8	455.7	402.2	391.9	406.0	423.8	426.6	427.5
47.5°	3492.4	1250.7	413.5	401.3	420.0	366.6	354.4	359.1	379.7	391.0	392.8
50°	3289.0	1121.3	385.3	355.3	345.0	329.1	317.8	318.8	342.2	361.9	365.6
52.5°	3003.0	986.3	339.4	301.0	277.5	289.7	292.5	286.9	308.5	328.1	331.9
55°	2725.5	817.6	269.1	244.7	223.1	249.4	256.9	249.4	256.0	269.1	270.0
57.5°	1919.2	462.2	206.3	202.5	184.7	213.8	226.0	214.7	203.5	211.9	213.8
60°	889.7	241.9	158.4	158.4	153.8	183.8	204.4	188.4	166.9	170.6	173.4
62.5°	278.5	152.8	116.3	109.7	125.6	156.6	173.4	157.5	132.2	132.2	135.9
65°	157.5	131.3	91.9	84.4	102.2	125.6	135.9	119.1	96.6	94.7	94.7
67.5°	146.3	124.7	81.6	68.4	72.2	80.6	84.4	73.1	66.6	65.6	66.6
70°	120.9	104.1	65.6	46.9	44.1	43.1	45.0	42.2	40.3	41.3	44.1
72.5°	75.0	62.8	41.3	28.1	24.4	23.4	23.4	23.4	22.5	22.5	22.5
75°	27.2	23.4	18.8	14.1	12.2	11.3	11.3	12.2	11.3	10.3	9.4
77.5°	8.4	7.5	7.5	7.5	6.6	5.6	4.7	4.7	3.8	2.8	2.8
80°	4.7	4.7	4.7	4.7	3.8	3.8	2.8	1.9	0.9	0.9	0.0
82.5°	4.7	4.7	4.7	3.8	3.8	3.8	2.8	1.9	0.9	0.0	0.0
85°	3.8	3.8	3.8	3.8	3.8	3.8	2.8	1.9	0.9	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.8	1.9	0.9	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)