

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: P633237

Luminaire Tested: GWS-SA2E-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633237  
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-SA2E-735-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

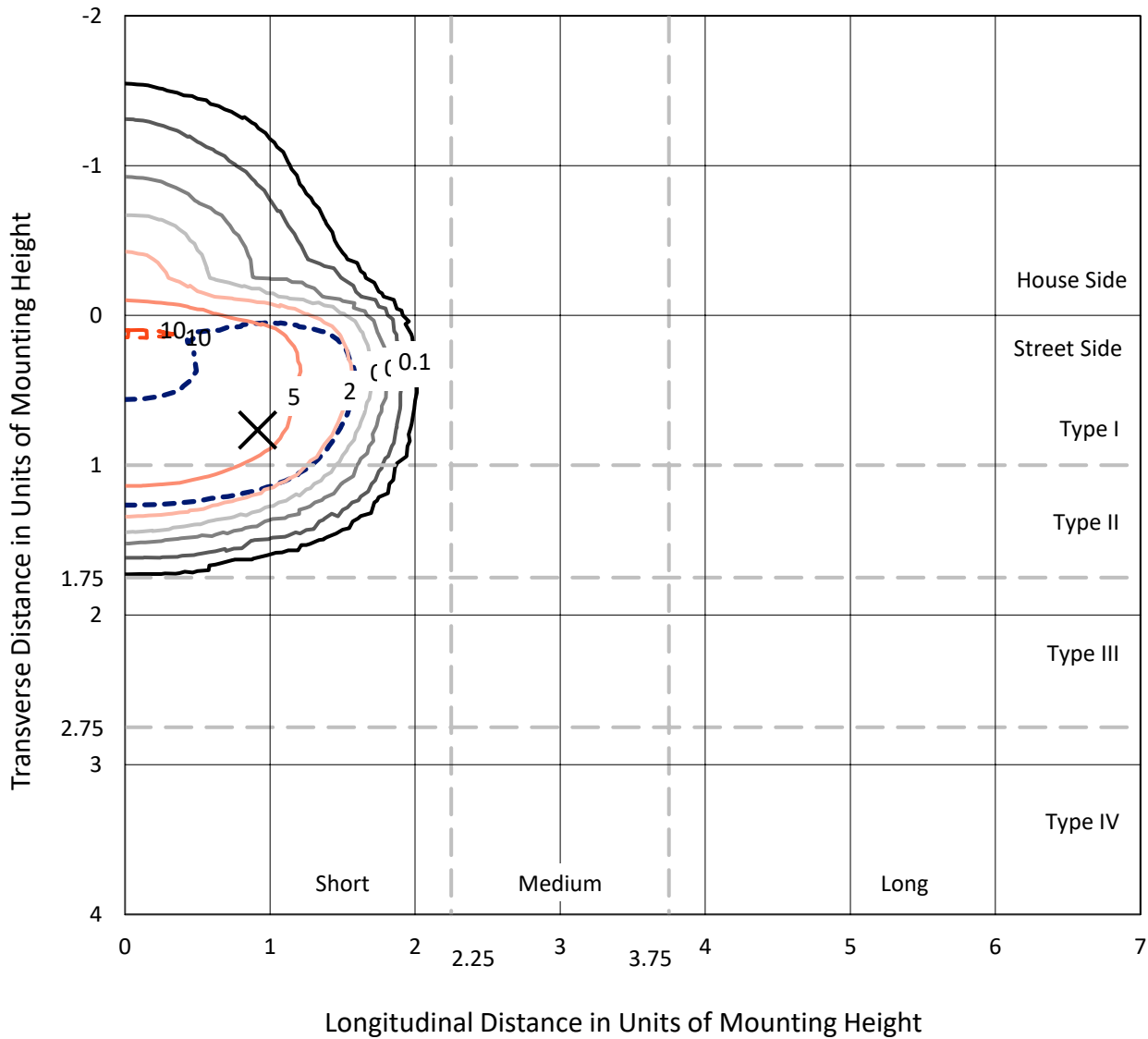
Lumens per Lamp: N/A  
Luminaire Lumens: 10838.6 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

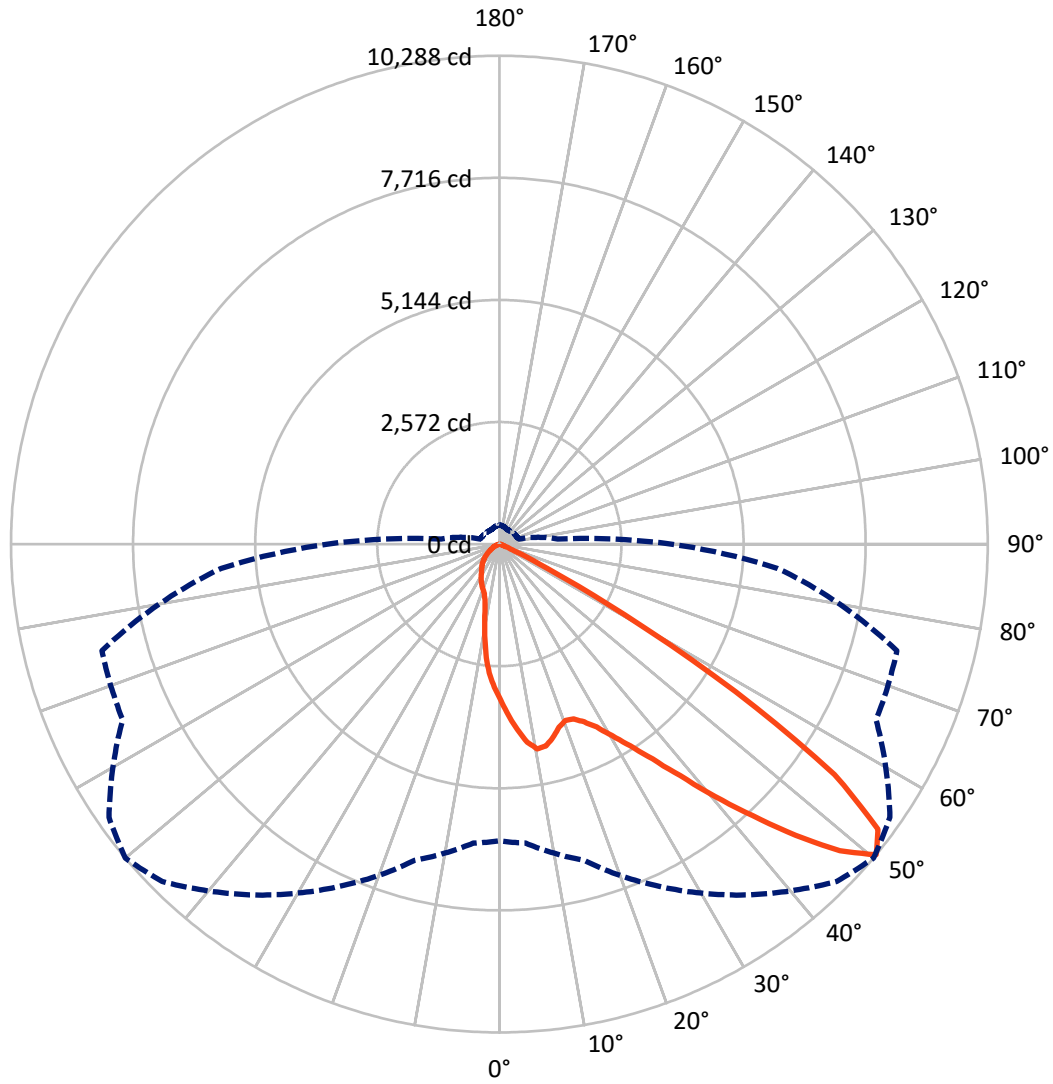
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 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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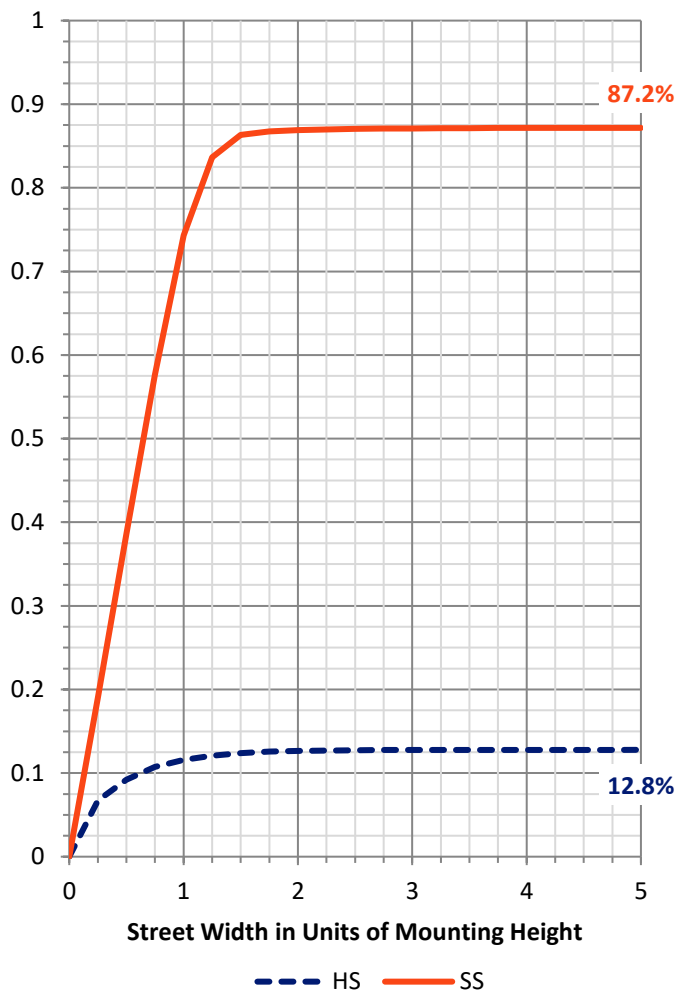
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1392.6	0.0	1392.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	9446.0	0.0	9446.0
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	10838.6	0.0	10838.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.6	2.8
10°-20°	785.9	7.3
20°-30°	1297.0	12.0
30°-40°	2140.4	19.7
40°-50°	3386.6	31.2
50°-60°	2564.1	23.7
60°-70°	320.9	3.0
70°-80°	36.3	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°	10838.6	100.0
0°-180°	10838.6	100.0

**Coefficient of Utilization**



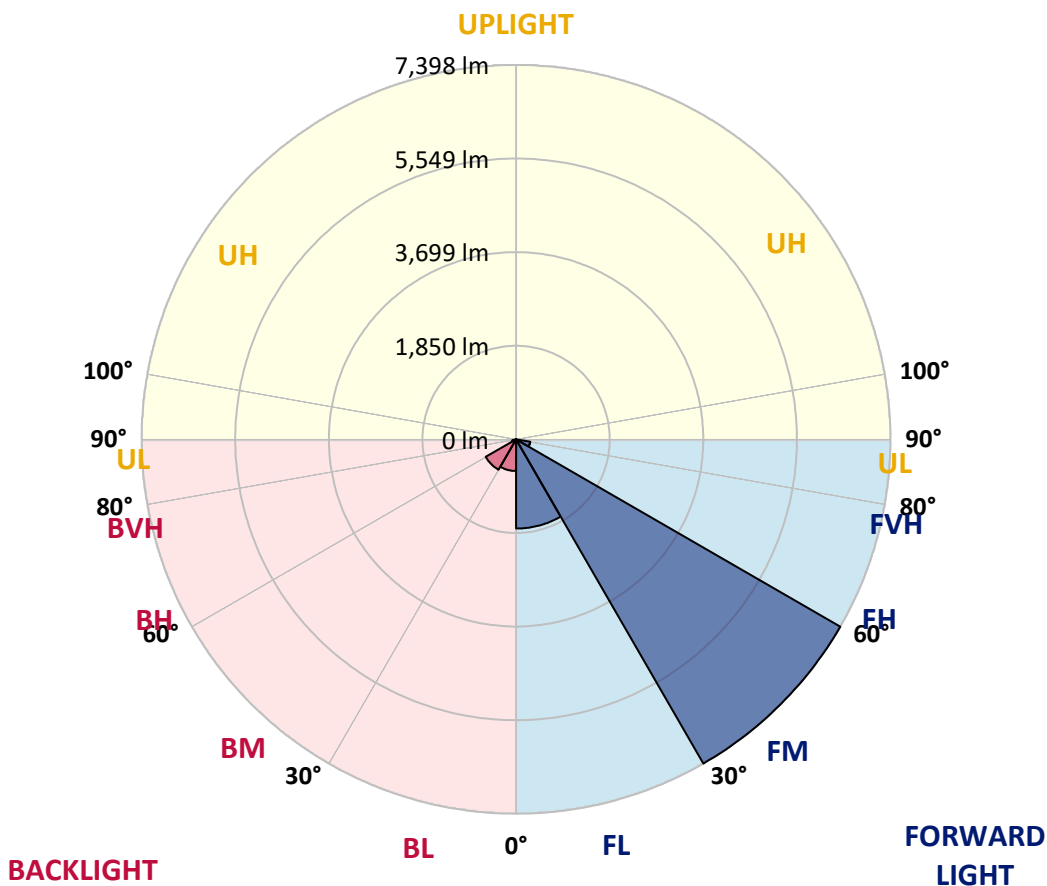
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.5	16.3			
FM (30°-60°)	7398.5	68.3			
FH (60°-80°)	283.7	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	625.1	5.8	B2/1000		
BM (30°-60°)	692.6	6.4	B1/1000		
BH (60°-80°)	73.5	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°	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7
2.5°	3741.7	3771.6	3763.4	3724.2	3681.9	3652.0	3605.5	3591.1	3485.9	3412.6	3335.2
5°	4193.6	4202.8	4192.5	4145.1	4070.8	3999.6	3923.3	3878.9	3702.5	3543.6	3381.7
7.5°	4301.9	4290.5	4310.1	4333.9	4323.5	4292.6	4212.1	4163.6	3953.2	3694.3	3448.7
10°	3963.5	3937.7	4011.0	4133.7	4262.7	4408.1	4387.5	4391.6	4197.7	3884.1	3536.4
12.5°	3514.7	3504.4	3559.1	3701.5	3954.2	4284.3	4363.8	4496.9	4421.5	4089.4	3636.5
15°	3317.7	3322.9	3355.9	3445.6	3627.2	4037.8	4228.6	4469.0	4621.7	4288.5	3746.9
17.5°	3347.6	3366.2	3365.2	3395.1	3505.5	3834.6	4057.4	4381.3	4776.4	4517.5	3873.8
20°	3550.9	3569.4	3541.6	3518.9	3556.0	3783.0	3967.6	4292.6	4880.6	4748.6	4007.9
22.5°	3855.2	3876.8	3810.8	3745.8	3722.1	3867.6	4001.7	4256.5	4960.1	4960.1	4127.5
25°	4223.5	4253.4	4151.3	4035.7	3969.7	4046.0	4147.1	4338.0	5041.6	5149.9	4209.0
27.5°	4635.1	4636.1	4548.4	4418.5	4294.7	4303.9	4364.8	4521.6	5131.3	5354.1	4273.0
30°	5098.3	5101.4	4984.8	4829.0	4673.3	4631.0	4682.5	4801.2	5318.0	5611.0	4361.7
32.5°	5696.6	5711.1	5544.0	5314.9	5112.7	5033.3	5063.2	5188.0	5615.1	5932.9	4494.8
35°	6505.4	6520.9	6274.3	5972.1	5650.2	5530.5	5560.5	5686.3	6045.3	6389.9	4707.3
37.5°	7303.9	7324.5	7074.9	6793.3	6351.7	6153.6	6184.6	6304.3	6691.1	7021.2	5047.7
40°	7855.8	7883.7	7806.3	7616.5	7206.9	6947.0	6984.1	7027.4	7401.9	7776.4	5489.3
42.5°	8146.7	8186.0	8219.0	8315.9	8100.3	7882.7	7819.7	7822.8	8125.1	8546.0	5948.4
45°	8164.3	8202.5	8371.6	8746.1	8910.2	8864.8	8750.2	8672.9	8677.0	9058.7	6235.1
47.5°	7596.9	7668.1	7984.8	8718.3	9335.2	9711.7	9654.0	9470.3	8909.1	9092.7	6204.2
50°	6252.7	6322.8	6898.5	7953.8	9025.7	10050.1	10288.4	10041.8	8757.5	8668.8	5885.4
52.5°	4541.2	4548.4	4921.9	6154.7	7771.2	9426.0	9987.2	9963.4	8526.4	8155.0	5450.1
55°	2157.1	2131.3	2551.2	3473.5	5374.8	7623.7	8569.7	8837.9	8198.3	7783.6	5112.7
57.5°	628.3	640.6	827.4	1355.6	2688.4	4872.4	5868.9	6368.2	6729.3	6399.2	3965.6
60°	281.6	282.7	314.6	412.7	895.5	2266.5	3034.0	3652.0	4023.3	3728.3	1967.3
62.5°	204.3	205.3	217.7	233.1	304.3	767.5	1137.9	1516.5	1544.3	1011.0	498.3
65°	170.2	170.2	172.3	172.3	182.6	274.4	345.6	445.7	375.5	278.5	195.0
67.5°	137.2	138.2	140.3	140.3	137.2	137.2	148.6	163.0	174.3	215.6	179.5
70°	107.3	106.3	106.3	107.3	104.2	88.7	95.9	109.4	119.7	168.2	155.8
72.5°	83.6	84.6	83.6	79.4	72.2	52.6	56.7	71.2	76.3	105.2	105.2
75°	62.9	64.0	59.8	45.4	29.9	16.5	21.7	35.1	44.4	51.6	38.2
77.5°	8.3	8.3	6.2	6.2	5.2	6.2	6.2	8.3	12.4	12.4	9.3
80°	1.0	1.0	1.0	2.1	3.1	4.1	4.1	4.1	4.1	5.2	5.2
82.5°	1.0	1.0	1.0	1.0	3.1	3.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	1.0	2.1	3.1	3.1	4.1	4.1	4.1	4.1
87.5°	0.0	0.0	0.0	1.0	2.1	3.1	3.1	3.1	4.1	4.1	4.1
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°	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7	3283.7
2.5°	3288.8	3229.0	3156.8	3107.3	3037.1	2990.7	2924.7	2880.3	2842.1	2812.2	2828.7
5°	3289.9	3194.9	3047.4	2921.6	2784.4	2658.5	2523.4	2417.1	2321.2	2277.8	2301.6
7.5°	3310.5	3174.3	2948.4	2724.5	2461.5	2201.5	1958.0	1760.0	1661.9	1615.5	1630.0
10°	3350.7	3165.0	2838.0	2466.6	2039.5	1684.6	1448.4	1314.3	1259.6	1230.7	1235.9
12.5°	3387.9	3158.8	2694.6	2127.2	1609.3	1307.1	1184.3	1165.7	1177.1	1178.1	1177.1
15°	3438.4	3147.5	2517.2	1778.5	1287.5	1129.6	1132.7	1159.5	1186.4	1194.6	1192.6
17.5°	3492.1	3130.0	2288.1	1444.3	1092.5	1078.0	1114.2	1150.3	1177.1	1181.2	1182.2
20°	3547.8	3093.8	2027.1	1179.1	1001.7	1038.8	1079.1	1105.9	1125.5	1131.7	1133.8
22.5°	3573.6	3017.5	1725.9	989.3	940.8	990.4	1020.3	1055.4	1061.5	1038.8	1043.0
25°	3560.1	2888.6	1431.9	861.4	880.0	929.5	973.9	956.3	930.5	914.0	919.2
27.5°	3517.8	2717.3	1144.1	767.5	815.0	877.9	883.1	863.5	859.3	845.9	850.1
30°	3472.5	2520.3	920.2	692.2	749.0	815.0	799.5	806.7	807.8	792.3	797.4
32.5°	3444.6	2313.9	732.5	641.7	706.7	719.0	750.0	764.4	765.5	729.4	735.5
35°	3453.9	2110.7	620.0	600.4	667.5	664.4	707.7	715.9	656.1	606.6	611.8
37.5°	3529.2	1923.0	556.0	568.4	599.4	623.1	656.1	601.4	588.0	565.3	568.4
40°	3669.5	1763.0	517.9	548.8	553.0	591.1	540.6	547.8	548.8	534.4	537.5
42.5°	3833.5	1630.0	495.2	537.5	527.2	533.4	482.8	497.2	512.7	506.5	507.6
45°	3916.1	1500.0	475.6	498.3	501.4	442.6	431.2	446.7	466.3	469.4	470.4
47.5°	3842.8	1376.2	454.9	441.5	462.2	403.4	390.0	395.1	417.8	430.2	432.3
50°	3618.9	1233.8	424.0	391.0	379.6	362.1	349.7	350.8	376.5	398.2	402.3
52.5°	3304.3	1085.3	373.4	331.2	305.4	318.8	321.9	315.7	339.4	361.1	365.2
55°	2998.9	899.6	296.1	269.3	245.5	274.4	282.7	274.4	281.6	296.1	297.1
57.5°	2111.7	508.6	227.0	222.8	203.2	235.2	248.6	236.2	223.9	233.1	235.2
60°	979.0	266.2	174.3	174.3	169.2	202.2	224.9	207.4	183.6	187.8	190.9
62.5°	306.4	168.2	127.9	120.7	138.2	172.3	190.9	173.3	145.5	145.5	149.6
65°	173.3	144.4	101.1	92.8	112.4	138.2	149.6	131.0	106.3	104.2	104.2
67.5°	160.9	137.2	89.8	75.3	79.4	88.7	92.8	80.5	73.2	72.2	73.2
70°	133.1	114.5	72.2	51.6	48.5	47.5	49.5	46.4	44.4	45.4	48.5
72.5°	82.5	69.1	45.4	30.9	26.8	25.8	25.8	25.8	24.8	24.8	24.8
75°	29.9	25.8	20.6	15.5	13.4	12.4	12.4	13.4	12.4	11.3	10.3
77.5°	9.3	8.3	8.3	8.3	7.2	6.2	5.2	5.2	4.1	3.1	3.1
80°	5.2	5.2	5.2	5.2	4.1	4.1	3.1	2.1	1.0	1.0	0.0
82.5°	5.2	5.2	5.2	4.1	4.1	4.1	3.1	2.1	1.0	0.0	0.0
85°	4.1	4.1	4.1	4.1	4.1	4.1	3.1	2.1	1.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	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)