

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: P632797

Luminaire Tested: GWS-SA2D-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632797  
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

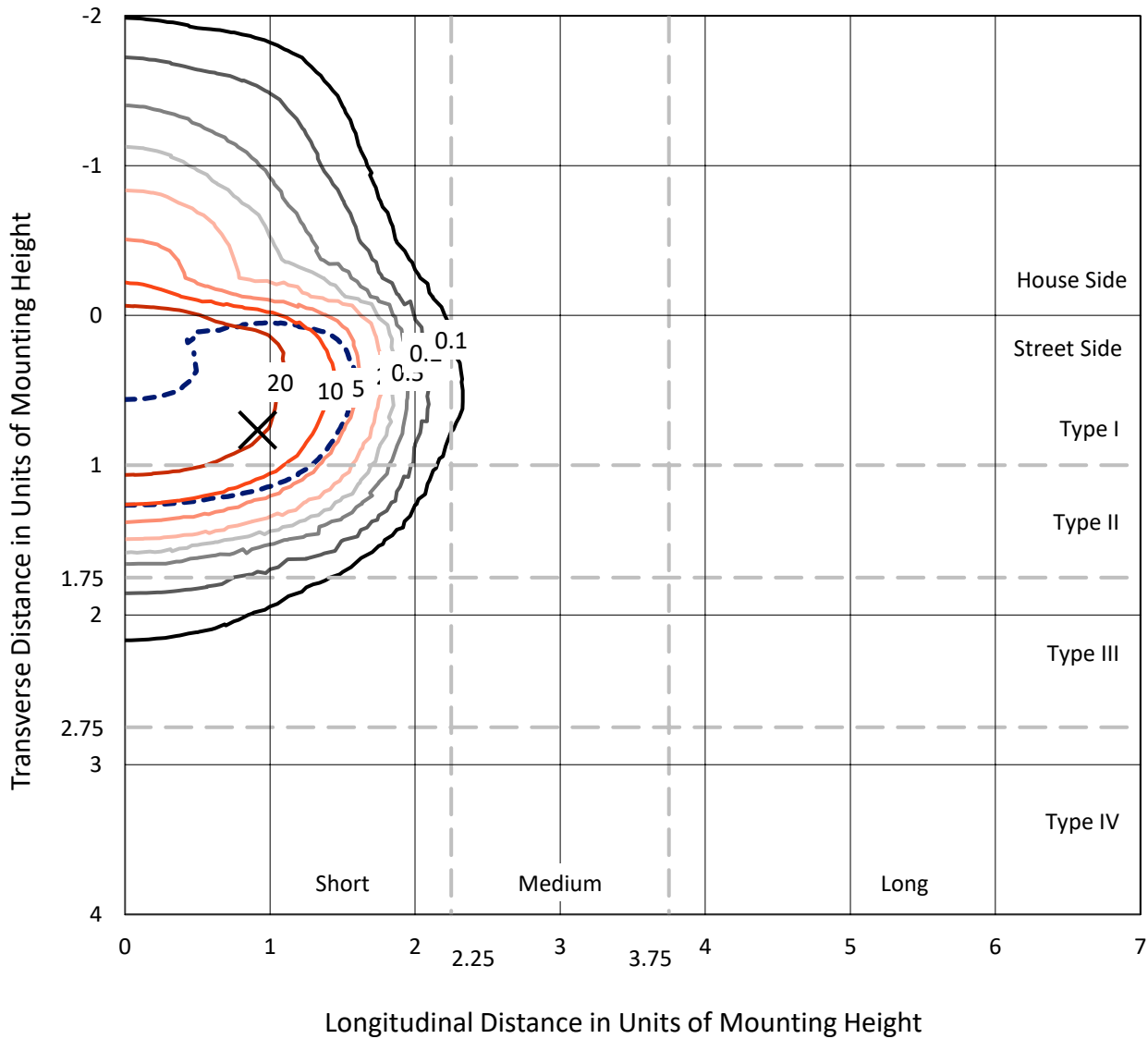
Lumens per Lamp: N/A  
Luminaire Lumens: 8793.8 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

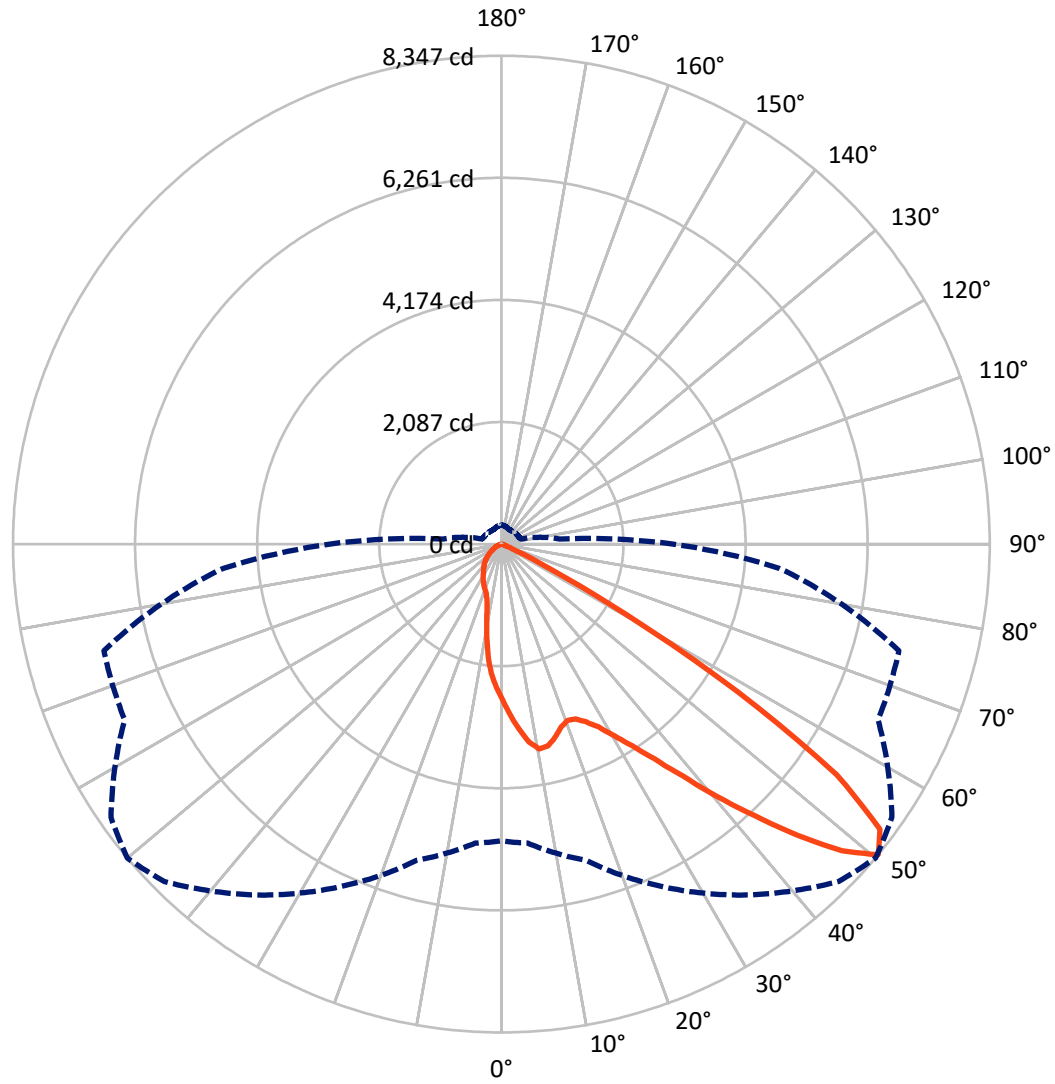
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.1 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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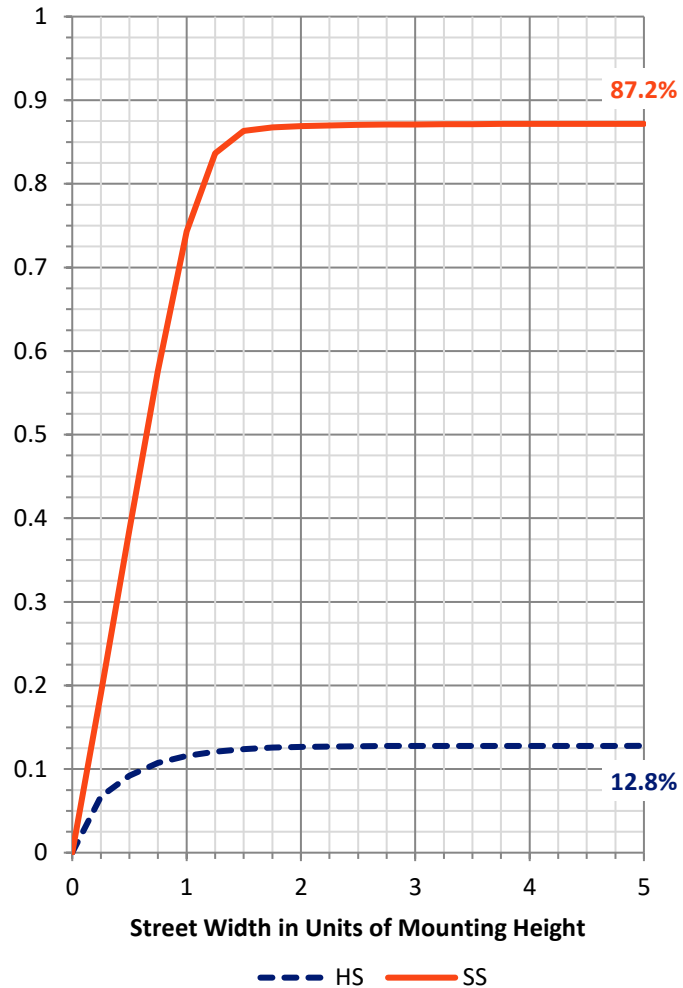
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1129.9	0.0	1129.9
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	7663.9	0.0	7663.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	8793.8	0.0	8793.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.1	2.8
10°-20°	637.6	7.3
20°-30°	1052.3	12.0
30°-40°	1736.6	19.7
40°-50°	2747.7	31.2
50°-60°	2080.3	23.7
60°-70°	260.4	3.0
70°-80°	29.4	0.3
80°-90°	2.2	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°	8793.8	100.0
0°-180°	8793.8	100.0

**Coefficient of Utilization**



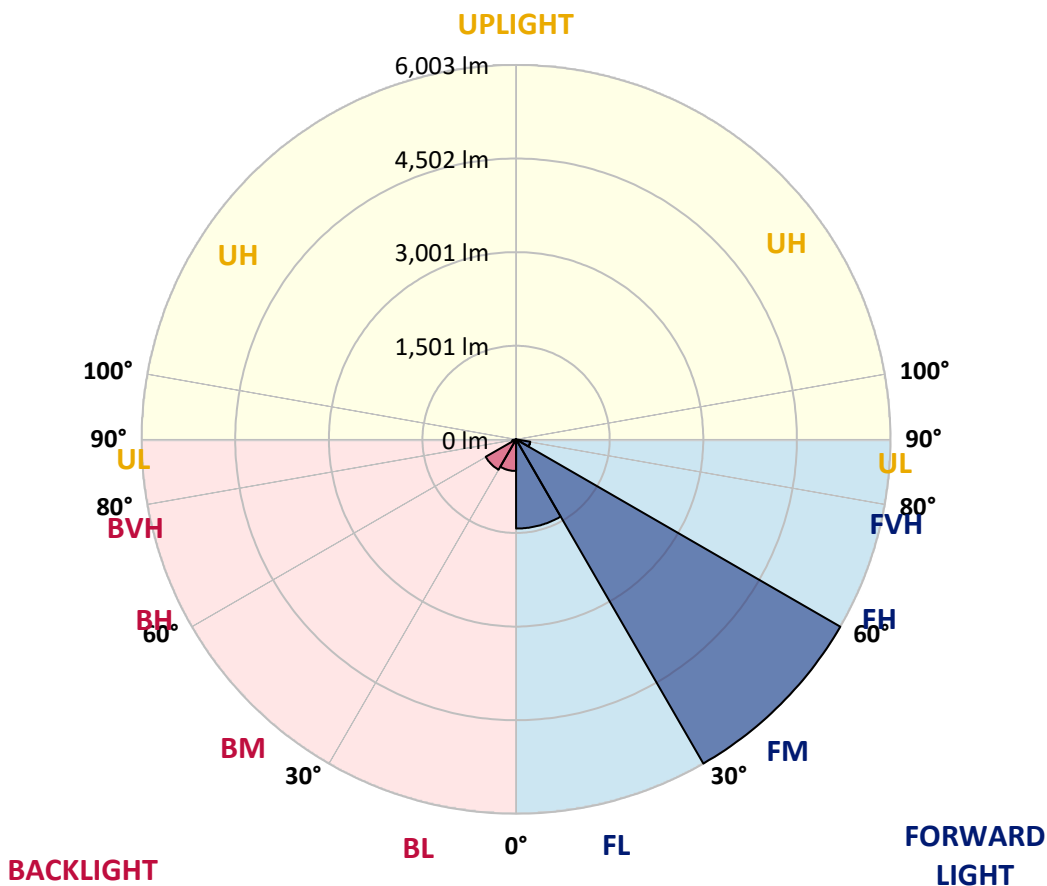
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.0	16.3			
FM (30°-60°)	6002.7	68.3			
FH (60°-80°)	230.2	2.6			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	507.1	5.8	B2/1000		
BM (30°-60°)	561.9	6.4	B1/1000		
BH (60°-80°)	59.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.2	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°	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2
2.5°	3035.8	3060.1	3053.4	3021.6	2987.3	2963.0	2925.3	2913.6	2828.2	2768.8	2706.0
5°	3402.4	3409.9	3401.6	3363.1	3302.8	3245.0	3183.1	3147.1	3004.0	2875.1	2743.7
7.5°	3490.3	3481.1	3497.0	3516.2	3507.9	3482.8	3417.5	3378.1	3207.4	2997.3	2798.1
10°	3215.8	3194.8	3254.3	3353.9	3458.5	3576.5	3559.8	3563.1	3405.8	3151.3	2869.2
12.5°	2851.7	2843.3	2887.7	3003.2	3208.2	3476.1	3540.5	3648.5	3587.4	3317.9	2950.4
15°	2691.8	2696.0	2722.8	2795.6	2942.9	3276.0	3430.9	3625.9	3749.8	3479.4	3040.0
17.5°	2716.1	2731.1	2730.3	2754.6	2844.1	3111.1	3291.9	3554.7	3875.3	3665.2	3142.9
20°	2881.0	2896.0	2873.4	2855.0	2885.1	3069.3	3219.1	3482.8	3959.8	3852.7	3251.7
22.5°	3127.9	3145.4	3091.9	3039.1	3019.9	3137.9	3246.7	3453.5	4024.3	4024.3	3348.8
25°	3426.7	3451.0	3368.1	3274.3	3220.8	3282.7	3364.7	3519.6	4090.4	4178.3	3415.0
27.5°	3760.6	3761.5	3690.3	3584.9	3484.4	3492.0	3541.3	3668.6	4163.2	4344.0	3466.9
30°	4136.5	4139.0	4044.4	3918.0	3791.6	3757.3	3799.1	3895.4	4314.7	4552.4	3538.8
32.5°	4621.9	4633.6	4498.0	4312.2	4148.2	4083.7	4108.0	4209.3	4555.8	4813.6	3646.8
35°	5278.1	5290.7	5090.6	4845.4	4584.3	4487.2	4511.4	4613.5	4904.8	5184.4	3819.2
37.5°	5926.0	5942.7	5740.1	5511.6	5153.4	4992.7	5017.8	5114.9	5428.8	5696.6	4095.4
40°	6373.8	6396.4	6333.6	6179.6	5847.3	5636.4	5666.5	5701.6	6005.5	6309.3	4453.7
42.5°	6609.8	6641.6	6668.4	6747.1	6572.1	6395.5	6344.5	6347.0	6592.2	6933.7	4826.1
45°	6624.0	6655.0	6792.3	7096.1	7229.2	7192.3	7099.4	7036.7	7040.0	7349.7	5058.8
47.5°	6163.7	6221.4	6478.4	7073.5	7574.0	7879.5	7832.6	7683.7	7228.3	7377.3	5033.7
50°	5073.1	5130.0	5597.0	6453.3	7322.9	8154.1	8347.4	8147.4	7105.3	7033.3	4775.1
52.5°	3684.5	3690.3	3993.3	4993.5	6305.1	7647.7	8103.0	8083.7	6917.8	6616.5	4421.9
55°	1750.2	1729.2	2069.9	2818.2	4360.8	6185.4	6953.0	7170.6	6651.6	6315.2	4148.2
57.5°	509.7	519.8	671.3	1099.8	2181.2	3953.2	4761.7	5166.8	5459.8	5191.9	3217.4
60°	228.5	229.3	255.3	334.8	726.5	1838.9	2461.6	2963.0	3264.3	3024.9	1596.2
62.5°	165.7	166.6	176.6	189.2	246.9	622.7	923.2	1230.4	1253.0	820.3	404.3
65°	138.1	138.1	139.8	139.8	148.1	222.6	280.4	361.6	304.7	226.0	158.2
67.5°	111.3	112.2	113.8	113.8	111.3	111.3	120.5	132.2	141.5	174.9	145.6
70°	87.0	86.2	86.2	87.0	84.5	72.0	77.8	88.7	97.1	136.4	126.4
72.5°	67.8	68.6	67.8	64.4	58.6	42.7	46.0	57.8	61.9	85.4	85.4
75°	51.1	51.9	48.5	36.8	24.3	13.4	17.6	28.5	36.0	41.9	31.0
77.5°	6.7	6.7	5.0	5.0	4.2	5.0	5.0	6.7	10.0	10.0	7.5
80°	0.8	0.8	0.8	1.7	2.5	3.3	3.3	3.3	3.3	4.2	4.2
82.5°	0.8	0.8	0.8	0.8	2.5	2.5	3.3	3.3	3.3	3.3	3.3
85°	0.0	0.0	0.0	0.8	1.7	2.5	2.5	3.3	3.3	3.3	3.3
87.5°	0.0	0.0	0.0	0.8	1.7	2.5	2.5	2.5	3.3	3.3	3.3
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°	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2
2.5°	2668.4	2619.8	2561.2	2521.0	2464.1	2426.5	2372.9	2336.9	2305.9	2281.7	2295.1
5°	2669.2	2592.2	2472.5	2370.4	2259.1	2156.9	2047.3	1961.1	1883.3	1848.1	1867.3
7.5°	2685.9	2575.4	2392.1	2210.5	1997.1	1786.2	1588.6	1427.9	1348.4	1310.7	1322.5
10°	2718.6	2567.9	2302.6	2001.3	1654.7	1366.8	1175.1	1066.3	1022.0	998.5	1002.7
12.5°	2748.7	2562.9	2186.2	1725.9	1305.7	1060.5	960.9	945.8	955.0	955.9	955.0
15°	2789.7	2553.7	2042.3	1443.0	1044.6	916.5	919.0	940.8	962.6	969.2	967.6
17.5°	2833.2	2539.5	1856.5	1171.8	886.4	874.7	904.0	933.3	955.0	958.4	959.2
20°	2878.4	2510.2	1644.7	956.7	812.7	842.9	875.5	897.3	913.2	918.2	919.9
22.5°	2899.4	2448.2	1400.3	802.7	763.3	803.5	827.8	856.3	861.3	842.9	846.2
25°	2888.5	2343.6	1161.8	698.9	714.0	754.1	790.1	775.9	755.0	741.6	745.8
27.5°	2854.2	2204.7	928.2	622.7	661.2	712.3	716.5	700.6	697.2	686.3	689.7
30°	2817.3	2044.8	746.6	561.6	607.7	661.2	648.7	654.5	655.4	642.8	647.0
32.5°	2794.7	1877.4	594.3	520.6	573.3	583.4	608.5	620.2	621.1	591.8	596.8
35°	2802.3	1712.5	503.0	487.1	541.5	539.0	574.2	580.9	532.3	492.2	496.3
37.5°	2863.4	1560.2	451.1	461.2	486.3	505.5	532.3	488.0	477.1	458.7	461.2
40°	2977.2	1430.4	420.2	445.3	448.6	479.6	438.6	444.4	445.3	433.6	436.1
42.5°	3110.3	1322.5	401.8	436.1	427.7	432.7	391.7	403.4	416.0	411.0	411.8
45°	3177.3	1217.0	385.9	404.3	406.8	359.1	349.9	362.4	378.3	380.8	381.7
47.5°	3117.8	1116.6	369.1	358.2	375.0	327.3	316.4	320.6	339.0	349.0	350.7
50°	2936.2	1001.1	344.0	317.2	308.0	293.8	283.7	284.6	305.5	323.1	326.4
52.5°	2680.9	880.5	303.0	268.7	247.8	258.6	261.1	256.1	275.4	293.0	296.3
55°	2433.2	729.9	240.2	218.5	199.2	222.6	229.3	222.6	228.5	240.2	241.1
57.5°	1713.3	412.6	184.1	180.8	164.9	190.8	201.7	191.7	181.6	189.2	190.8
60°	794.3	215.9	141.5	141.5	137.3	164.1	182.5	168.2	149.0	152.3	154.8
62.5°	248.6	136.4	103.8	97.9	112.2	139.8	154.8	140.6	118.0	118.0	121.4
65°	140.6	117.2	82.0	75.3	91.2	112.2	121.4	106.3	86.2	84.5	84.5
67.5°	130.6	111.3	72.8	61.1	64.4	72.0	75.3	65.3	59.4	58.6	59.4
70°	108.0	92.9	58.6	41.9	39.3	38.5	40.2	37.7	36.0	36.8	39.3
72.5°	67.0	56.1	36.8	25.1	21.8	20.9	20.9	20.9	20.1	20.1	20.1
75°	24.3	20.9	16.7	12.6	10.9	10.0	10.0	10.9	10.0	9.2	8.4
77.5°	7.5	6.7	6.7	6.7	5.9	5.0	4.2	4.2	3.3	2.5	2.5
80°	4.2	4.2	4.2	4.2	3.3	3.3	2.5	1.7	0.8	0.8	0.0
82.5°	4.2	4.2	4.2	3.3	3.3	3.3	2.5	1.7	0.8	0.0	0.0
85°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	1.7	0.8	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	1.7	0.8	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)