

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: P633567

Luminaire Tested: GWS-SA2F-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633567  
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-SA2F-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

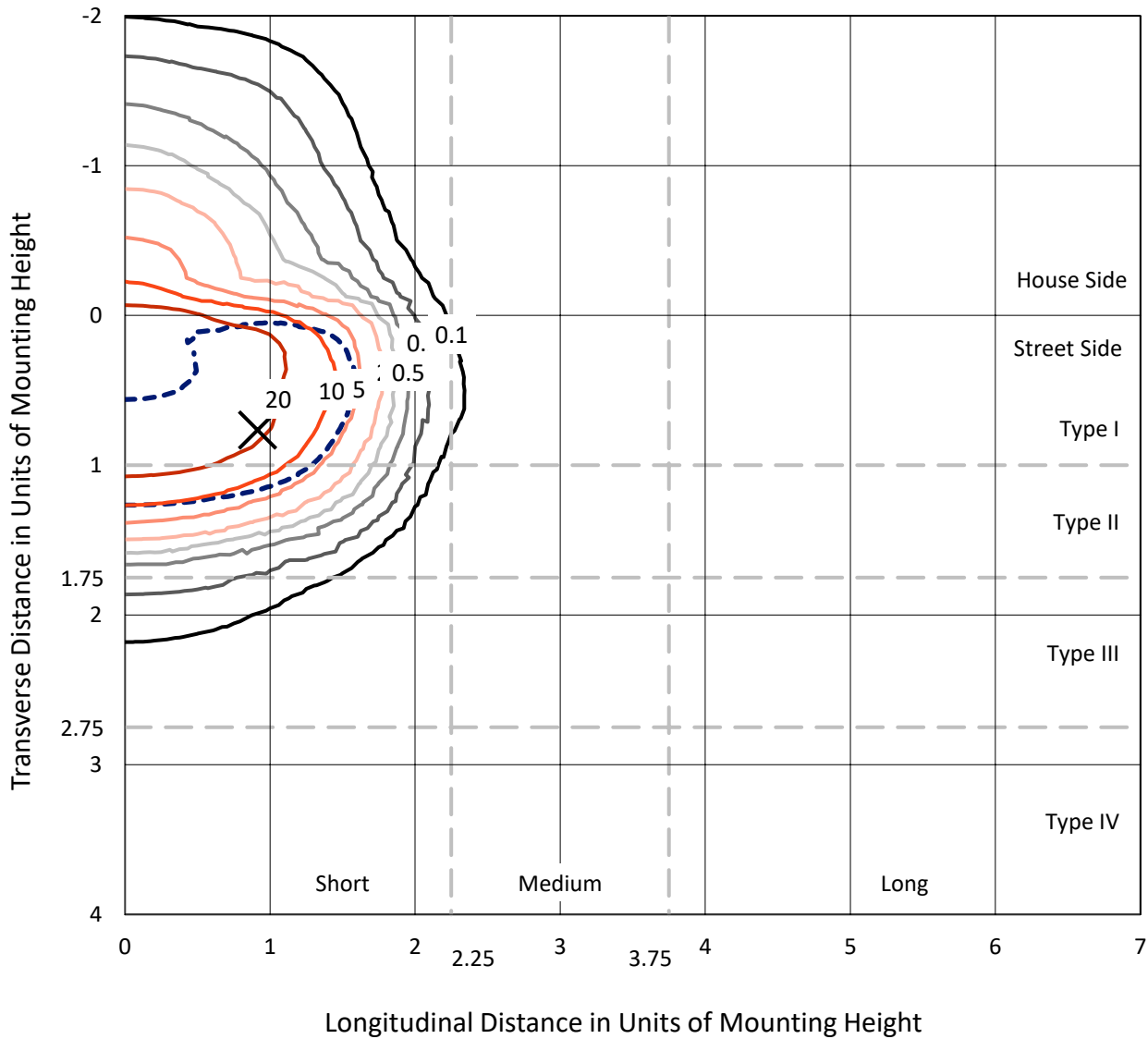
Lumens per Lamp: N/A  
Luminaire Lumens: 8999.7 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

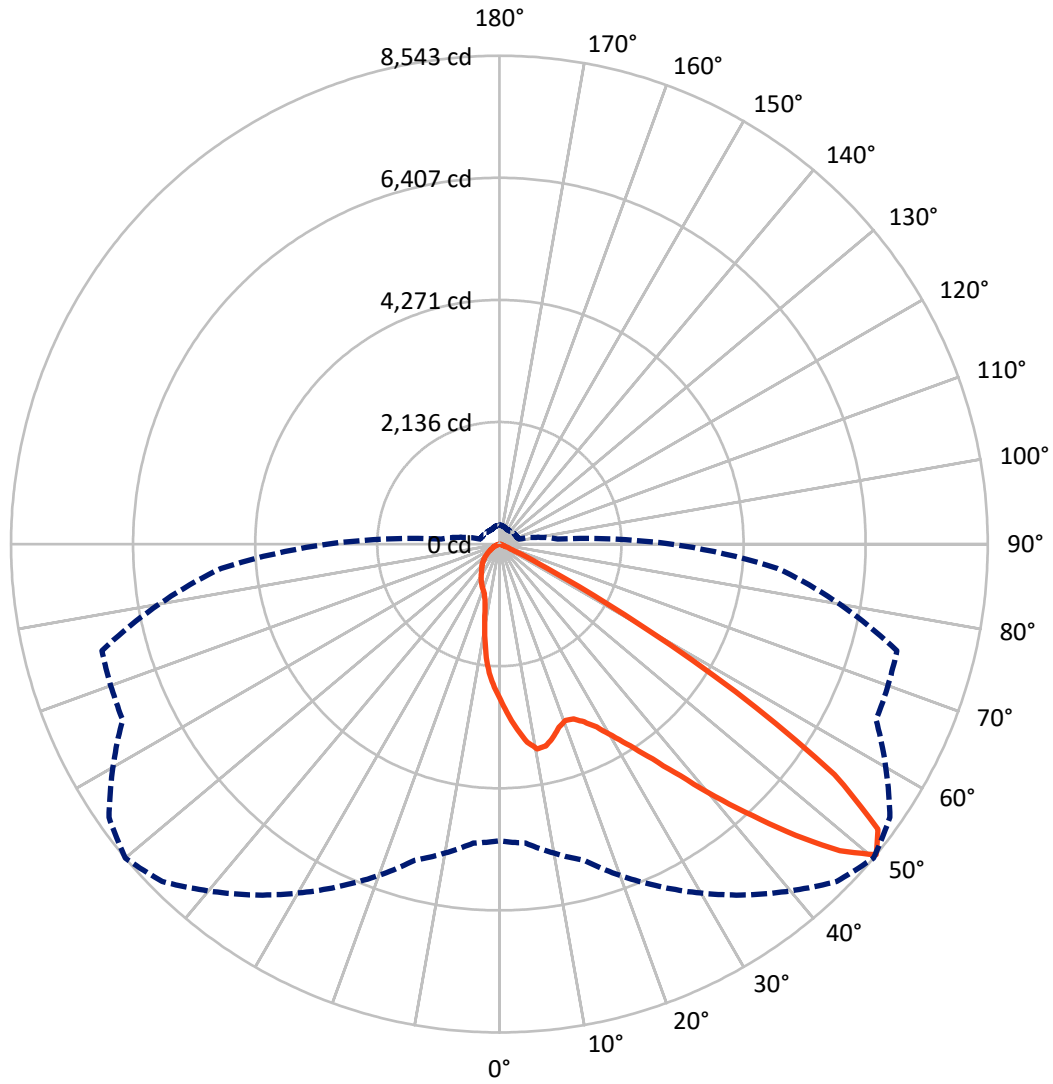
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.9 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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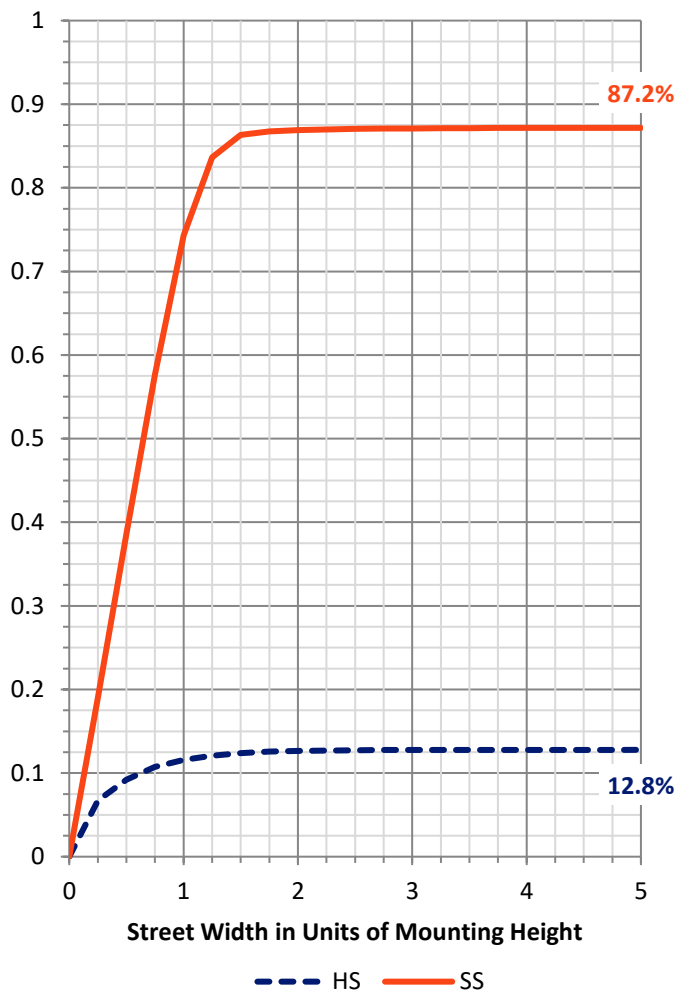
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1156.3	0.0	1156.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	7843.4	0.0	7843.4
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	8999.7	0.0	8999.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.9	2.8
10°-20°	652.6	7.3
20°-30°	1077.0	12.0
30°-40°	1777.3	19.7
40°-50°	2812.0	31.2
50°-60°	2129.0	23.7
60°-70°	266.5	3.0
70°-80°	30.1	0.3
80°-90°	2.3	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°	8999.7	100.0
0°-180°	8999.7	100.0

**Coefficient of Utilization**

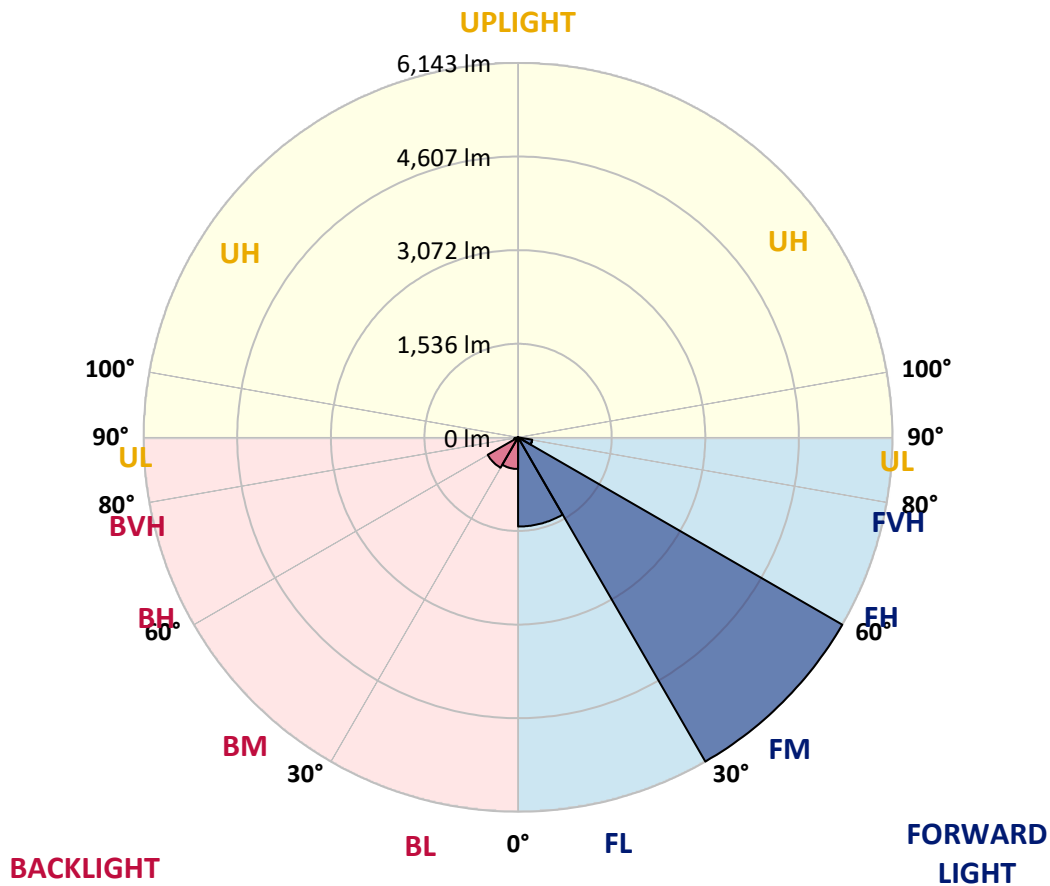


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.5	16.3			
FM (30°-60°)	6143.2	68.3			
FH (60°-80°)	235.6	2.6			G0/660
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	519.0	5.8	B2/1000		
BM (30°-60°)	575.1	6.4	B1/1000		
BH (60°-80°)	61.0	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°	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6
2.5°	3106.9	3131.7	3124.9	3092.3	3057.2	3032.4	2993.8	2981.8	2894.4	2833.6	2769.4
5°	3482.1	3489.8	3481.2	3441.8	3380.1	3321.0	3257.6	3220.8	3074.3	2942.4	2807.9
7.5°	3572.0	3562.6	3578.9	3598.6	3590.0	3564.3	3497.5	3457.2	3282.5	3067.5	2863.6
10°	3291.0	3269.6	3330.5	3432.4	3539.5	3660.2	3643.1	3646.5	3485.5	3225.1	2936.4
12.5°	2918.4	2909.9	2955.3	3073.5	3283.3	3557.5	3623.4	3733.9	3671.4	3395.6	3019.5
15°	2754.8	2759.1	2786.5	2861.0	3011.8	3352.7	3511.2	3710.8	3837.6	3560.9	3111.2
17.5°	2779.7	2795.1	2794.2	2819.1	2910.7	3184.0	3369.0	3638.0	3966.0	3751.0	3216.5
20°	2948.4	2963.8	2940.7	2921.9	2952.7	3141.1	3294.5	3564.3	4052.6	3942.9	3327.9
22.5°	3201.1	3219.1	3164.3	3110.3	3090.6	3211.4	3322.7	3534.3	4118.5	4118.5	3427.2
25°	3506.9	3531.8	3447.0	3351.0	3296.2	3359.6	3443.5	3602.0	4186.2	4276.1	3494.9
27.5°	3848.7	3849.6	3776.7	3668.8	3566.0	3573.7	3624.3	3754.5	4260.7	4445.7	3548.0
30°	4233.3	4235.9	4139.1	4009.7	3880.4	3845.3	3888.1	3986.6	4415.8	4659.0	3621.7
32.5°	4730.1	4742.1	4603.4	4413.2	4245.3	4179.3	4204.2	4307.8	4662.5	4926.3	3732.2
35°	5401.7	5414.6	5209.8	4958.8	4691.6	4592.2	4617.1	4721.6	5019.7	5305.8	3908.7
37.5°	6064.7	6081.8	5874.5	5640.7	5274.1	5109.6	5135.3	5234.7	5555.9	5830.0	4191.3
40°	6523.0	6546.1	6481.9	6324.3	5984.2	5768.3	5799.2	5835.1	6146.1	6457.0	4558.0
42.5°	6764.6	6797.1	6824.5	6905.0	6726.0	6545.3	6493.0	6495.6	6746.6	7096.1	4939.1
45°	6779.1	6810.8	6951.3	7262.2	7398.4	7360.7	7265.7	7201.4	7204.8	7521.8	5177.3
47.5°	6308.0	6367.1	6630.1	7239.1	7751.4	8064.0	8016.0	7863.6	7397.6	7550.1	5151.6
50°	5191.8	5250.1	5728.1	6604.4	7494.4	8345.0	8542.9	8338.1	7271.7	7198.0	4886.9
52.5°	3770.7	3776.7	4086.8	5110.5	6452.8	7826.7	8292.7	8273.0	7079.8	6771.4	4525.4
55°	1791.1	1769.7	2118.4	2884.2	4462.9	6330.3	7115.8	7338.5	6807.4	6463.0	4245.3
57.5°	521.7	531.9	687.0	1125.6	2232.3	4045.7	4873.2	5287.8	5587.6	5313.5	3292.8
60°	233.9	234.7	261.3	342.6	743.5	1881.9	2519.3	3032.4	3340.7	3095.7	1633.5
62.5°	169.6	170.5	180.7	193.6	252.7	637.3	944.8	1259.2	1282.3	839.5	413.7
65°	141.3	141.3	143.1	143.1	151.6	227.9	287.0	370.1	311.8	231.3	161.9
67.5°	113.9	114.8	116.5	116.5	113.9	113.9	123.4	135.3	144.8	179.0	149.0
70°	89.1	88.2	88.2	89.1	86.5	73.7	79.7	90.8	99.4	139.6	129.3
72.5°	69.4	70.2	69.4	66.0	60.0	43.7	47.1	59.1	63.4	87.4	87.4
75°	52.3	53.1	49.7	37.7	24.8	13.7	18.0	29.1	36.8	42.8	31.7
77.5°	6.9	6.9	5.1	5.1	4.3	5.1	5.1	6.9	10.3	10.3	7.7
80°	0.9	0.9	0.9	1.7	2.6	3.4	3.4	3.4	3.4	4.3	4.3
82.5°	0.9	0.9	0.9	0.9	2.6	2.6	3.4	3.4	3.4	3.4	3.4
85°	0.0	0.0	0.0	0.9	1.7	2.6	2.6	3.4	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.9	1.7	2.6	2.6	2.6	3.4	3.4	3.4
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°	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6	2726.6
2.5°	2730.8	2681.2	2621.2	2580.1	2521.8	2483.3	2428.5	2391.6	2359.9	2335.1	2348.8
5°	2731.7	2652.9	2530.4	2425.9	2312.0	2207.5	2095.2	2007.0	1927.3	1891.4	1911.1
7.5°	2748.8	2635.8	2448.2	2262.3	2043.8	1828.0	1625.8	1461.4	1380.0	1341.4	1353.4
10°	2782.2	2628.0	2356.5	2048.1	1693.5	1398.8	1202.7	1091.3	1045.9	1021.9	1026.2
12.5°	2813.1	2622.9	2237.4	1766.3	1336.3	1085.3	983.4	968.0	977.4	978.2	977.4
15°	2855.0	2613.5	2090.1	1476.8	1069.0	938.0	940.5	962.8	985.1	991.9	990.2
17.5°	2899.6	2598.9	1899.9	1199.2	907.1	895.1	925.1	955.1	977.4	980.8	981.7
20°	2945.8	2568.9	1683.2	979.1	831.8	862.6	896.0	918.3	934.5	939.7	941.4
22.5°	2967.3	2505.5	1433.1	821.5	781.2	822.3	847.2	876.3	881.4	862.6	866.0
25°	2956.1	2398.5	1189.0	715.3	730.7	771.8	808.6	794.1	772.7	758.9	763.2
27.5°	2921.0	2256.3	950.0	637.3	676.7	729.0	733.2	717.0	713.5	702.4	705.8
30°	2883.3	2092.7	764.1	574.8	621.9	676.7	663.9	669.9	670.7	657.9	662.2
32.5°	2860.2	1921.3	608.2	532.8	586.8	597.0	622.7	634.7	635.6	605.6	610.8
35°	2867.9	1752.6	514.8	498.5	554.2	551.6	587.6	594.5	544.8	503.7	508.0
37.5°	2930.4	1596.7	461.7	472.0	497.7	517.4	544.8	499.4	488.3	469.4	472.0
40°	3046.9	1463.9	430.0	455.7	459.1	490.8	448.9	454.9	455.7	443.7	446.3
42.5°	3183.1	1353.4	411.2	446.3	437.7	442.9	400.9	412.9	425.7	420.6	421.4
45°	3251.6	1245.5	394.9	413.7	416.3	367.5	358.1	370.9	387.2	389.8	390.6
47.5°	3190.8	1142.7	377.8	366.6	383.8	334.9	323.8	328.1	346.9	357.2	358.9
50°	3004.9	1024.5	352.1	324.7	315.2	300.7	290.4	291.2	312.7	330.6	334.1
52.5°	2743.7	901.1	310.1	275.0	253.6	264.7	267.3	262.1	281.8	299.8	303.2
55°	2490.1	747.0	245.8	223.6	203.9	227.9	234.7	227.9	233.9	245.8	246.7
57.5°	1753.5	422.3	188.5	185.0	168.7	195.3	206.4	196.2	185.9	193.6	195.3
60°	812.9	221.0	144.8	144.8	140.5	167.9	186.7	172.2	152.5	155.9	158.5
62.5°	254.4	139.6	106.2	100.2	114.8	143.1	158.5	143.9	120.8	120.8	124.2
65°	143.9	119.9	83.9	77.1	93.4	114.8	124.2	108.8	88.2	86.5	86.5
67.5°	133.6	113.9	74.5	62.5	66.0	73.7	77.1	66.8	60.8	60.0	60.8
70°	110.5	95.1	60.0	42.8	40.3	39.4	41.1	38.5	36.8	37.7	40.3
72.5°	68.5	57.4	37.7	25.7	22.3	21.4	21.4	21.4	20.6	20.6	20.6
75°	24.8	21.4	17.1	12.8	11.1	10.3	10.3	11.1	10.3	9.4	8.6
77.5°	7.7	6.9	6.9	6.9	6.0	5.1	4.3	4.3	3.4	2.6	2.6
80°	4.3	4.3	4.3	4.3	3.4	3.4	2.6	1.7	0.9	0.9	0.0
82.5°	4.3	4.3	4.3	3.4	3.4	3.4	2.6	1.7	0.9	0.0	0.0
85°	3.4	3.4	3.4	3.4	3.4	3.4	2.6	1.7	0.9	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.6	1.7	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)