

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: P636537

Luminaire Tested: GWS-SA4B-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636537  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

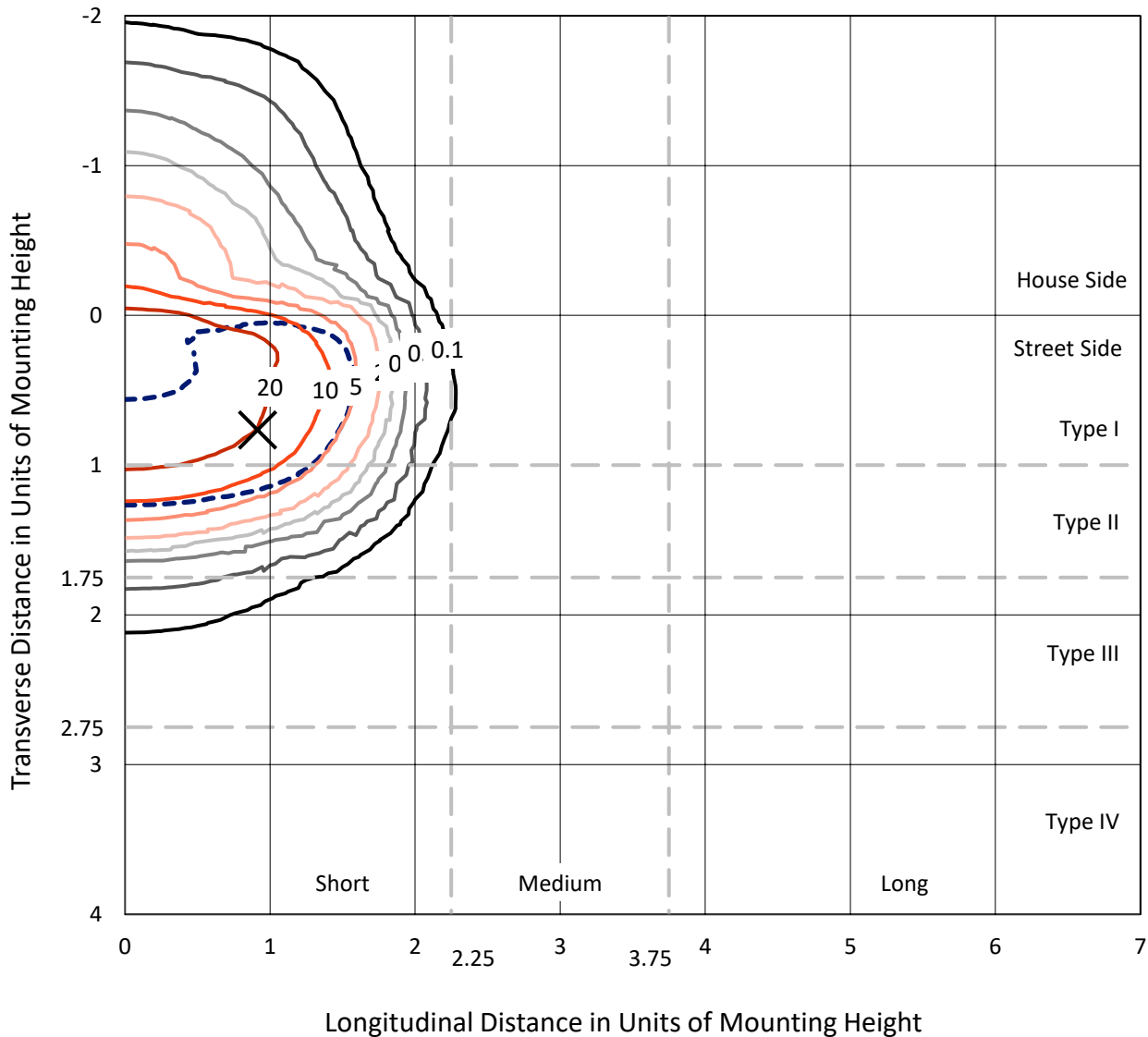
Lumens per Lamp: N/A  
Luminaire Lumens: 8029.8 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

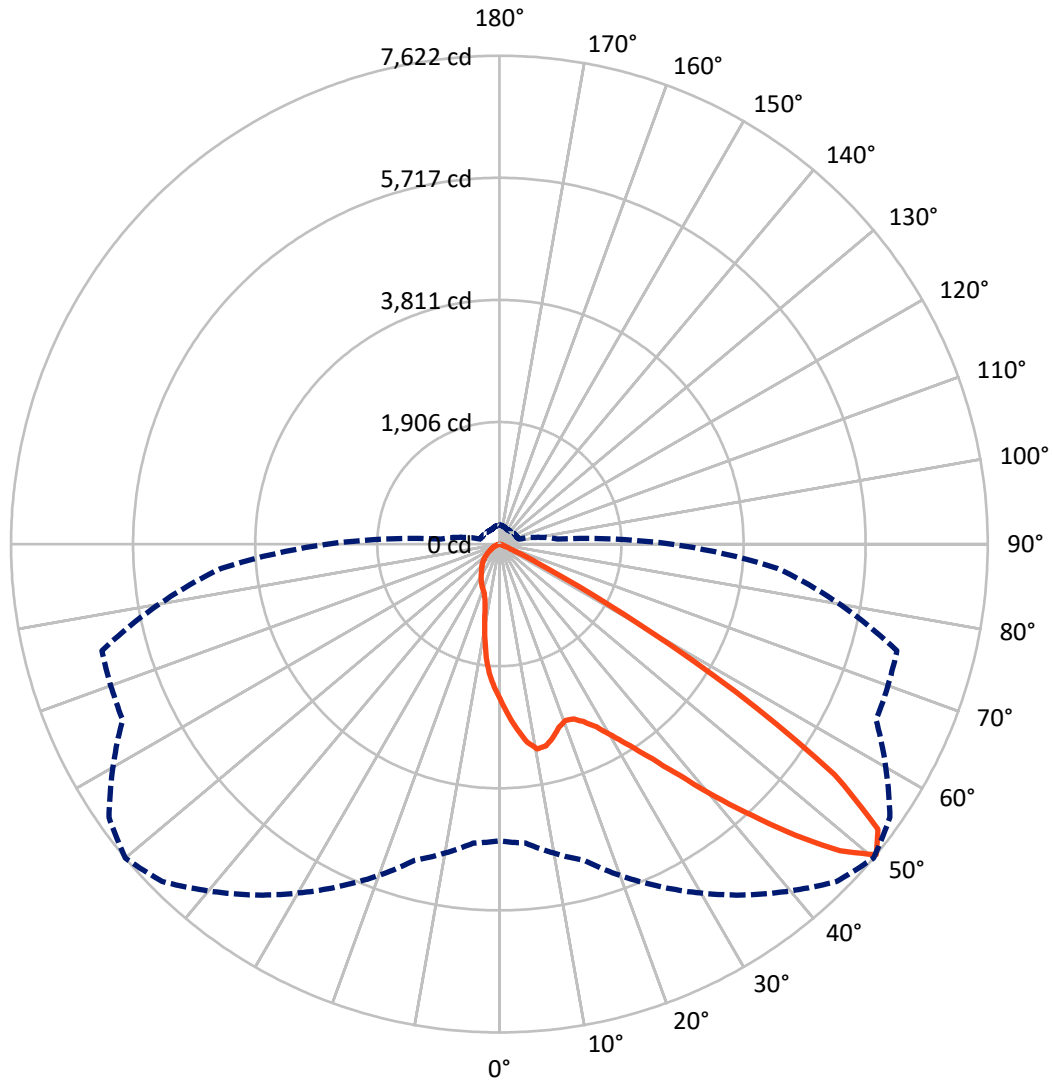
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.2 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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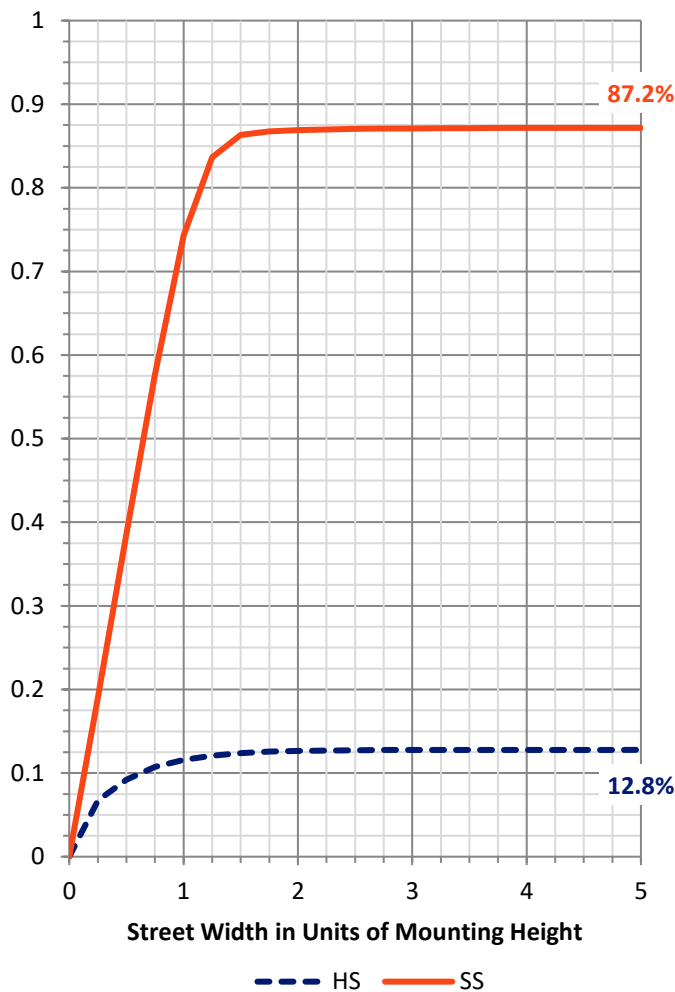
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1031.7	0.0	1031.7
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	6998.1	0.0	6998.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	8029.8	0.0	8029.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.7	2.8
10°-20°	582.2	7.3
20°-30°	960.9	12.0
30°-40°	1585.7	19.7
40°-50°	2509.0	31.2
50°-60°	1899.6	23.7
60°-70°	237.7	3.0
70°-80°	26.9	0.3
80°-90°	2.1	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°	8029.8	100.0
0°-180°	8029.8	100.0

**Coefficient of Utilization**

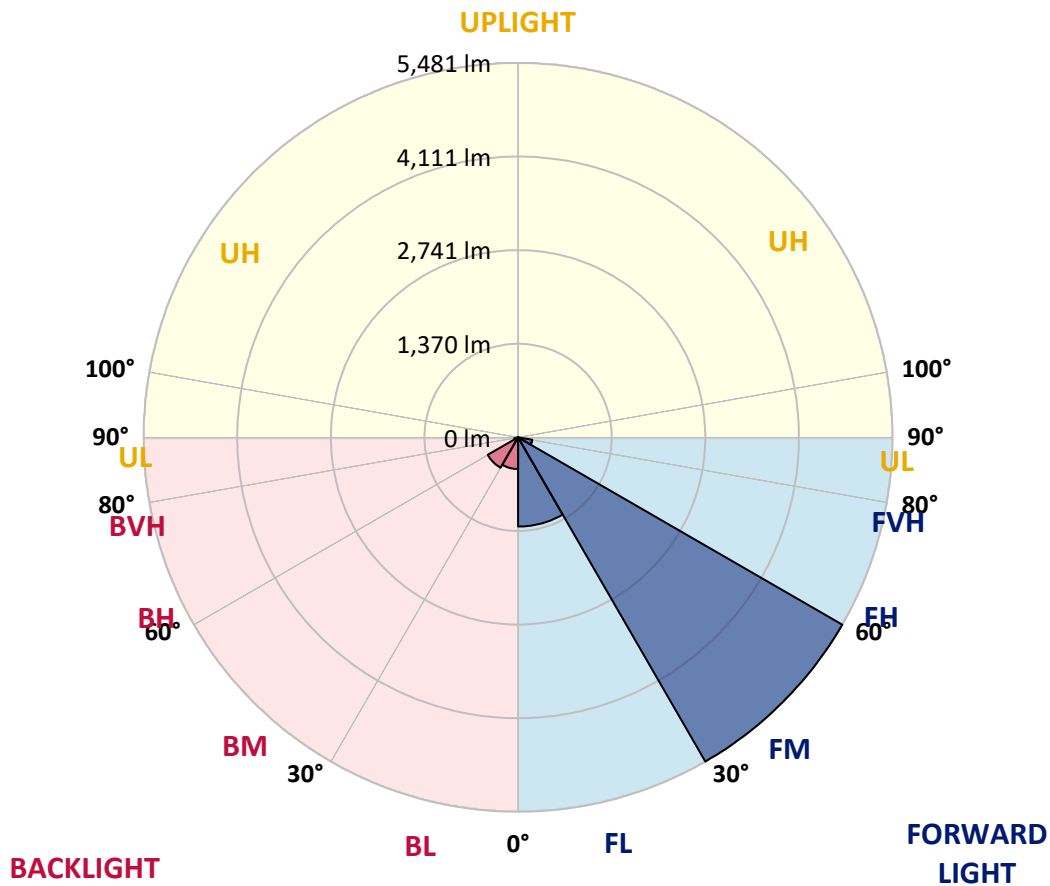


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.8	16.3			
FM (30°-60°)	5481.2	68.3			
FH (60°-80°)	210.2	2.6			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	463.1	5.8	B1/500		
BM (30°-60°)	513.1	6.4	B1/1000		
BH (60°-80°)	54.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7
2.5°	2772.1	2794.2	2788.1	2759.1	2727.7	2705.6	2671.2	2660.5	2582.5	2528.2	2470.9
5°	3106.8	3113.7	3106.0	3070.9	3015.9	2963.1	2906.6	2873.7	2743.0	2625.3	2505.3
7.5°	3187.1	3178.6	3193.2	3210.7	3203.1	3180.2	3120.6	3084.6	2928.7	2736.9	2555.0
10°	2936.4	2917.3	2971.5	3062.5	3158.0	3265.8	3250.5	3253.5	3109.9	2877.5	2620.0
12.5°	2603.9	2596.3	2636.8	2742.2	2929.5	3174.1	3232.9	3331.5	3275.7	3029.6	2694.1
15°	2457.9	2461.8	2486.2	2552.7	2687.2	2991.4	3132.8	3310.9	3424.0	3177.1	2775.9
17.5°	2480.1	2493.9	2493.1	2515.3	2597.0	2840.8	3005.9	3245.9	3538.6	3346.8	2869.9
20°	2630.7	2644.4	2623.8	2607.0	2634.5	2802.6	2939.4	3180.2	3615.8	3518.0	2969.2
22.5°	2856.1	2872.2	2823.3	2775.1	2757.5	2865.3	2964.7	3153.4	3674.7	3674.7	3057.9
25°	3129.0	3151.1	3075.5	2989.9	2941.0	2997.5	3072.4	3213.8	3735.0	3815.3	3118.3
27.5°	3433.9	3434.7	3369.7	3273.4	3181.7	3188.6	3233.7	3349.8	3801.5	3966.6	3165.7
30°	3777.1	3779.4	3693.0	3577.6	3462.2	3430.9	3469.1	3557.0	3939.9	4156.9	3231.4
32.5°	4220.4	4231.1	4107.3	3937.6	3787.8	3728.9	3751.1	3843.6	4160.0	4395.4	3330.0
35°	4819.6	4831.0	4648.4	4424.4	4186.0	4097.3	4119.5	4212.7	4478.7	4734.0	3487.4
37.5°	5411.1	5426.4	5241.4	5032.8	4705.7	4558.9	4581.9	4670.5	4957.1	5201.7	3739.6
40°	5820.0	5840.6	5783.3	5642.7	5339.3	5146.7	5174.2	5206.3	5483.7	5761.2	4066.7
42.5°	6035.5	6064.6	6089.0	6160.9	6001.1	5839.9	5793.3	5795.6	6019.5	6331.3	4406.9
45°	6048.5	6076.8	6202.1	6479.6	6601.1	6567.5	6482.6	6425.3	6428.4	6711.2	4619.3
47.5°	5628.2	5680.9	5915.5	6458.9	6916.0	7195.0	7152.2	7016.1	6600.3	6736.4	4596.4
50°	4632.3	4684.3	5110.8	5892.6	6686.7	7445.6	7622.2	7439.5	6488.0	6422.3	4360.2
52.5°	3364.4	3369.7	3646.4	4559.7	5757.3	6983.2	7399.0	7381.4	6316.8	6041.7	4037.7
55°	1598.1	1579.0	1890.1	2573.3	3981.9	5648.0	6348.9	6547.6	6073.8	5766.5	3787.8
57.5°	465.4	474.6	613.0	1004.3	1991.7	3609.7	4348.0	4717.9	4985.4	4740.8	2937.9
60°	208.6	209.4	233.1	305.7	663.4	1679.1	2247.8	2705.6	2980.7	2762.1	1457.5
62.5°	151.3	152.1	161.3	172.7	225.5	568.6	843.0	1123.5	1144.1	749.0	369.1
65°	126.1	126.1	127.6	127.6	135.3	203.3	256.0	330.2	278.2	206.4	144.4
67.5°	101.6	102.4	103.9	103.9	101.6	101.6	110.1	120.8	129.2	159.7	133.0
70°	79.5	78.7	78.7	79.5	77.2	65.7	71.1	81.0	88.7	124.6	115.4
72.5°	61.9	62.7	61.9	58.8	53.5	39.0	42.0	52.7	56.6	78.0	78.0
75°	46.6	47.4	44.3	33.6	22.2	12.2	16.0	26.0	32.9	38.2	28.3
77.5°	6.1	6.1	4.6	4.6	3.8	4.6	4.6	6.1	9.2	9.2	6.9
80°	0.8	0.8	0.8	1.5	2.3	3.1	3.1	3.1	3.1	3.8	3.8
82.5°	0.8	0.8	0.8	0.8	2.3	2.3	3.1	3.1	3.1	3.1	3.1
85°	0.0	0.0	0.0	0.8	1.5	2.3	2.3	3.1	3.1	3.1	3.1
87.5°	0.0	0.0	0.0	0.8	1.5	2.3	2.3	2.3	3.1	3.1	3.1
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°	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7	2432.7
2.5°	2436.5	2392.2	2338.7	2302.0	2250.0	2215.7	2166.7	2133.9	2105.6	2083.4	2095.7
5°	2437.3	2367.0	2257.7	2164.4	2062.8	1969.6	1869.4	1790.7	1719.6	1687.5	1705.1
7.5°	2452.6	2351.7	2184.3	2018.5	1823.6	1631.0	1450.6	1303.9	1231.3	1196.9	1207.6
10°	2482.4	2344.8	2102.5	1827.4	1511.0	1248.1	1073.1	973.7	933.2	911.8	915.6
12.5°	2509.9	2340.2	1996.3	1575.9	1192.3	968.3	877.4	863.6	872.0	872.8	872.0
15°	2547.4	2331.8	1864.8	1317.6	953.8	836.9	839.2	859.1	878.9	885.0	883.5
17.5°	2587.1	2318.8	1695.2	1070.0	809.4	798.7	825.4	852.2	872.0	875.1	875.9
20°	2628.4	2292.1	1501.8	873.6	742.1	769.6	799.4	819.3	833.8	838.4	839.9
22.5°	2647.5	2235.5	1278.6	732.9	697.0	733.7	755.9	781.9	786.4	769.6	772.7
25°	2637.5	2140.0	1060.8	638.2	651.9	688.6	721.5	708.5	689.4	677.2	681.0
27.5°	2606.2	2013.1	847.6	568.6	603.8	650.4	654.2	639.7	636.6	626.7	629.8
30°	2572.6	1867.1	681.7	512.8	554.9	603.8	592.3	597.7	598.4	587.0	590.8
32.5°	2551.9	1714.3	542.6	475.4	523.5	532.7	555.6	566.3	567.1	540.3	544.9
35°	2558.8	1563.7	459.3	444.8	494.5	492.2	524.3	530.4	486.1	449.4	453.2
37.5°	2614.6	1424.6	411.9	421.1	444.0	461.6	486.1	445.6	435.6	418.8	421.1
40°	2718.6	1306.2	383.7	406.6	409.7	437.9	400.5	405.8	406.6	395.9	398.2
42.5°	2840.1	1207.6	366.9	398.2	390.5	395.1	357.7	368.4	379.8	375.3	376.0
45°	2901.2	1111.3	352.3	369.1	371.4	327.9	319.5	330.9	345.5	347.7	348.5
47.5°	2847.0	1019.6	337.0	327.1	342.4	298.8	288.9	292.7	309.5	318.7	320.2
50°	2681.1	914.1	314.1	289.7	281.3	268.3	259.1	259.9	279.0	295.0	298.1
52.5°	2448.0	804.0	276.7	245.3	226.2	236.2	238.5	233.9	251.4	267.5	270.6
55°	2221.8	666.5	219.3	199.5	181.9	203.3	209.4	203.3	208.6	219.3	220.1
57.5°	1564.5	376.8	168.1	165.1	150.6	174.3	184.2	175.0	165.8	172.7	174.3
60°	725.3	197.2	129.2	129.2	125.3	149.8	166.6	153.6	136.0	139.1	141.4
62.5°	227.0	124.6	94.8	89.4	102.4	127.6	141.4	128.4	107.8	107.8	110.8
65°	128.4	107.0	74.9	68.8	83.3	102.4	110.8	97.1	78.7	77.2	77.2
67.5°	119.2	101.6	66.5	55.8	58.8	65.7	68.8	59.6	54.3	53.5	54.3
70°	98.6	84.8	53.5	38.2	35.9	35.2	36.7	34.4	32.9	33.6	35.9
72.5°	61.1	51.2	33.6	22.9	19.9	19.1	19.1	19.1	18.3	18.3	18.3
75°	22.2	19.1	15.3	11.5	9.9	9.2	9.2	9.9	9.2	8.4	7.6
77.5°	6.9	6.1	6.1	6.1	5.3	4.6	3.8	3.8	3.1	2.3	2.3
80°	3.8	3.8	3.8	3.8	3.1	3.1	2.3	1.5	0.8	0.8	0.0
82.5°	3.8	3.8	3.8	3.1	3.1	3.1	2.3	1.5	0.8	0.0	0.0
85°	3.1	3.1	3.1	3.1	3.1	3.1	2.3	1.5	0.8	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.3	1.5	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)