

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: P637267

Luminaire Tested: GWS-SA4C-740-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-740-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

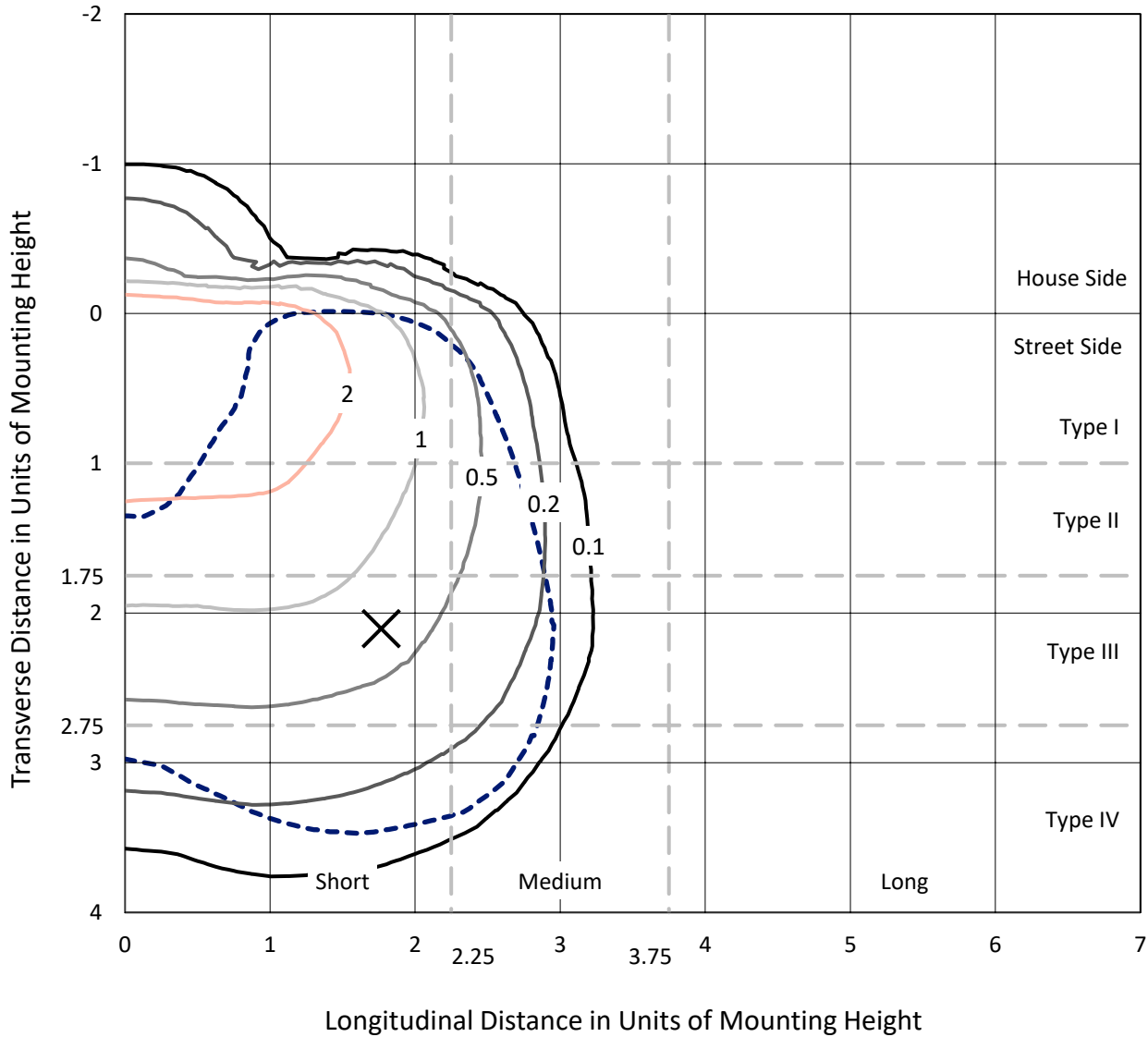
Lumens per Lamp: N/A  
Luminaire Lumens: 15294.7 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

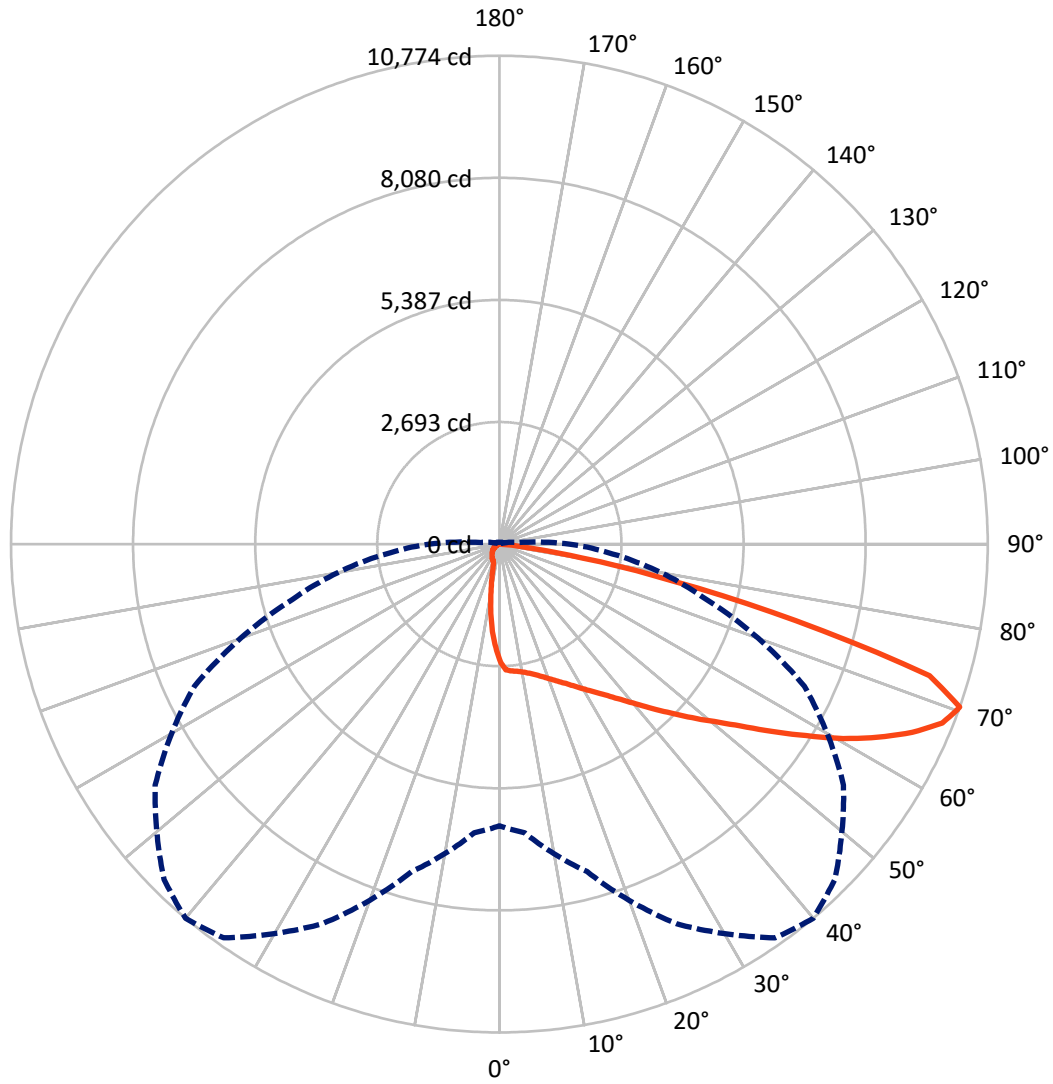
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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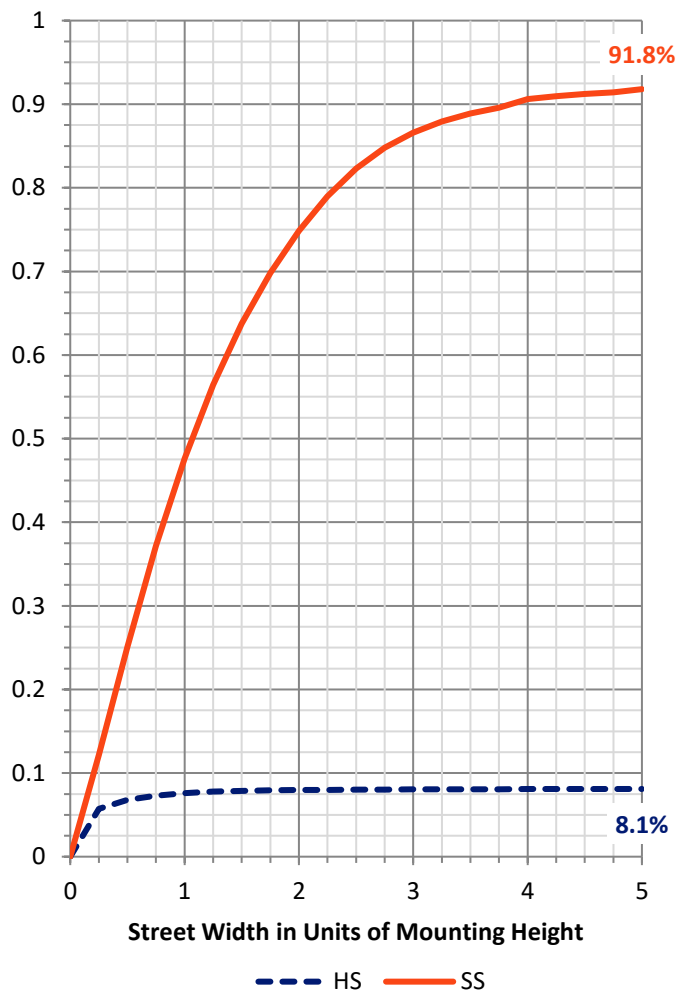
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1250.7	0.0	1250.7
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	14044.0	0.0	14044.0
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	15294.7	0.0	15294.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.4	1.4
10°-20°	556.3	3.6
20°-30°	931.1	6.1
30°-40°	1462.5	9.6
40°-50°	2313.3	15.1
50°-60°	3374.5	22.1
60°-70°	4183.1	27.4
70°-80°	2116.4	13.8
80°-90°	138.2	0.9
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°	15294.7	100.0
0°-180°	15294.7	100.0

**Coefficient of Utilization**



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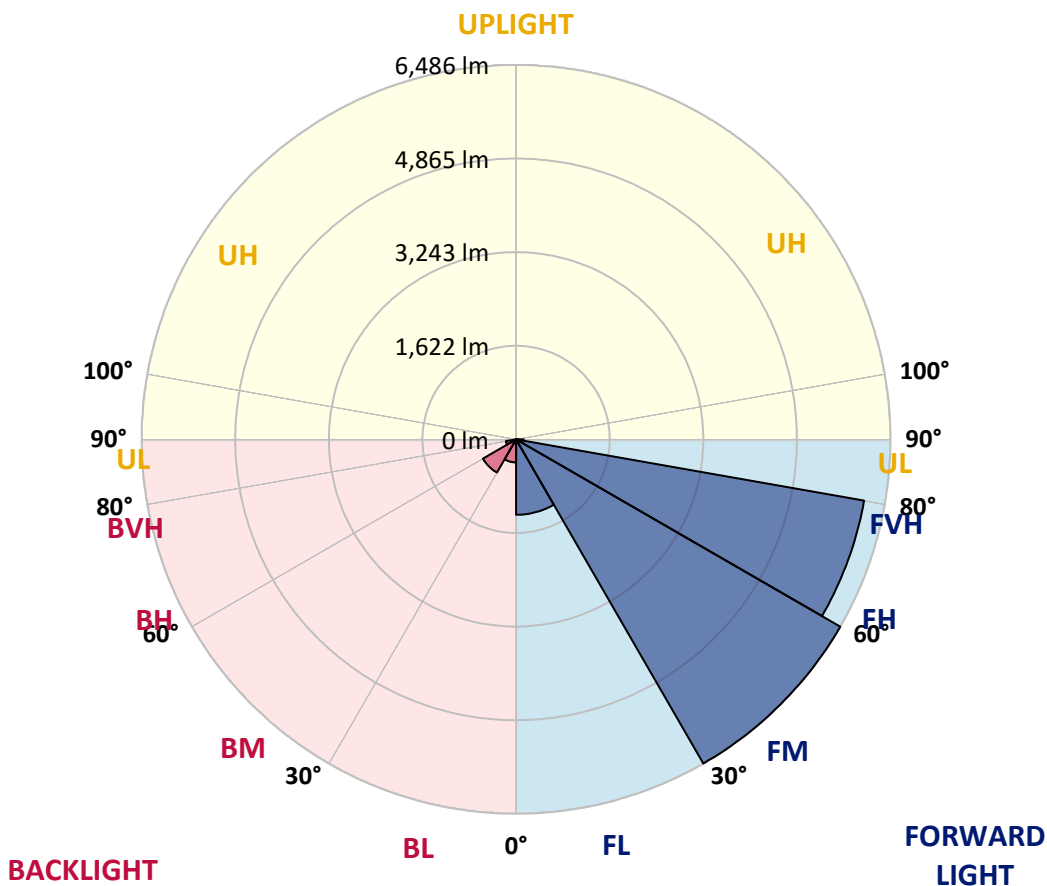
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.4	8.5			
FM (30°-60°)	6486.3	42.4			
FH (60°-80°)	6121.2	40.0			G3/7500
FVH (80°-90°)	129.0	0.8			G2/225
BL (0°-30°)	399.4	2.6	B1/500		
BM (30°-60°)	663.9	4.3	B1/1000		
BH (60°-80°)	178.3	1.2	B1/500		G1/500
BVH (80°-90°)	9.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3
2.5°	2790.2	2799.9	2798.5	2802.7	2792.9	2777.6	2774.8	2754.0	2716.4	2669.1	2616.2
5°	2847.2	2858.3	2850.0	2845.8	2827.7	2811.0	2806.8	2784.6	2741.4	2677.4	2585.6
7.5°	2895.9	2898.7	2893.1	2883.4	2856.9	2834.7	2819.4	2788.8	2737.3	2673.3	2567.5
10°	2904.3	2902.9	2905.7	2907.0	2890.3	2870.9	2858.3	2816.6	2751.2	2683.0	2568.9
12.5°	2894.5	2894.5	2912.6	2933.5	2933.5	2923.7	2911.2	2873.6	2797.1	2716.4	2596.7
15°	2907.0	2911.2	2946.0	2985.0	2997.5	2987.8	2982.2	2943.2	2863.9	2774.8	2646.8
17.5°	2951.6	2955.8	3011.4	3069.9	3085.2	3074.0	3062.9	3023.9	2939.1	2841.6	2703.9
20°	3017.0	3028.1	3099.1	3174.2	3188.1	3174.2	3152.0	3097.7	3012.8	2914.0	2758.1
22.5°	3136.7	3143.6	3220.2	3299.5	3306.4	3284.2	3250.8	3175.6	3086.6	2990.5	2819.4
25°	3295.3	3305.0	3381.6	3458.1	3440.0	3406.6	3360.7	3275.8	3174.2	3081.0	2897.3
27.5°	3484.6	3495.7	3570.8	3637.6	3590.3	3551.4	3499.9	3394.1	3291.1	3206.2	2997.5
30°	3689.1	3698.9	3765.7	3825.5	3762.9	3717.0	3655.7	3547.2	3442.8	3378.8	3139.4
32.5°	3886.7	3885.3	3949.4	3998.1	3934.0	3897.9	3842.2	3732.3	3648.8	3620.9	3351.0
35°	4070.4	4070.4	4123.3	4172.0	4126.1	4106.6	4055.1	3967.4	3920.1	3953.5	3633.5
37.5°	4255.5	4245.8	4295.9	4350.1	4346.0	4347.3	4318.1	4276.4	4279.2	4397.4	4021.7
40°	4408.6	4404.4	4462.8	4533.8	4589.5	4634.0	4615.9	4631.2	4718.9	4940.2	4518.5
42.5°	4531.0	4540.8	4615.9	4728.6	4869.2	4959.6	4972.2	5034.8	5260.2	5602.6	5079.3
45°	4671.6	4673.0	4777.4	4949.9	5174.0	5317.3	5367.4	5528.8	5848.9	6290.0	5694.4
47.5°	4844.1	4827.4	4944.3	5186.5	5510.7	5722.2	5811.3	6013.1	6508.5	6960.8	6195.4
50°	5034.8	5004.2	5136.4	5466.2	5887.8	6152.2	6333.2	6628.2	7162.5	7511.8	6568.3
52.5°	5256.1	5226.8	5377.1	5787.6	6340.1	6661.6	6894.0	7191.8	7723.4	7932.1	6791.0
55°	5537.2	5507.9	5666.6	6173.1	6874.5	7292.0	7535.5	7786.0	8245.2	8242.4	6952.4
57.5°	5848.9	5808.5	6028.4	6660.2	7541.1	7975.2	8222.9	8345.4	8641.8	8483.2	7061.0
60°	6206.5	6170.3	6475.1	7240.5	8310.6	8712.8	8868.6	8818.5	8967.4	8625.1	7023.4
62.5°	6529.4	6512.7	6891.2	7855.6	9044.0	9383.5	9426.7	9208.2	9206.8	8627.9	6770.1
65°	6864.7	6896.8	7459.0	8563.9	9781.5	10009.8	9936.0	9595.1	9302.8	8287.0	6021.4
67.5°	6990.0	7083.2	7833.3	9204.0	10363.2	10541.3	10411.9	9788.5	8903.4	7140.3	4585.3
70°	6216.3	6391.6	7479.8	9240.2	10604.0	10773.7	10463.4	9268.0	7422.8	4730.0	2511.8
72.5°	4727.3	4931.8	6233.0	7566.1	9536.6	9923.5	9393.3	7550.8	4784.3	2072.1	843.3
75°	2645.4	2866.7	4642.4	5697.2	6402.7	6756.2	6561.4	4844.1	2119.4	541.3	251.9
77.5°	894.8	968.6	2159.8	3524.9	4226.3	3909.0	3309.2	2406.1	779.3	206.0	133.6
80°	530.2	558.0	804.3	1754.8	2223.8	1843.9	1455.6	889.2	396.6	109.9	93.2
82.5°	158.6	187.9	443.9	651.3	871.1	542.7	459.2	507.9	206.0	59.8	77.9
85°	0.0	0.0	94.6	201.8	228.2	89.1	89.1	288.1	37.6	25.0	57.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	4.2	5.6	12.5
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°	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3
2.5°	2578.6	2529.9	2472.9	2418.6	2367.1	2300.3	2268.3	2229.3	2195.9	2177.8	2187.6
5°	2527.1	2450.6	2333.7	2215.4	2095.7	1983.0	1881.4	1813.3	1752.0	1720.0	1727.0
7.5°	2482.6	2379.6	2197.3	2003.9	1811.9	1618.4	1461.2	1338.7	1244.1	1205.1	1198.2
10°	2463.1	2333.7	2076.3	1797.9	1502.9	1242.7	1020.0	885.1	789.0	741.7	750.1
12.5°	2472.9	2310.0	1973.3	1596.2	1213.5	910.1	697.2	570.6	502.4	474.5	467.6
15°	2500.7	2304.5	1881.4	1390.2	936.5	636.0	481.5	430.0	416.1	413.3	413.3
17.5°	2532.7	2305.9	1786.8	1181.5	711.1	471.8	411.9	402.2	398.0	395.2	396.6
20°	2564.7	2305.9	1678.3	969.9	534.4	407.7	392.4	385.5	381.3	379.9	379.9
22.5°	2603.7	2305.9	1557.2	773.7	428.6	386.9	374.3	370.2	366.0	364.6	363.2
25°	2651.0	2307.3	1423.6	605.3	389.6	368.8	359.0	354.9	350.7	347.9	347.9
27.5°	2719.2	2318.4	1276.1	471.8	367.4	352.1	343.7	339.5	335.4	331.2	331.2
30°	2818.0	2346.2	1110.5	389.6	346.5	334.0	325.6	322.9	318.7	314.5	313.1
32.5°	2965.5	2394.9	939.3	349.3	327.0	314.5	304.8	302.0	297.8	293.6	292.2
35°	3171.4	2484.0	772.3	324.2	302.0	289.5	283.9	282.5	276.9	272.8	272.8
37.5°	3473.4	2628.7	612.3	299.2	281.1	271.4	264.4	261.6	256.1	251.9	250.5
40°	3842.2	2816.6	475.9	279.7	261.6	251.9	244.9	240.7	233.8	228.2	225.4
42.5°	4312.6	3046.2	375.7	258.8	243.5	233.8	228.2	219.9	210.1	201.8	200.4
45°	4802.4	3282.8	310.3	239.4	226.8	218.5	211.5	200.4	186.5	176.7	173.9
47.5°	5178.1	3430.3	271.4	218.5	208.7	201.8	193.4	179.5	162.8	151.7	148.9
50°	5446.7	3452.6	242.1	199.0	193.4	186.5	173.9	157.3	139.2	128.0	125.2
52.5°	5578.9	3352.4	218.5	180.9	176.7	169.8	154.5	136.4	116.9	105.8	103.0
55°	5638.7	3163.1	196.2	165.6	160.0	151.7	135.0	115.5	96.0	86.3	83.5
57.5°	5615.1	2883.4	176.7	150.3	143.3	133.6	115.5	94.6	79.3	69.6	68.2
60°	5439.8	2491.0	157.3	135.0	126.6	115.5	97.4	77.9	64.0	57.1	55.7
62.5°	5061.2	2003.9	137.8	116.9	111.3	100.2	83.5	64.0	52.9	48.7	47.3
65°	4286.1	1416.6	118.3	98.8	96.0	84.9	69.6	52.9	45.9	43.1	41.7
67.5°	3081.0	861.4	100.2	84.9	82.1	72.4	58.4	45.9	41.7	40.4	40.4
70°	1548.8	407.7	79.3	69.6	69.6	59.8	50.1	41.7	40.4	39.0	39.0
72.5°	526.0	173.9	59.8	54.3	57.1	51.5	43.1	39.0	39.0	39.0	39.0
75°	179.5	91.8	41.7	39.0	41.7	41.7	37.6	37.6	39.0	39.0	39.0
77.5°	116.9	61.2	29.2	26.4	32.0	32.0	32.0	34.8	37.6	37.6	37.6
80°	96.0	33.4	19.5	18.1	23.7	23.7	26.4	32.0	34.8	34.8	34.8
82.5°	82.1	20.9	11.1	12.5	16.7	18.1	22.3	26.4	30.6	32.0	32.0
85°	55.7	11.1	8.3	9.7	11.1	13.9	18.1	22.3	25.0	27.8	27.8
87.5°	15.3	4.2	5.6	7.0	7.0	9.7	13.9	16.7	19.5	20.9	20.9
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)