

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: P632699

Luminaire Tested: GWS-SA2D-730-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-730-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

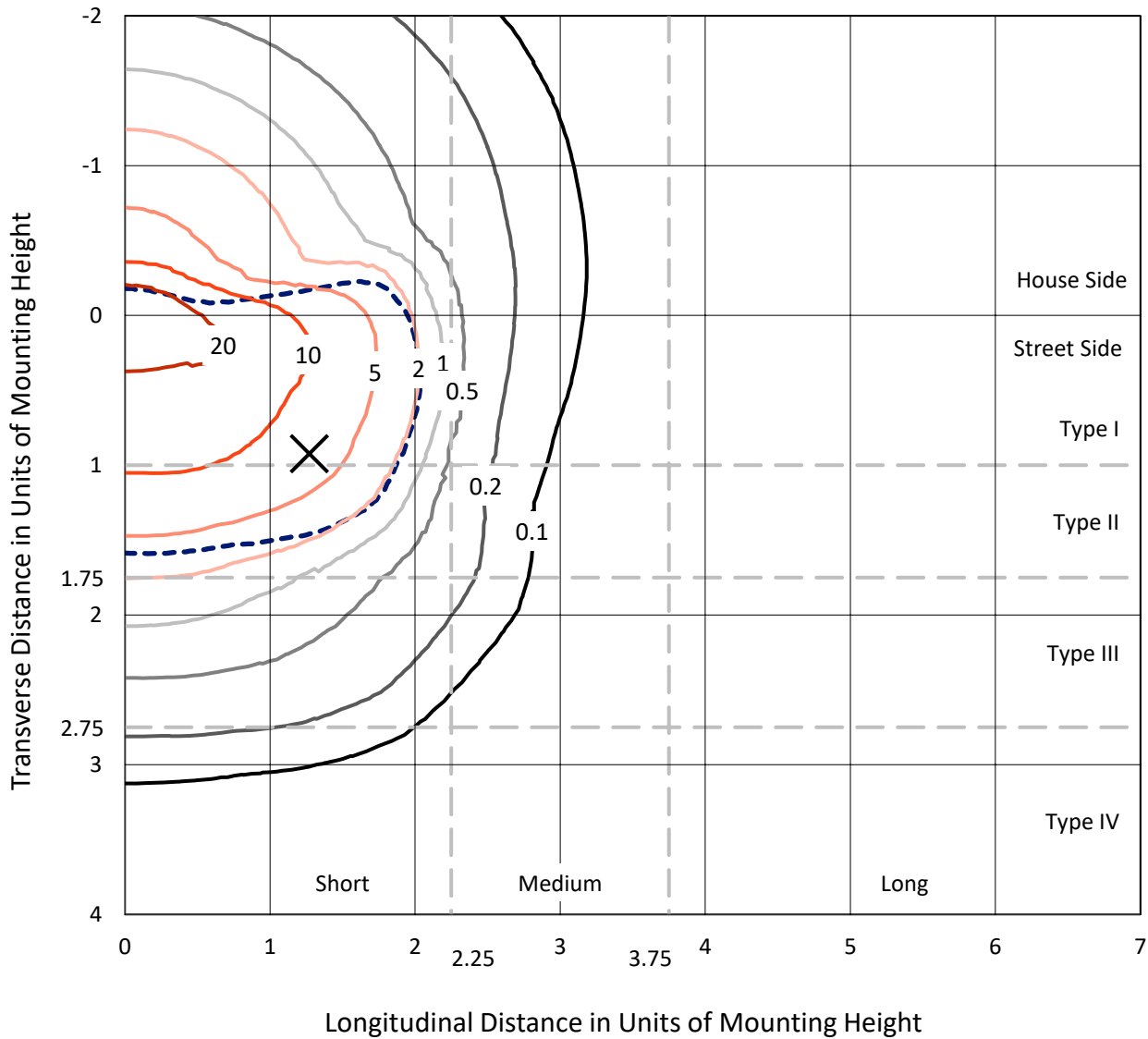
Lumens per Lamp: N/A  
Luminaire Lumens: 8904.1 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

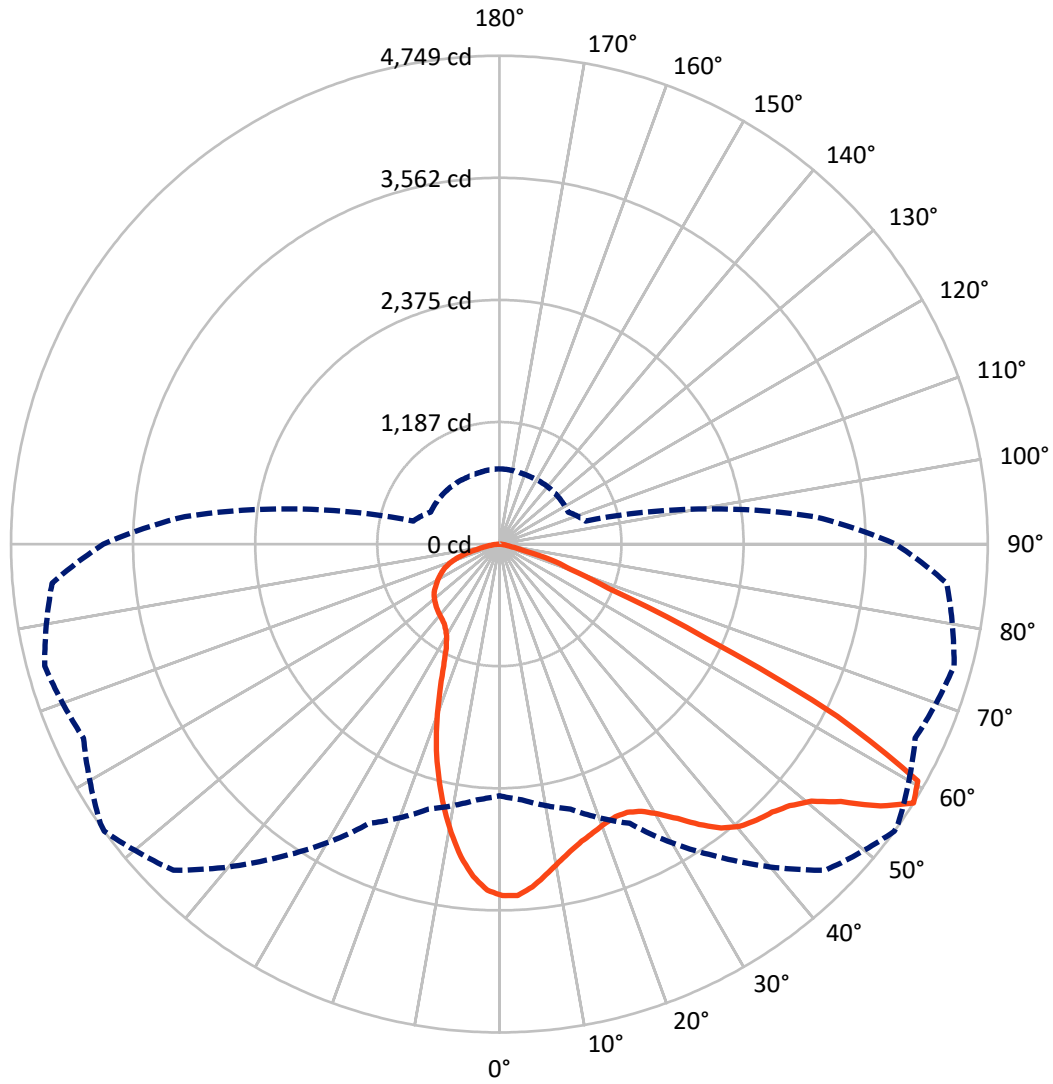
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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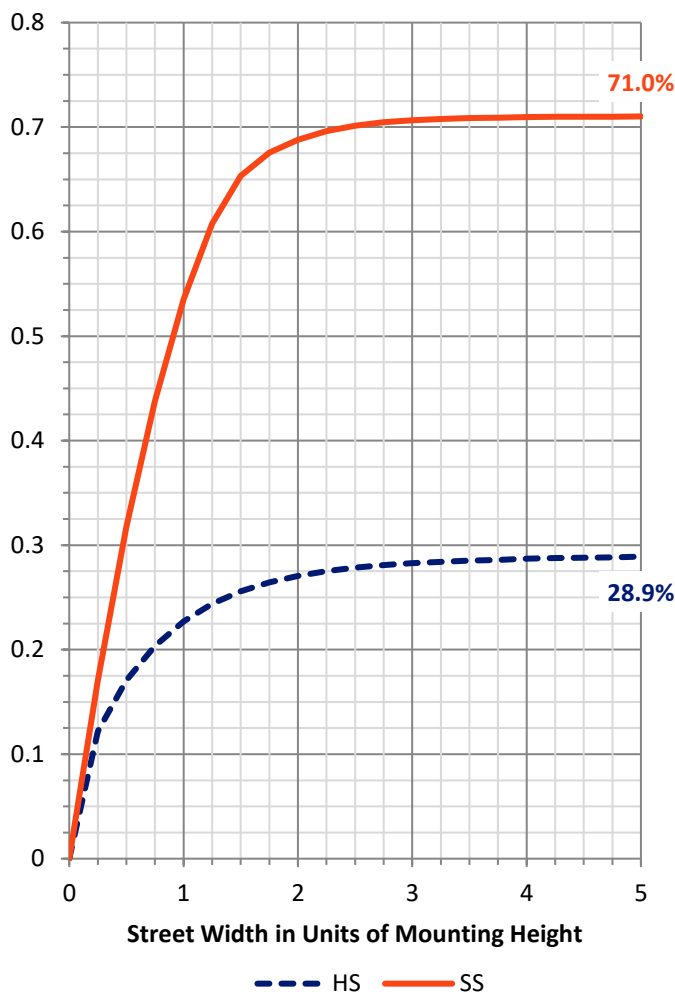
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2588.5	0.0	2588.5
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	6315.6	0.0	6315.6
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	8904.1	0.0	8904.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.5	3.4
10°-20°	717.0	8.1
20°-30°	992.2	11.1
30°-40°	1378.7	15.5
40°-50°	1820.8	20.4
50°-60°	2163.8	24.3
60°-70°	1198.8	13.5
70°-80°	298.5	3.4
80°-90°	33.9	0.4
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°	8904.1	100.0
0°-180°	8904.1	100.0

**Coefficient of Utilization**



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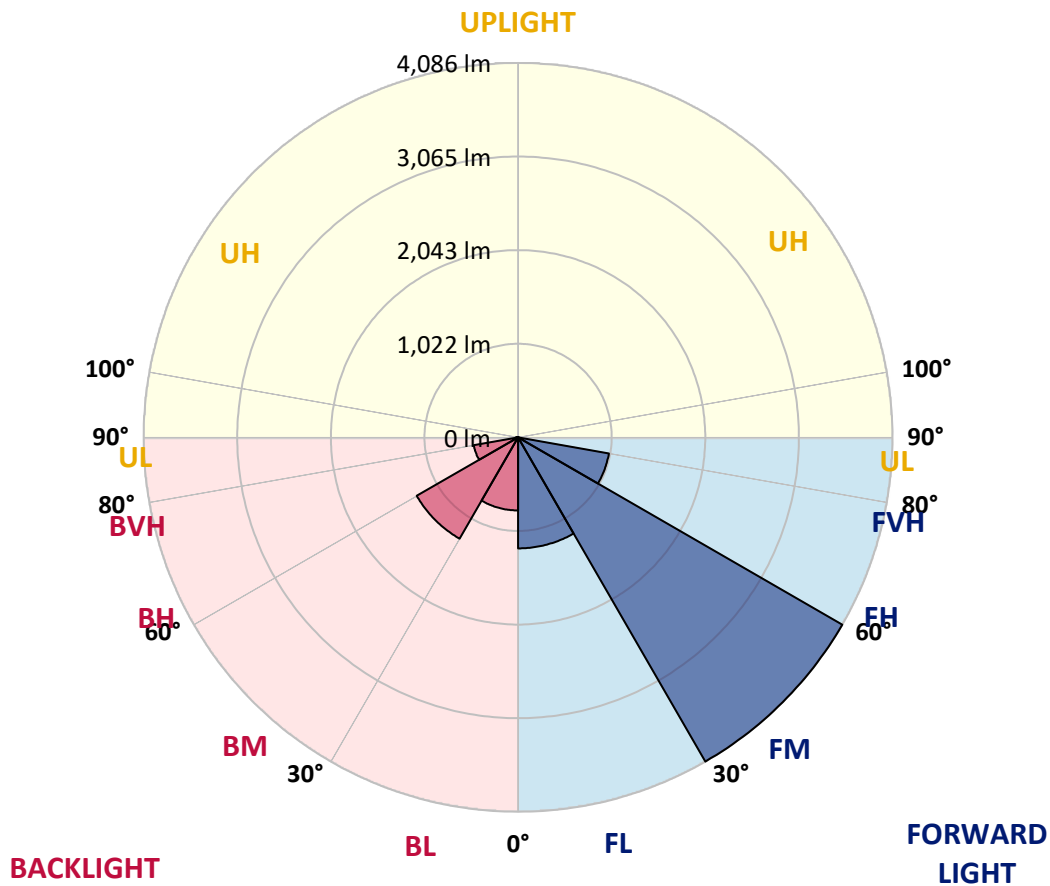
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.0	13.6			
FM (30°-60°)	4086.2	45.9			
FH (60°-80°)	1006.7	11.3			G1/1800
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	797.7	9.0	B2/1000		
BM (30°-60°)	1277.0	14.3	B2/2500		
BH (60°-80°)	490.5	5.5	B1/500		G1/500
BVH (80°-90°)	23.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5
2.5°	3354.5	3361.3	3365.9	3381.9	3395.6	3407.8	3420.8	3420.8	3420.0	3417.7	3413.2
5°	3221.8	3229.5	3240.1	3262.2	3292.0	3313.3	3348.4	3351.4	3366.7	3372.8	3369.7
7.5°	3067.9	3070.2	3083.9	3112.8	3160.1	3198.2	3248.5	3254.6	3291.2	3312.5	3308.7
10°	2899.4	2891.8	2916.2	2958.9	3020.6	3084.6	3149.4	3154.8	3213.5	3253.9	3250.8
12.5°	2745.5	2746.2	2770.6	2822.4	2899.4	2978.7	3065.6	3077.8	3150.2	3202.0	3196.7
15°	2616.6	2619.7	2649.4	2708.1	2795.8	2890.3	2998.5	3009.9	3101.4	3170.0	3154.8
17.5°	2513.7	2516.8	2542.7	2609.8	2703.5	2817.9	2949.7	2961.2	3074.7	3156.3	3125.0
20°	2442.9	2441.3	2466.5	2530.5	2627.3	2751.6	2907.0	2923.8	3066.3	3161.6	3105.2
22.5°	2413.9	2413.1	2431.4	2484.0	2574.7	2700.5	2881.1	2904.0	3075.5	3185.3	3093.0
25°	2428.4	2425.3	2441.3	2480.2	2552.6	2680.7	2888.8	2913.1	3114.4	3234.0	3095.3
27.5°	2473.4	2469.5	2483.3	2518.3	2573.2	2701.3	2942.1	2970.3	3196.7	3323.2	3125.8
30°	2542.0	2539.7	2553.4	2586.9	2634.9	2769.9	3044.2	3076.3	3324.0	3461.9	3192.1
32.5°	2622.0	2618.2	2642.6	2681.4	2737.1	2894.9	3181.4	3223.4	3474.9	3640.3	3303.4
35°	2711.9	2708.9	2742.4	2798.8	2878.8	3068.6	3347.6	3393.3	3628.9	3842.3	3451.3
37.5°	2799.6	2799.6	2864.4	2948.2	3048.8	3257.7	3503.9	3532.8	3735.6	4021.4	3609.8
40°	2877.3	2881.9	2979.5	3105.2	3233.3	3428.4	3606.8	3631.1	3782.8	4144.9	3747.8
42.5°	2963.5	2967.3	3080.8	3245.5	3397.9	3566.4	3669.3	3681.4	3792.0	4206.6	3845.3
45°	3032.0	3037.4	3178.4	3354.5	3541.2	3670.0	3718.8	3729.5	3804.9	4240.1	3916.2
47.5°	3067.9	3075.5	3237.1	3442.1	3638.0	3763.0	3800.4	3804.9	3858.3	4298.8	4001.6
50°	3061.8	3077.0	3259.2	3485.6	3709.6	3856.8	3931.4	3939.1	3967.3	4385.0	4101.4
52.5°	3115.9	3122.8	3306.4	3537.4	3811.8	4029.8	4159.3	4170.0	4157.1	4449.7	4160.9
55°	3026.0	3058.7	3247.8	3529.8	3967.3	4297.3	4497.0	4491.7	4329.3	4522.2	4260.0
57.5°	2447.4	2495.5	2668.5	2996.2	3711.2	4484.8	4749.3	4736.3	4462.7	4577.8	4367.4
60°	1694.4	1702.0	1858.3	2090.7	2864.4	3961.9	4675.4	4703.6	4487.1	4507.7	4168.5
62.5°	1355.2	1352.9	1367.4	1373.5	1821.7	2785.1	3690.6	3793.5	3727.9	3512.2	2954.3
65°	1157.0	1165.4	1208.1	1186.0	1189.0	1568.6	2205.1	2219.5	2173.8	2096.1	1562.5
67.5°	905.5	920.0	995.4	1081.6	1054.1	1009.9	1144.1	1137.2	896.4	693.6	573.2
70°	567.1	576.2	657.0	849.1	917.7	829.3	735.5	732.5	480.2	394.8	432.9
72.5°	330.8	332.3	355.2	473.3	609.0	567.1	541.2	521.3	308.7	314.8	345.3
75°	182.2	182.2	181.4	204.3	240.1	212.7	205.8	200.5	206.6	234.0	256.9
77.5°	38.1	38.9	41.2	54.1	70.1	85.4	107.5	108.2	134.9	156.3	174.5
80°	17.5	18.3	22.9	29.0	37.3	49.5	65.5	66.3	81.6	98.3	110.5
82.5°	9.1	9.9	12.2	15.2	19.8	25.9	36.6	36.6	48.8	57.9	65.5
85°	3.0	3.0	4.6	6.1	8.4	10.7	14.5	14.5	21.3	28.2	32.8
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	3.0	3.0	3.8	4.6	7.6
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°	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5	3418.5
2.5°	3403.2	3379.6	3380.4	3384.9	3370.5	3348.4	3333.9	3315.6	3304.2	3301.9	3310.3
5°	3354.5	3327.0	3308.0	3288.1	3247.0	3198.2	3160.1	3128.8	3108.3	3100.6	3091.5
7.5°	3287.4	3251.6	3203.5	3147.9	3073.2	2986.3	2925.3	2868.2	2828.5	2817.1	2811.8
10°	3220.3	3168.5	3083.1	2979.5	2855.2	2737.8	2627.3	2542.7	2475.6	2437.5	2449.7
12.5°	3151.0	3086.9	2953.5	2794.2	2621.2	2444.4	2299.6	2159.3	2051.1	1997.0	1981.0
15°	3090.0	3003.1	2817.1	2601.4	2371.2	2148.7	1939.0	1728.7	1591.5	1516.8	1496.2
17.5°	3038.1	2925.3	2673.1	2404.8	2129.6	1812.5	1554.9	1359.8	1266.0	1224.9	1221.8
20°	2987.1	2849.1	2530.5	2192.9	1850.6	1495.4	1265.3	1173.8	1140.3	1125.8	1125.0
22.5°	2941.3	2769.1	2380.4	1981.0	1573.2	1256.9	1130.3	1090.7	1081.6	1081.6	1080.0
25°	2902.5	2689.1	2226.4	1756.1	1322.4	1118.9	1060.2	1043.5	1047.3	1054.1	1054.9
27.5°	2886.5	2626.6	2077.8	1525.2	1149.4	1038.9	1012.2	1009.9	1020.6	1031.3	1032.8
30°	2903.2	2583.9	1925.3	1304.1	1045.7	990.1	977.9	982.5	995.4	1006.1	1006.1
32.5°	2955.1	2562.5	1769.8	1142.5	985.5	955.8	952.0	956.6	966.5	972.6	973.3
35°	3042.7	2570.9	1609.0	1033.5	946.7	930.7	929.9	932.9	936.7	940.6	941.3
37.5°	3153.2	2608.3	1436.8	970.3	921.5	912.4	910.8	910.1	910.8	910.8	911.6
40°	3261.5	2664.7	1282.8	932.9	904.0	896.4	892.5	887.2	886.4	884.9	884.2
42.5°	3341.5	2708.1	1160.1	906.3	888.0	878.8	874.2	865.9	865.1	864.3	863.6
45°	3401.7	2744.7	1057.9	880.3	871.2	862.8	852.9	845.3	846.8	848.3	848.3
47.5°	3469.6	2776.7	983.2	856.0	850.6	842.2	830.0	824.7	830.0	835.4	835.4
50°	3551.9	2821.7	922.3	831.6	829.3	819.4	808.7	806.4	812.5	820.1	820.1
52.5°	3612.1	2860.6	878.8	807.2	807.2	794.2	785.1	784.3	791.2	798.8	799.6
55°	3724.9	2951.3	863.6	779.0	775.9	766.0	759.2	753.8	762.2	769.1	769.1
57.5°	3852.2	3071.7	867.4	738.6	734.8	731.7	726.4	720.3	722.6	730.2	731.0
60°	3582.4	2838.4	825.5	698.2	695.9	694.4	687.5	676.8	679.9	686.0	686.7
62.5°	2502.3	1886.5	667.7	647.9	655.5	654.7	645.6	633.4	634.2	642.5	642.5
65°	1298.8	1020.6	586.1	602.1	613.6	609.0	593.8	583.1	581.6	592.2	589.9
67.5°	560.2	557.2	533.5	554.1	566.3	556.4	540.4	522.9	524.4	528.2	525.2
70°	451.2	464.9	474.9	497.0	506.9	488.6	471.0	461.1	452.7	452.0	446.7
72.5°	360.5	379.6	401.7	424.5	427.6	409.3	387.2	378.1	365.1	364.3	359.0
75°	271.3	287.4	304.9	323.2	323.2	305.6	291.2	286.6	271.3	266.8	262.2
77.5°	185.2	195.1	208.8	213.4	218.0	211.1	196.6	189.0	171.5	166.9	160.8
80°	116.6	123.5	131.9	134.9	139.5	131.1	119.7	111.3	99.1	95.3	92.2
82.5°	70.1	74.7	80.0	81.6	85.4	79.3	68.6	62.5	55.6	52.6	50.3
85°	35.8	38.1	41.2	41.9	41.2	35.1	31.3	28.2	23.6	22.9	21.3
87.5°	9.1	10.7	11.4	10.7	9.9	7.6	5.3	3.8	1.5	1.5	0.8
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)