

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: P632866

Luminaire Tested: GWS-SA2D-750-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-750-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11702.6 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
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

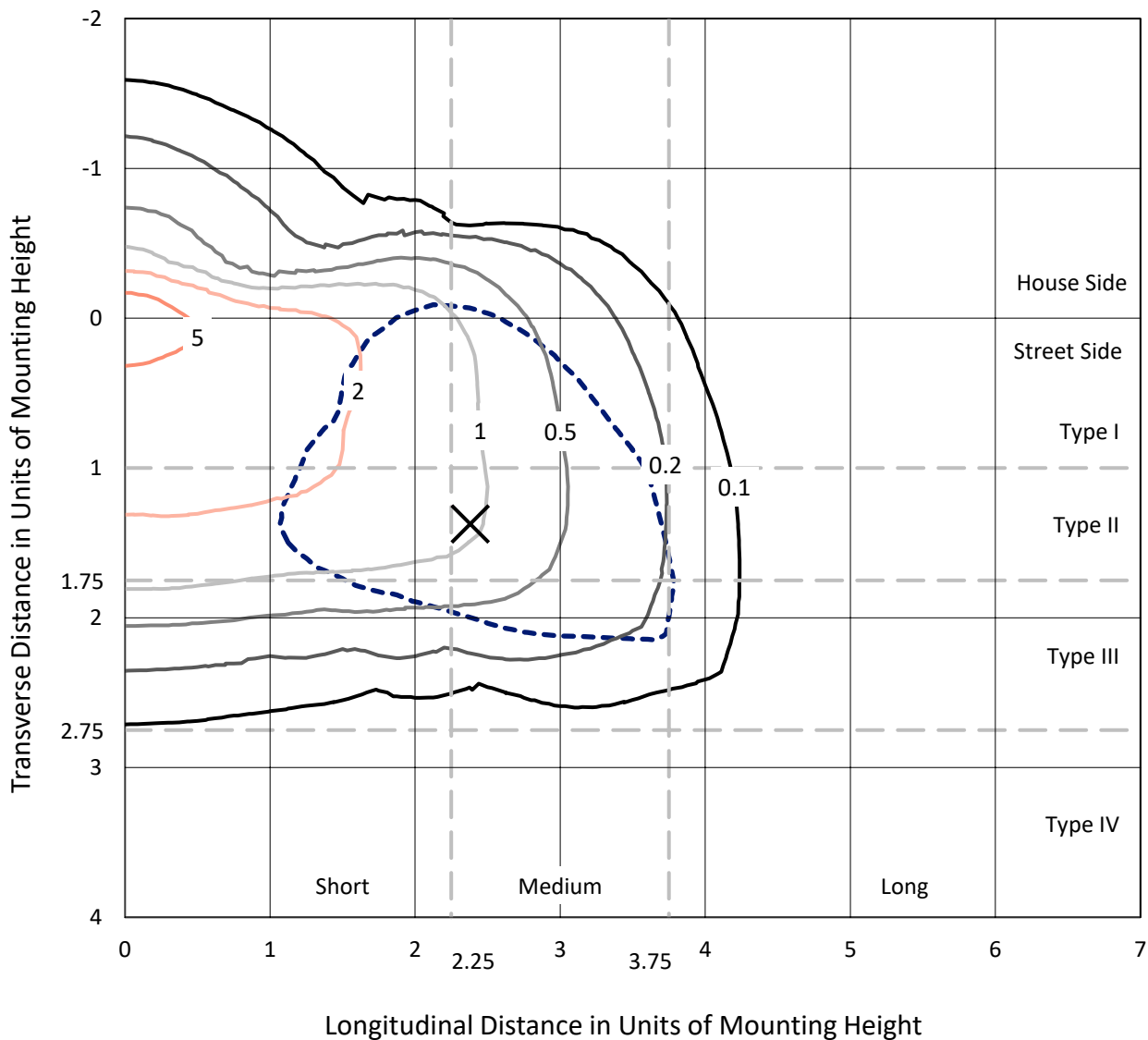


REPORT NUMBER: P632866

CATALOG NUMBER: GWS-SA2D-750-U-SL3-W

### Iso-Footcandle Lines of Horizontal Illumination

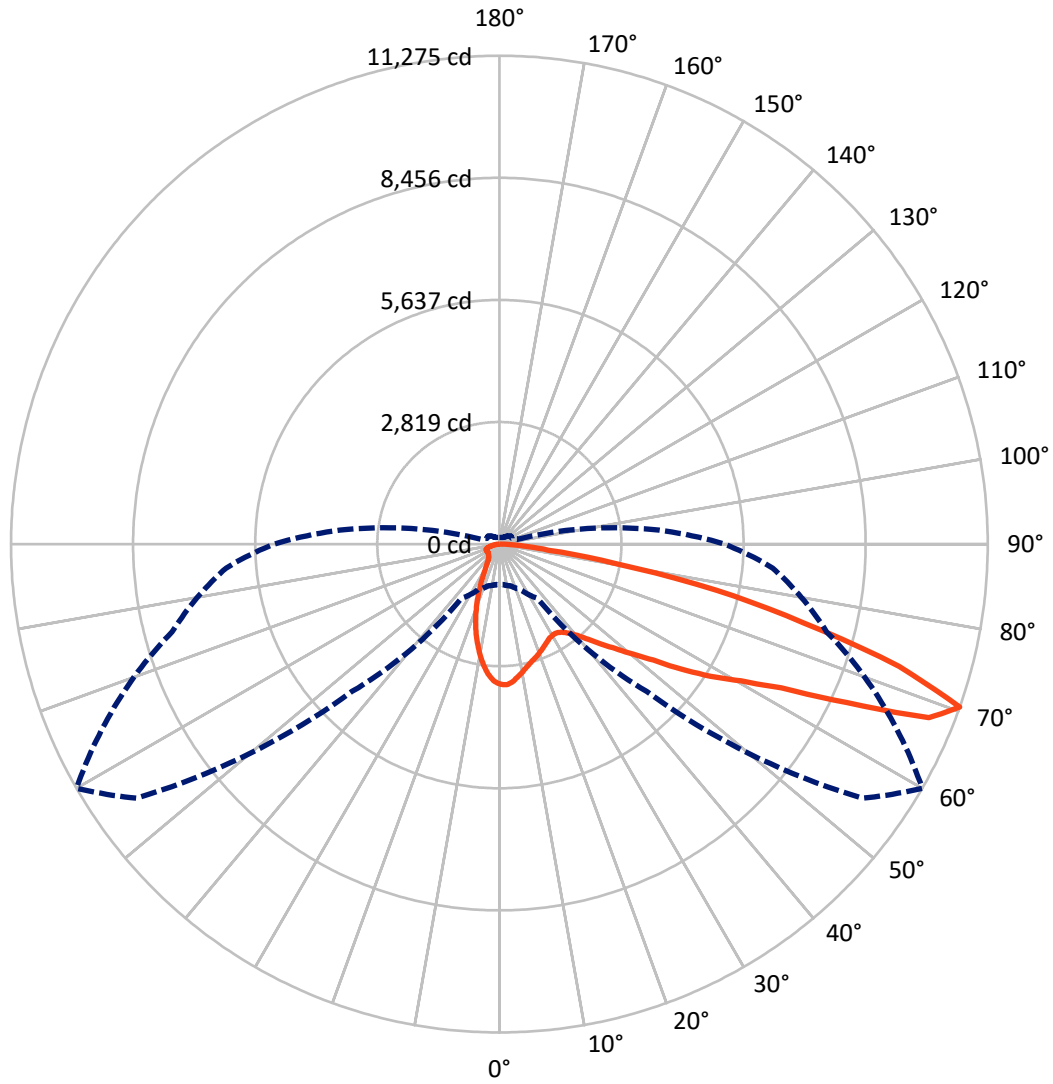
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P632866  
CATALOG NUMBER: GWS-SA2D-750-U-SL3-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P632866

CATALOG NUMBER: GWS-SA2D-750-U-SL3-W

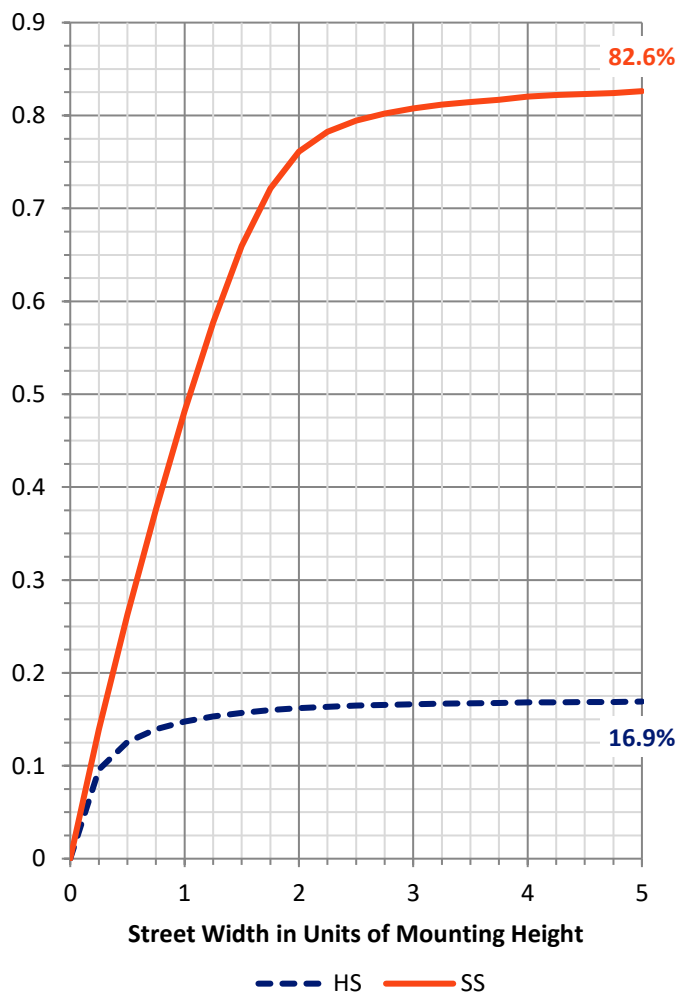
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2001.4	0.0	2001.4
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	9701.2	0.0	9701.2
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	11702.6	0.0	11702.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.1	2.4
10°-20°	625.3	5.3
20°-30°	800.8	6.8
30°-40°	1052.5	9.0
40°-50°	1527.0	13.0
50°-60°	2382.5	20.4
60°-70°	3119.1	26.7
70°-80°	1724.8	14.7
80°-90°	191.4	1.6
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°	11702.6	100.0
0°-180°	11702.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632866

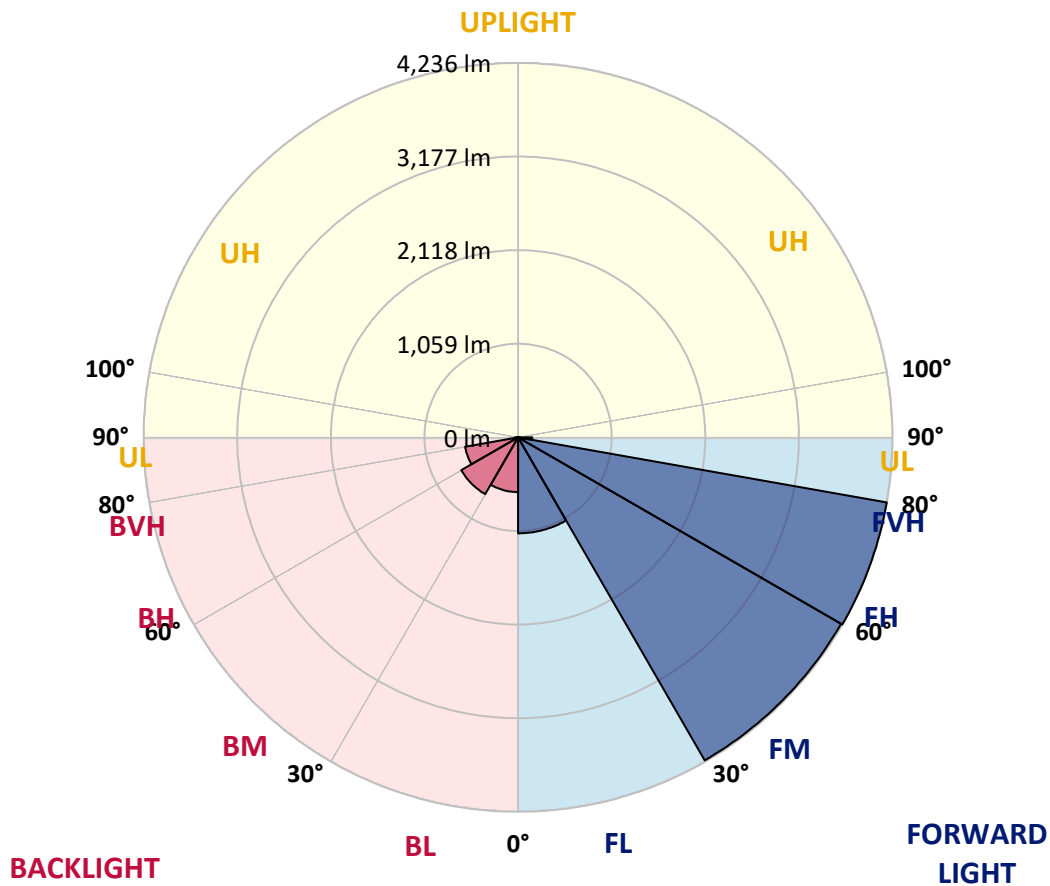
CATALOG NUMBER: GWS-SA2D-750-U-SL3-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.1	9.3			
FM (30°-60°)	4219.9	36.1			
FH (60°-80°)	4235.7	36.2			G2/5000
FVH (80°-90°)	159.5	1.4			G2/225
BL (0°-30°)	619.2	5.3	B2/1000		
BM (30°-60°)	742.1	6.3	B1/1000		
BH (60°-80°)	608.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	31.9	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-G2**

Type III Medium





REPORT NUMBER: P632866  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3
2.5°	3192.9	3196.3	3205.7	3219.4	3233.1	3240.0	3257.1	3252.0	3248.5	3241.7	3233.1
5°	3051.6	3058.5	3067.0	3093.6	3123.5	3147.5	3186.0	3190.3	3192.0	3195.4	3181.7
7.5°	2871.8	2873.5	2894.1	2929.2	2968.5	3009.6	3073.9	3091.8	3107.3	3124.4	3113.3
10°	2673.1	2677.4	2692.8	2743.4	2811.0	2871.8	2958.3	2988.2	3020.8	3058.5	3043.0
12.5°	2510.5	2511.3	2536.2	2590.1	2663.7	2745.9	2853.8	2889.8	2932.6	2991.7	2978.0
15°	2381.2	2381.2	2404.3	2450.5	2535.3	2632.1	2760.5	2806.7	2864.9	2944.6	2920.6
17.5°	2278.4	2279.3	2293.8	2342.6	2418.0	2525.0	2677.4	2739.9	2804.2	2909.5	2873.5
20°	2224.5	2220.2	2222.8	2252.7	2317.0	2420.6	2594.4	2667.2	2753.6	2885.5	2830.7
22.5°	2221.9	2214.2	2203.1	2205.6	2243.3	2328.9	2505.3	2593.5	2702.3	2865.8	2787.0
25°	2265.6	2257.0	2237.3	2215.1	2211.6	2263.0	2421.4	2521.6	2649.2	2857.2	2745.1
27.5°	2339.2	2333.2	2307.5	2274.1	2239.0	2237.3	2358.1	2462.5	2610.6	2865.8	2715.1
30°	2436.8	2426.6	2410.3	2367.5	2314.4	2259.6	2333.2	2430.8	2585.0	2893.2	2702.3
32.5°	2547.3	2541.3	2525.9	2483.1	2426.6	2339.2	2352.9	2437.7	2585.0	2941.1	2704.8
35°	2664.6	2663.7	2663.7	2635.5	2573.0	2464.2	2430.8	2495.9	2624.3	3018.2	2732.2
37.5°	2778.5	2777.6	2805.0	2815.3	2744.2	2626.9	2563.6	2612.4	2710.8	3132.1	2799.9
40°	2870.9	2874.4	2934.3	2985.7	2946.3	2837.5	2748.5	2773.3	2851.2	3293.9	2918.0
42.5°	2964.3	2973.7	3063.6	3154.4	3169.8	3075.6	2985.7	3000.2	3052.5	3508.0	3094.4
45°	3066.2	3070.4	3196.3	3323.0	3397.5	3341.9	3268.2	3287.9	3299.9	3772.5	3357.3
47.5°	3164.6	3175.8	3338.4	3512.3	3653.5	3648.4	3607.3	3601.3	3603.9	4094.5	3668.1
50°	3299.1	3315.3	3506.3	3716.0	3923.2	4018.3	4030.3	3984.9	3966.1	4452.4	4055.1
52.5°	3554.2	3554.2	3725.5	3931.8	4210.1	4445.5	4526.0	4451.5	4391.6	4830.8	4466.1
55°	3873.6	3887.3	4023.4	4190.4	4543.2	4895.1	5167.3	5085.1	4915.6	5242.7	4896.8
57.5°	4015.7	4032.8	4248.6	4508.0	4979.0	5406.2	5783.8	5754.7	5507.3	5670.8	5343.7
60°	3758.8	3794.8	4091.9	4526.9	5373.7	6230.8	6497.1	6412.3	6058.7	6120.3	5828.4
62.5°	3135.5	3174.9	3504.5	4111.6	5318.9	7122.1	7621.3	7308.8	6747.1	6688.0	6474.0
65°	1870.9	1869.1	2265.6	3070.4	4643.3	7369.6	9400.5	8817.5	7810.5	7467.2	7138.4
67.5°	1189.3	1186.7	1269.8	1626.8	3090.1	6763.4	10544.5	10696.0	9255.0	8040.0	7193.2
70°	938.4	937.6	997.5	1160.2	1528.4	4812.9	10226.0	11274.8	10127.5	7821.7	6333.5
72.5°	684.1	685.8	778.3	971.8	1179.0	2416.3	8280.6	9647.1	9314.9	6904.6	5141.7
75°	491.5	494.0	549.7	744.1	1087.4	1321.2	5506.4	7254.0	7087.0	5534.7	3537.1
77.5°	312.5	315.9	364.8	521.4	878.5	1066.9	3338.4	5121.1	4715.3	3118.4	1257.8
80°	190.9	202.1	243.2	388.7	702.1	800.6	1668.8	2698.0	2361.5	855.4	423.0
82.5°	98.5	107.0	146.4	240.6	483.8	703.0	944.4	1133.6	731.2	357.9	225.2
85°	30.8	36.0	51.4	97.6	230.3	435.8	625.0	563.4	335.6	168.7	104.5
87.5°	7.7	7.7	8.6	8.6	9.4	19.7	120.7	127.6	89.0	53.1	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632866  
 CATALOG NUMBER: GWS-SA2D-750-U-SL3-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3
2.5°	3216.0	3195.4	3186.9	3186.0	3164.6	3133.8	3113.3	3098.7	3090.1	3088.4	3088.4
5°	3158.6	3132.1	3097.0	3070.4	3013.1	2954.8	2906.0	2878.6	2847.0	2842.7	2841.8
7.5°	3082.4	3043.9	2977.1	2902.6	2802.4	2705.7	2623.5	2567.8	2512.2	2501.9	2498.5
10°	3000.2	2948.0	2834.1	2703.1	2553.3	2408.6	2282.7	2184.2	2119.2	2072.9	2064.4
12.5°	2918.9	2849.5	2682.6	2487.3	2281.9	2084.1	1894.8	1733.9	1617.4	1549.8	1537.8
15°	2842.7	2745.9	2517.3	2268.2	2001.0	1730.4	1462.4	1253.5	1090.0	1031.8	1018.1
17.5°	2773.3	2652.6	2357.2	2041.3	1708.2	1354.6	1049.7	863.9	768.0	738.9	732.1
20°	2704.0	2556.7	2194.5	1802.4	1397.4	1000.9	767.2	679.8	643.9	632.8	629.3
22.5°	2629.5	2451.4	2017.3	1566.9	1083.1	749.2	627.6	589.1	578.0	578.8	578.0
25°	2555.0	2344.4	1831.5	1310.9	806.6	607.9	548.0	533.4	536.0	543.7	545.4
27.5°	2493.3	2249.3	1649.1	1030.0	630.2	523.2	494.9	494.0	503.5	513.7	515.5
30°	2448.8	2164.5	1469.3	792.0	518.9	464.9	453.8	458.9	470.1	477.8	480.3
32.5°	2417.1	2091.8	1277.5	622.5	454.7	423.8	418.7	423.8	430.7	438.4	440.1
35°	2406.0	2038.7	1089.1	507.7	411.0	393.9	390.4	393.0	396.4	400.7	402.4
37.5°	2430.8	2012.1	892.2	441.8	384.4	374.2	369.0	367.3	368.2	369.9	370.7
40°	2504.5	2024.1	731.2	403.3	367.3	357.9	349.3	345.9	345.1	346.8	345.9
42.5°	2631.2	2074.6	614.8	381.0	353.6	339.9	330.5	327.1	327.1	331.4	331.4
45°	2817.0	2174.0	530.9	364.8	341.6	324.5	314.2	312.5	315.9	322.8	323.7
47.5°	3089.3	2319.5	480.3	352.8	330.5	310.8	300.5	299.7	306.5	317.7	318.5
50°	3412.1	2529.3	452.9	344.2	322.8	299.7	289.4	290.3	298.0	310.0	312.5
52.5°	3800.8	2815.3	454.7	340.8	318.5	292.8	282.6	280.8	288.5	300.5	303.1
55°	4202.4	3162.9	488.1	341.6	312.5	289.4	275.7	269.7	276.6	285.1	286.0
57.5°	4644.2	3555.1	571.1	339.9	304.8	286.0	269.7	256.0	260.3	265.4	268.0
60°	5142.5	4016.6	750.1	343.3	301.4	278.3	257.7	239.7	238.9	242.3	243.2
62.5°	5808.7	4644.2	951.3	349.3	309.1	268.9	239.7	220.9	217.5	219.2	220.1
65°	6318.1	4943.9	887.9	344.2	325.4	262.0	222.6	202.9	196.1	194.4	194.4
67.5°	6110.9	4547.4	618.2	330.5	333.1	262.9	208.9	184.1	175.5	171.2	170.4
70°	5199.9	3693.8	429.8	316.8	324.5	261.2	194.4	168.7	157.5	151.6	150.7
72.5°	4108.2	2820.4	347.6	289.4	294.5	235.5	173.0	151.6	142.1	134.4	134.4
75°	2644.0	1721.0	290.3	257.7	240.6	183.2	149.8	135.3	125.9	118.2	118.2
77.5°	889.6	638.7	225.2	218.3	179.8	137.9	125.9	116.4	108.7	101.9	101.0
80°	361.3	303.1	165.3	165.3	125.9	105.3	98.5	94.2	89.0	80.5	80.5
82.5°	209.8	184.1	115.6	100.2	83.9	72.8	68.5	64.2	64.2	58.2	58.2
85°	101.0	101.9	69.4	61.6	47.9	42.0	40.2	37.7	36.8	33.4	32.5
87.5°	54.8	55.7	35.1	27.4	18.8	16.3	13.7	12.8	12.0	11.1	11.1
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)