

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: STREETWORKS

Report Number: P387002

Luminaire Tested: GAW-SA2D-727-U-SL3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-727-U-SL3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11568 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

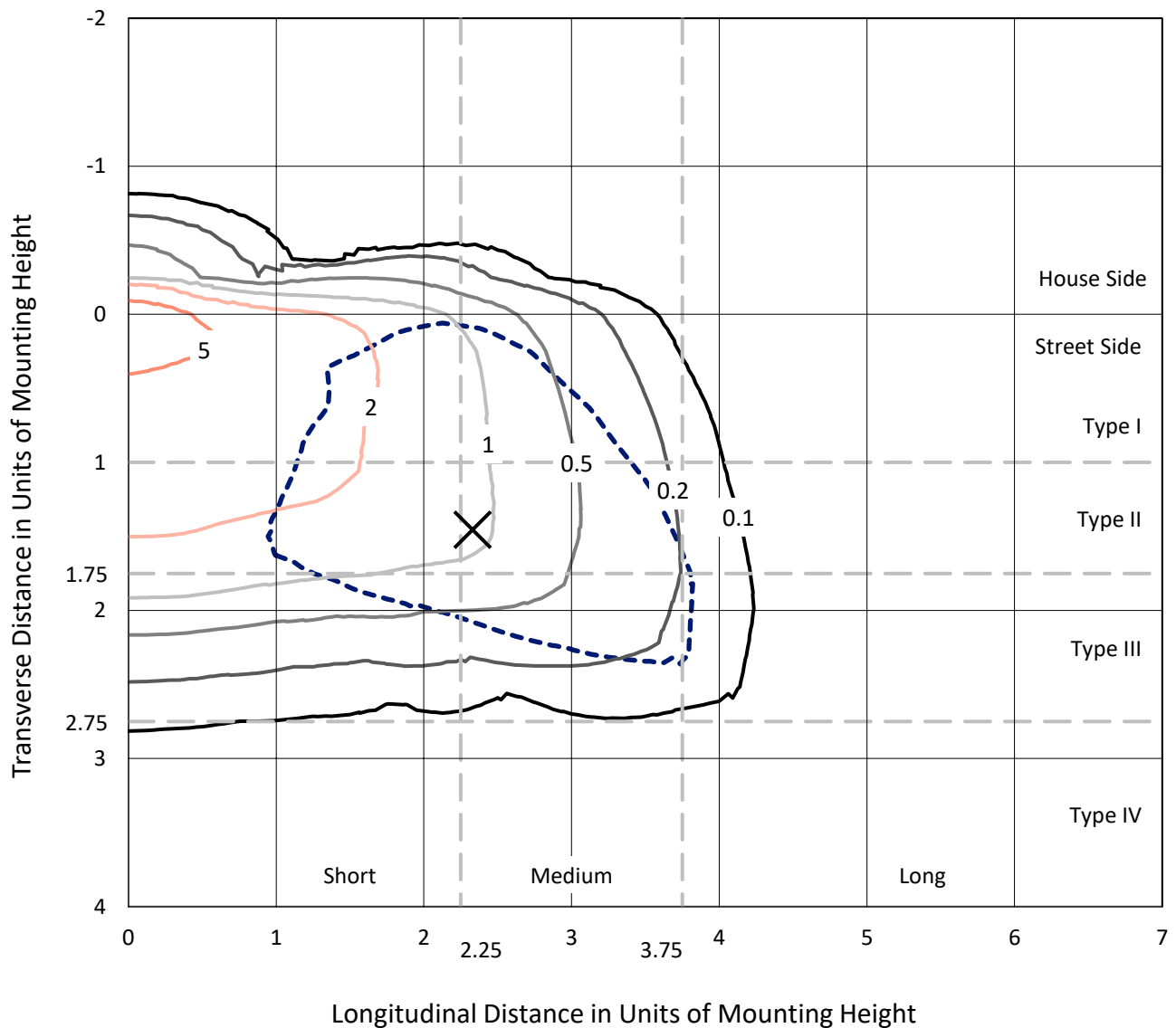




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### Iso-Footcandle Lines of Horizontal Illumination

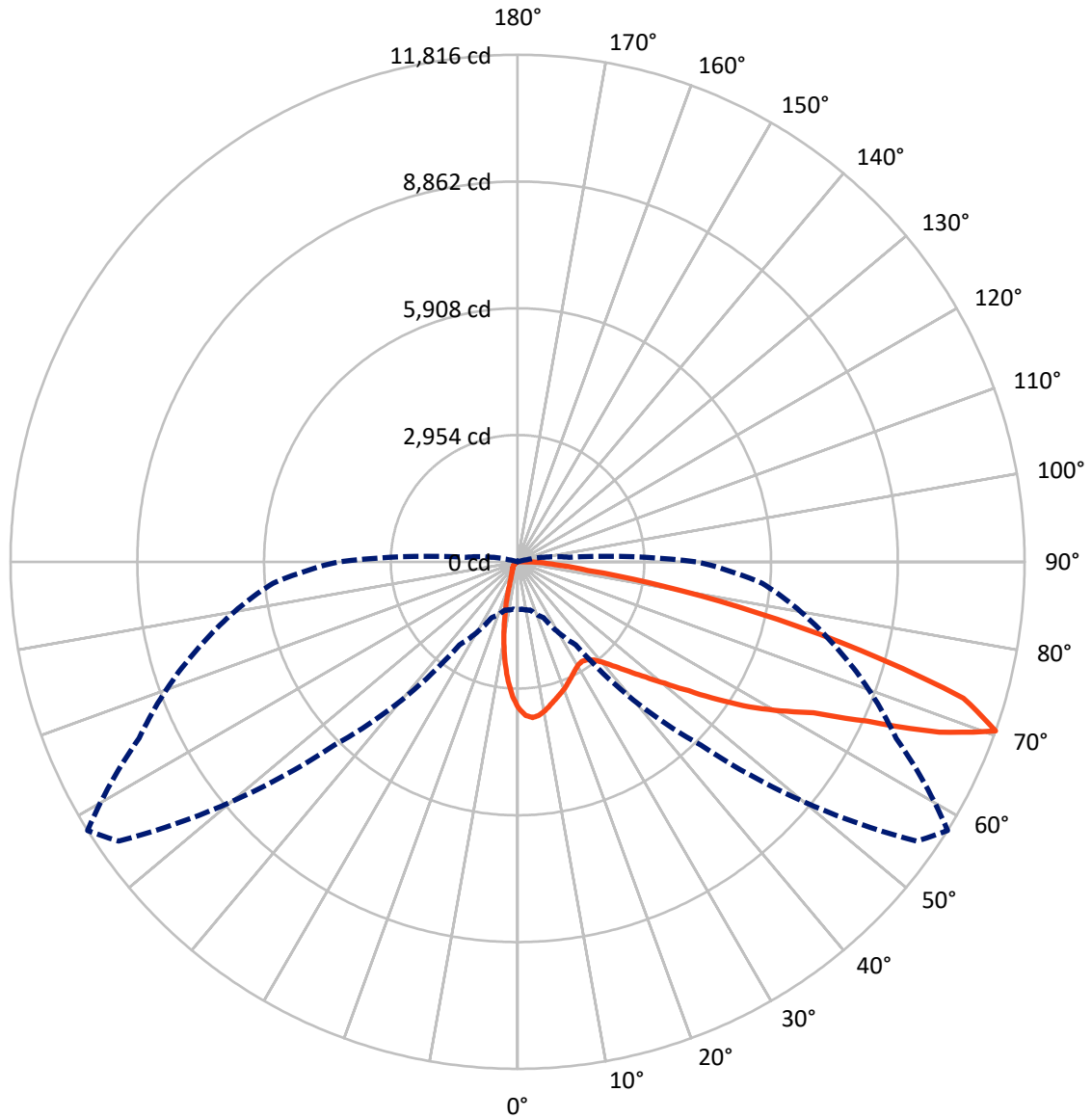
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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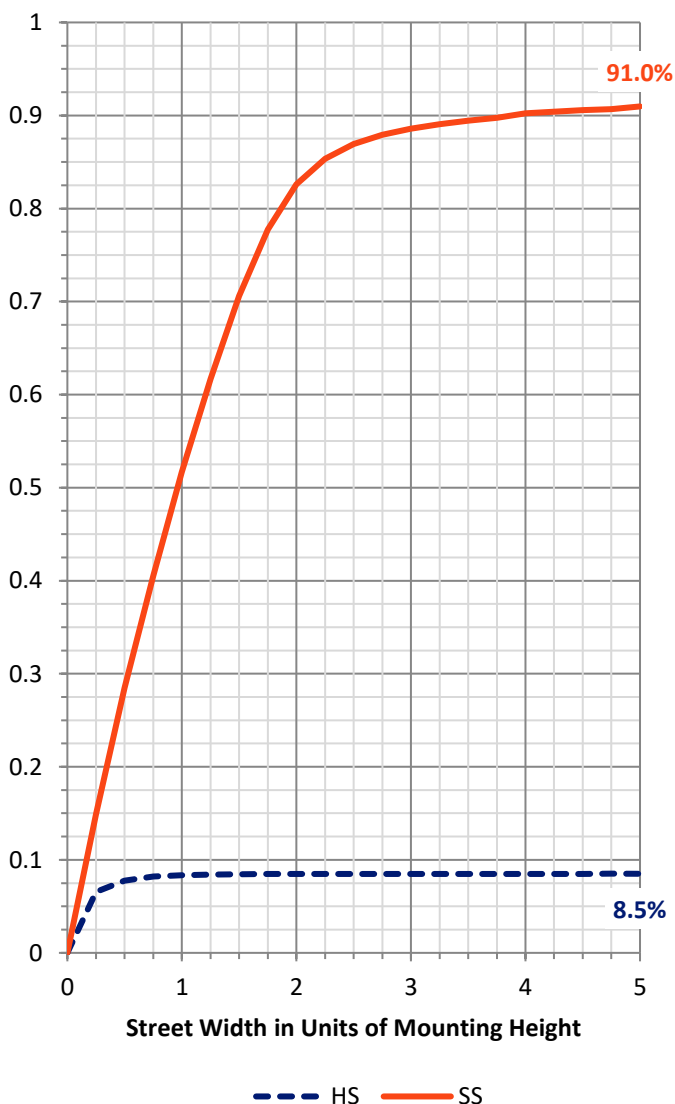
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	990.0	0.0	990.0
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	10578.0	0.0	10578.0
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	11568.0	0.0	11568.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.4	2.4
10°-20°	586.5	5.1
20°-30°	771.0	6.7
30°-40°	1021.1	8.8
40°-50°	1526.2	13.2
50°-60°	2445.0	21.1
60°-70°	3081.9	26.6
70°-80°	1662.3	14.4
80°-90°	194.6	1.7
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°	11568.0	100.0
0°-180°	11568.0	100.0

**Coefficient of Utilization**



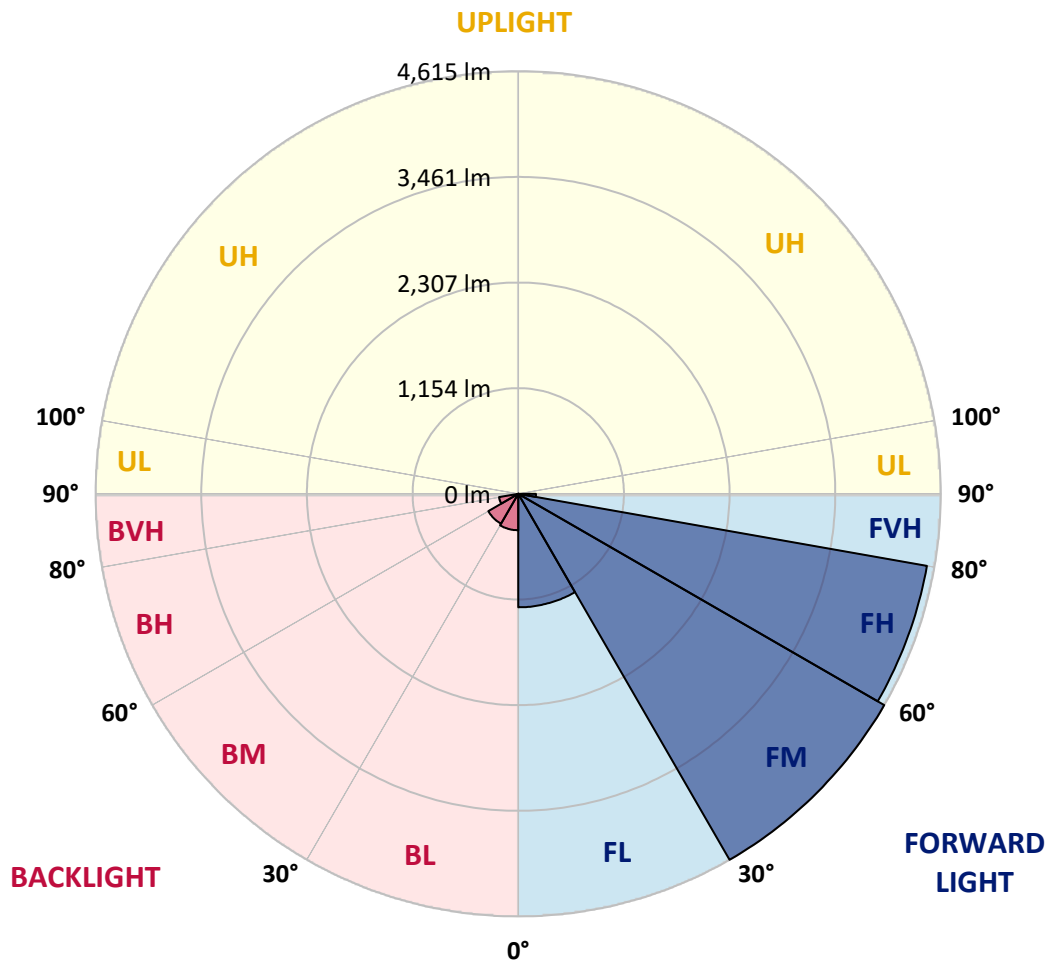
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.2	10.7			
FM (30°-60°)	4614.7	39.9			
FH (60°-80°)	4531.3	39.2			G2/5000
FVH (80°-90°)	192.9	1.7			G2/225
BL (0°-30°)	397.7	3.4	B1/500		
BM (30°-60°)	377.7	3.3	B1/1000		
BH (60°-80°)	212.9	1.8	B1/500		G1/500
BVH (80°-90°)	1.7	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1
2.5°	3700.5	3691.3	3687.9	3682.2	3660.0	3638.4	3595.6	3583.6	3556.6	3492.7	3424.8
5°	3703.3	3702.9	3713.0	3710.6	3702.9	3692.8	3662.0	3646.1	3600.4	3509.0	3384.9
7.5°	3524.9	3534.0	3556.6	3574.9	3596.1	3623.5	3627.3	3611.9	3574.4	3475.8	3311.3
10°	3285.3	3299.8	3331.5	3367.6	3422.9	3477.7	3526.8	3524.9	3511.9	3414.7	3222.8
12.5°	3045.3	3062.1	3098.7	3152.1	3230.5	3320.0	3407.5	3419.5	3441.2	3359.9	3141.0
15°	2835.1	2849.5	2885.6	2951.0	3048.2	3168.4	3296.9	3319.0	3374.8	3317.1	3072.7
17.5°	2656.6	2665.8	2692.2	2764.9	2877.4	3023.2	3190.1	3233.4	3316.6	3283.4	3013.6
20°	2532.1	2533.5	2550.8	2601.8	2714.4	2877.4	3079.5	3141.5	3255.0	3254.5	2952.5
22.5°	2470.5	2465.7	2469.1	2498.4	2581.1	2738.4	2968.8	3042.4	3199.7	3230.0	2890.4
25°	2459.0	2455.1	2445.5	2449.3	2499.4	2616.7	2857.2	2942.4	3151.1	3215.1	2836.5
27.5°	2495.0	2498.9	2482.5	2465.2	2469.1	2537.8	2758.1	2856.7	3111.7	3215.1	2798.5
30°	2567.7	2569.6	2557.6	2535.0	2504.6	2515.7	2689.4	2788.0	3092.0	3237.2	2774.5
32.5°	2648.0	2658.6	2657.1	2638.8	2595.6	2550.8	2673.0	2763.0	3090.5	3286.3	2772.1
35°	2747.6	2759.6	2779.8	2775.9	2730.7	2657.1	2728.8	2799.5	3118.9	3367.1	2798.1
37.5°	2853.4	2871.7	2915.0	2935.6	2906.3	2823.1	2853.9	2904.4	3194.9	3497.9	2864.0
40°	2955.8	2976.5	3055.4	3136.7	3114.6	3029.0	3043.4	3083.8	3330.1	3686.0	2989.0
42.5°	3056.4	3087.2	3203.1	3336.8	3363.3	3295.0	3302.7	3334.9	3530.7	3944.8	3193.5
45°	3176.6	3211.3	3383.0	3548.0	3618.7	3588.9	3621.6	3642.7	3792.8	4286.8	3469.1
47.5°	3353.2	3393.1	3603.8	3791.8	3915.9	3935.2	4001.1	4015.0	4124.2	4685.1	3828.4
50°	3697.6	3708.6	3899.1	4069.9	4248.8	4364.3	4439.3	4449.9	4525.4	5120.4	4277.2
52.5°	4131.0	4138.2	4245.9	4360.4	4563.9	4799.6	4975.1	4990.1	5005.9	5544.7	4720.2
55°	4561.5	4560.5	4631.7	4699.0	4931.8	5274.3	5655.3	5664.4	5550.4	5947.3	5058.8
57.5°	4830.4	4856.3	4964.6	5051.1	5376.3	5815.5	6344.1	6377.8	6122.4	6245.5	5393.6
60°	4744.7	4757.2	4997.3	5317.6	5930.0	6584.6	7041.1	7049.8	6552.4	6543.3	5816.9
62.5°	4042.5	4049.2	4426.3	5086.7	6210.4	7582.2	7881.9	7741.0	7046.9	6956.4	6323.4
65°	2770.6	2814.4	3129.5	3945.8	5695.2	8208.0	9183.5	8950.3	7800.6	7551.9	6781.4
67.5°	1631.6	1622.5	1778.3	2379.6	4182.9	7792.4	10830.1	10598.2	8828.6	7950.7	6647.1
70°	1114.5	1108.3	1167.9	1440.6	2361.3	6044.9	11348.1	11816.1	9736.2	7682.3	5720.7
72.5°	795.6	799.0	887.0	1119.3	1482.5	3522.0	9758.8	10866.6	9451.9	6697.2	4348.4
75°	540.2	549.3	675.3	918.3	1299.7	1791.8	6925.2	8260.5	7696.7	4867.4	2499.4
77.5°	290.5	300.6	449.3	739.8	1175.1	1244.9	4454.7	5685.1	4834.7	2188.1	724.4
80°	121.2	127.0	210.2	537.8	1015.4	1093.3	2621.1	3447.4	2060.2	431.5	161.6
82.5°	52.4	55.3	87.5	320.8	759.0	923.1	1387.7	1658.5	624.4	94.8	81.3
85°	10.1	10.6	36.1	169.8	484.4	520.9	899.5	881.7	280.4	40.9	59.2
87.5°	0.0	0.0	8.7	53.4	142.4	283.8	548.8	542.1	95.2	19.7	22.1
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°	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1	3417.1
2.5°	3390.2	3357.0	3287.3	3201.2	3135.3	3062.6	3004.9	2931.8	2900.0	2901.5	2884.2
5°	3314.2	3245.9	3091.5	2896.7	2746.6	2591.7	2458.5	2325.7	2247.3	2221.8	2197.8
7.5°	3205.5	3097.3	2851.0	2550.8	2296.8	2048.6	1832.7	1642.7	1522.4	1463.7	1442.1
10°	3082.8	2930.8	2574.4	2179.0	1816.3	1480.6	1200.6	957.2	860.1	794.2	777.3
12.5°	2975.1	2769.2	2304.1	1797.6	1367.0	962.0	695.1	543.5	477.6	451.7	447.3
15°	2873.6	2618.2	2043.8	1452.2	946.6	592.1	442.1	390.6	375.2	370.9	370.9
17.5°	2777.9	2474.3	1789.4	1112.1	626.3	415.1	366.1	354.5	349.7	349.2	349.7
20°	2677.8	2330.5	1539.2	814.8	437.2	351.6	338.2	331.9	330.5	330.5	330.5
22.5°	2582.1	2186.7	1295.9	582.0	350.7	320.8	314.1	309.8	308.3	307.8	306.9
25°	2490.2	2050.1	1058.2	411.3	307.8	293.9	288.1	282.4	278.0	275.6	274.2
27.5°	2414.7	1928.4	837.0	330.0	278.0	266.0	258.8	250.1	239.5	234.7	232.8
30°	2354.6	1817.3	645.0	278.5	250.1	238.1	227.0	212.1	196.7	188.6	188.1
32.5°	2307.4	1708.1	489.7	246.3	225.1	210.2	194.3	175.6	157.8	148.6	148.2
35°	2284.3	1611.9	374.2	222.7	203.0	184.2	164.5	143.8	126.5	117.8	116.9
37.5°	2299.7	1530.6	292.0	203.0	184.2	162.6	139.5	117.8	102.5	94.8	94.3
40°	2356.0	1478.6	237.1	186.2	168.4	141.9	116.9	96.7	83.7	77.4	77.0
42.5°	2475.8	1459.4	202.5	172.2	153.0	122.7	97.2	79.8	67.8	63.5	62.5
45°	2675.9	1487.8	178.9	158.7	137.1	104.4	80.3	65.4	54.8	51.5	51.0
47.5°	2942.4	1562.3	162.1	145.7	122.7	88.0	66.9	52.9	44.7	41.4	40.9
50°	3285.8	1680.7	148.2	132.8	109.2	74.6	55.3	41.8	34.6	32.2	32.2
52.5°	3659.6	1821.6	135.6	120.7	95.7	62.1	44.7	32.2	27.4	24.5	24.5
55°	3968.4	1944.7	122.2	111.6	79.4	51.5	34.2	24.5	20.2	18.8	18.8
57.5°	4276.7	2076.1	106.8	95.7	63.5	41.8	26.0	18.3	14.9	13.9	13.9
60°	4676.4	2236.7	91.9	77.9	50.0	31.7	19.2	13.0	11.1	10.6	10.6
62.5°	5116.1	2331.0	78.4	62.5	39.0	23.6	13.9	8.7	8.2	8.2	7.7
65°	5385.0	2197.8	65.9	50.0	30.3	17.8	9.1	6.3	7.2	6.7	5.8
67.5°	5042.0	1720.6	53.9	39.0	23.6	13.5	5.8	4.3	7.7	6.3	4.8
70°	4174.7	1204.5	41.8	27.4	18.8	11.5	3.8	2.9	8.2	6.3	3.8
72.5°	3124.2	806.2	33.2	18.3	13.9	10.1	3.4	1.4	7.2	5.3	3.4
75°	1707.1	324.7	26.5	11.5	8.7	7.2	2.4	1.0	4.8	3.8	2.4
77.5°	449.3	85.6	19.2	7.7	4.8	2.9	1.4	0.5	2.4	1.9	1.0
80°	114.5	33.2	12.5	5.3	3.4	1.4	0.0	0.0	0.5	0.0	0.0
82.5°	61.1	13.9	7.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.2	9.1	4.3	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	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)