

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480653

Luminaire Tested: **IFLD-S-SA3B-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480653  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

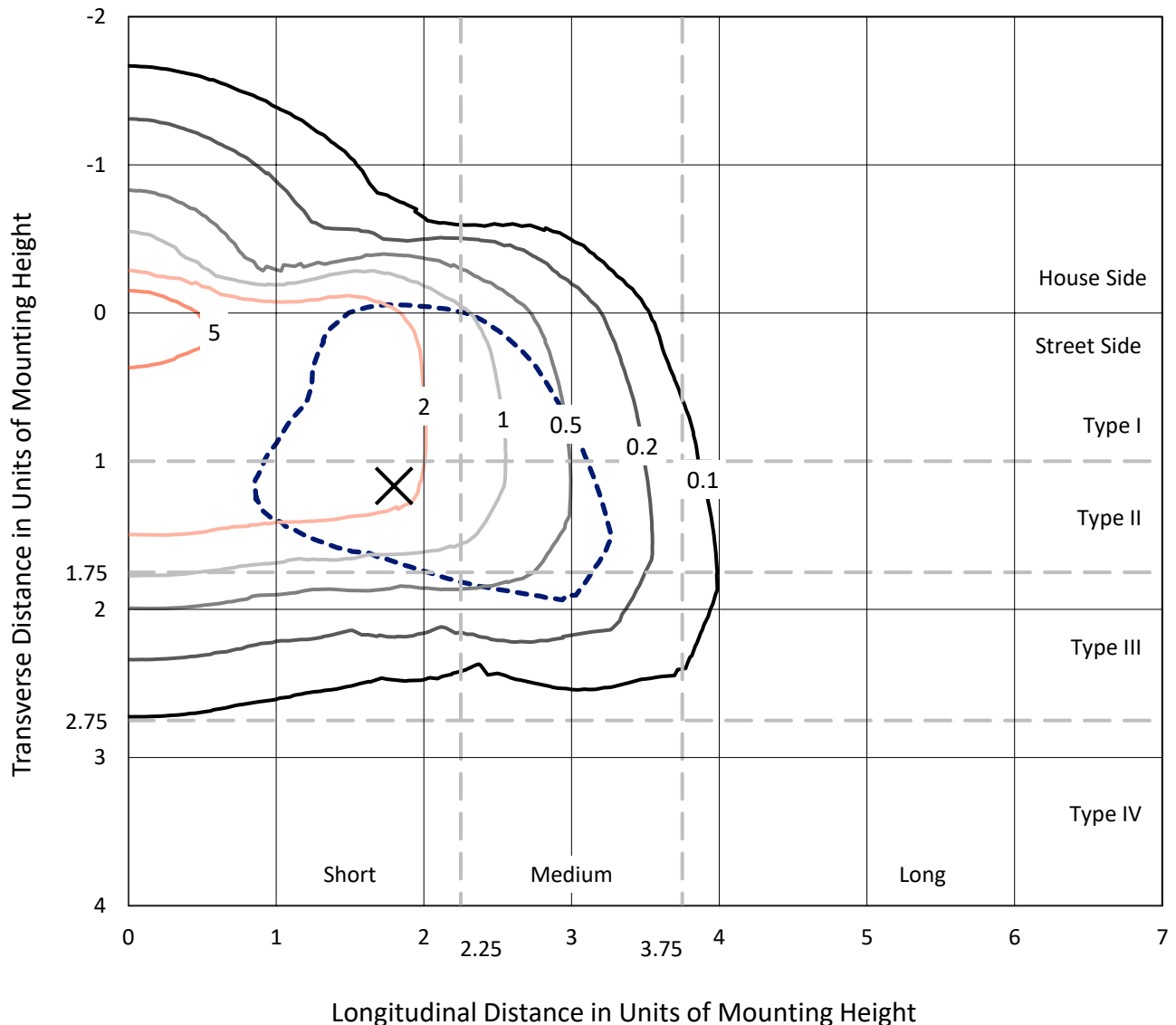
Lumens per Lamp: N/A  
Luminaire Lumens: 13341.3 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4  
Input Voltage (V): 120  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

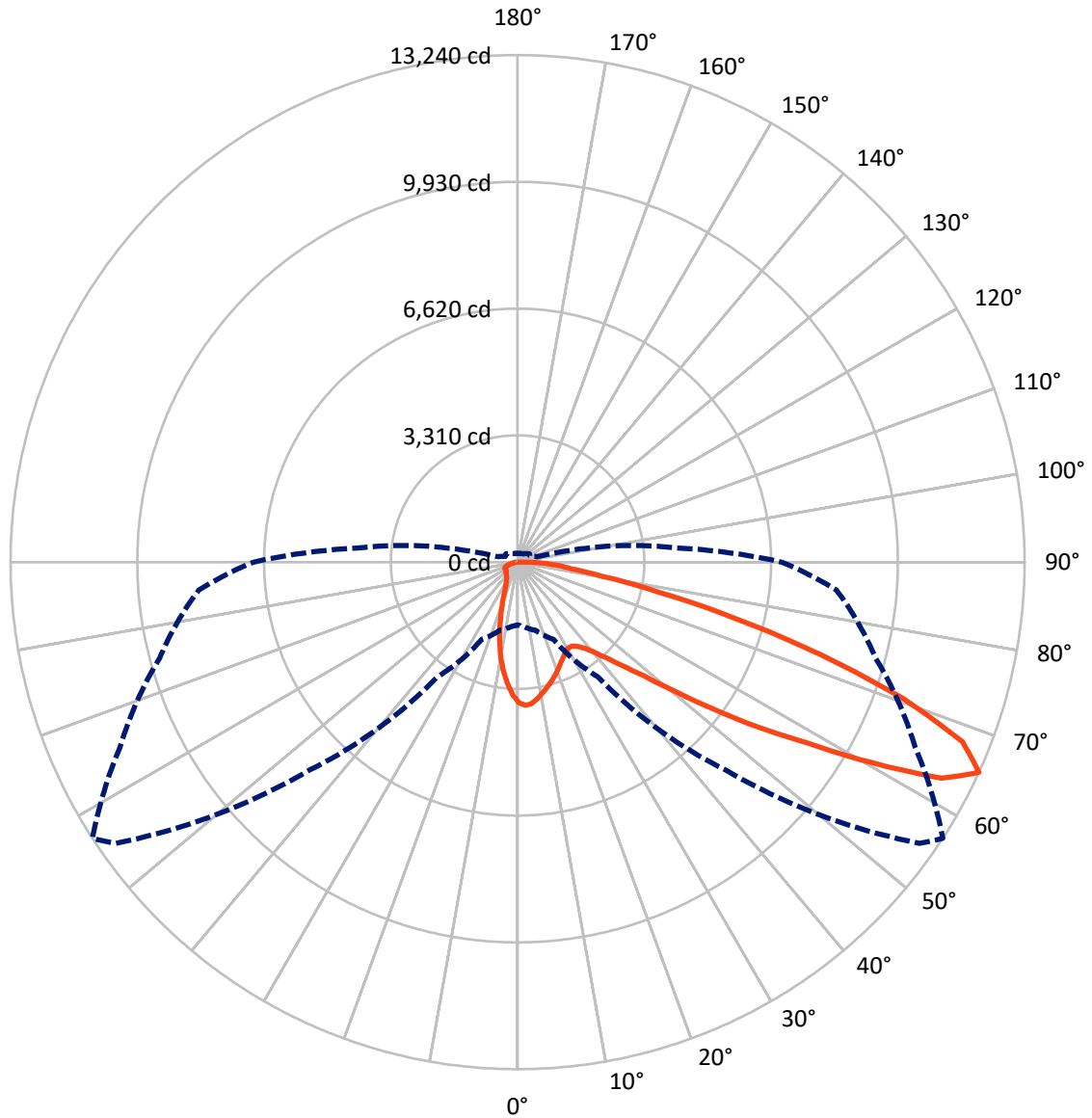
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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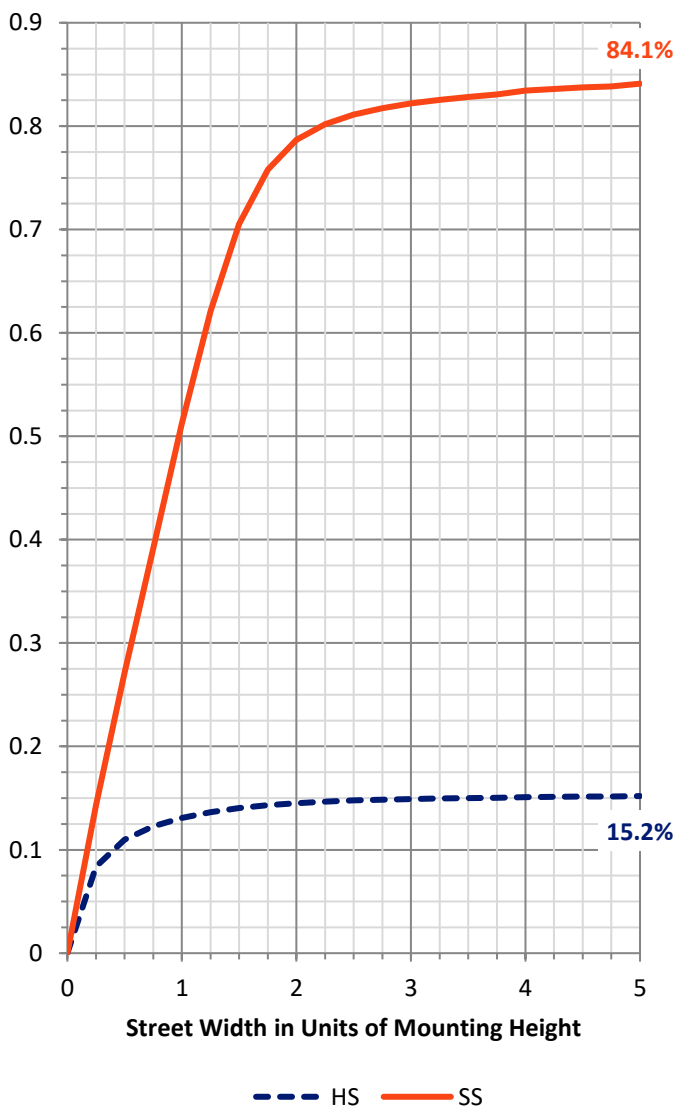
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2046.0	0.0	2046.0
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	11295.3	0.0	11295.3
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	13341.3	0.0	13341.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.2	2.3
10°-20°	661.2	5.0
20°-30°	854.9	6.4
30°-40°	1150.4	8.6
40°-50°	1834.3	13.7
50°-60°	3239.8	24.3
60°-70°	3564.3	26.7
70°-80°	1491.0	11.2
80°-90°	238.3	1.8
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°	13341.3	100.0
0°-180°	13341.3	100.0

**Coefficient of Utilization**

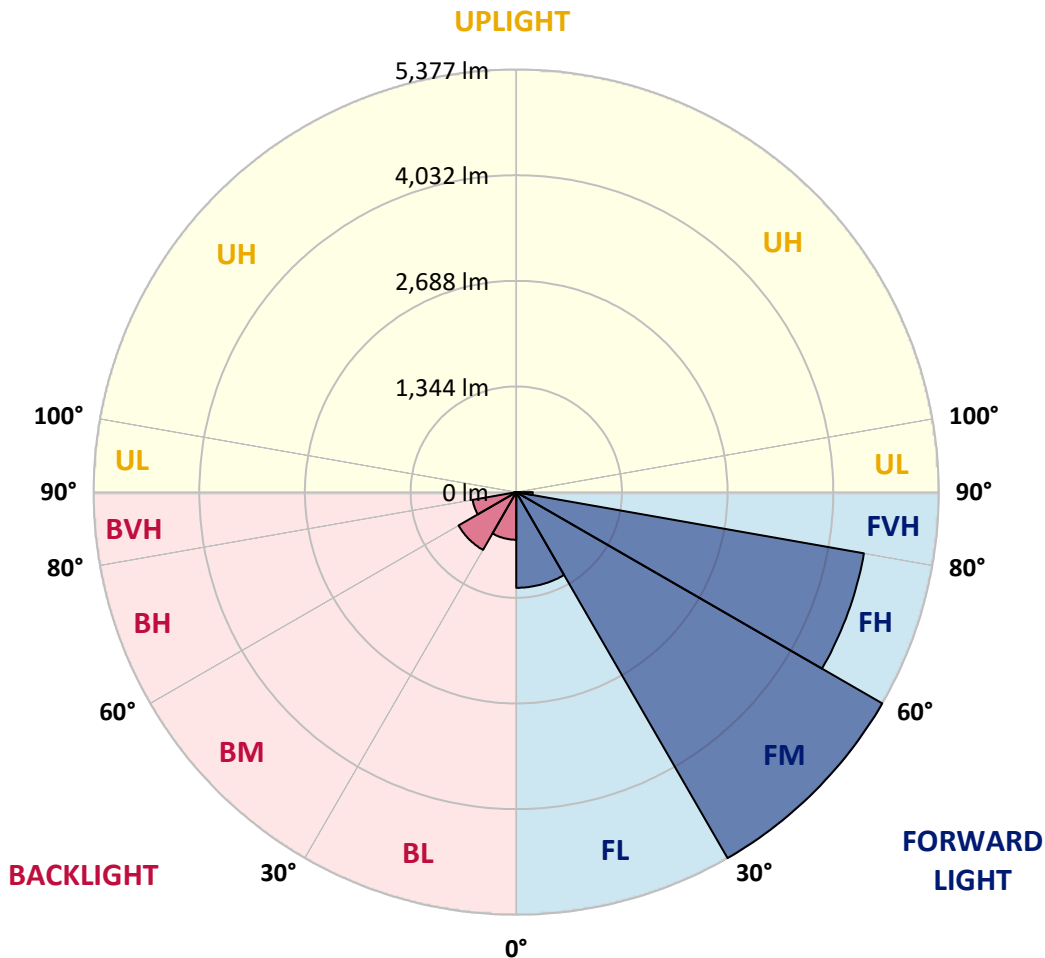


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.3	9.1			
FM (30°-60°)	5376.5	40.3			
FH (60°-80°)	4491.1	33.7			G2/5000
FVH (80°-90°)	210.3	1.6			G2/225
BL (0°-30°)	605.9	4.5	B2/1000		
BM (30°-60°)	848.0	6.4	B1/1000		
BH (60°-80°)	564.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	28.0	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7
2.5°	3767.7	3773.8	3773.8	3785.8	3745.2	3764.7	3761.7	3743.7	3749.7	3718.2	3686.7
5°	3661.2	3656.7	3680.7	3683.7	3715.2	3724.2	3731.7	3719.7	3722.7	3653.7	3623.6
7.5°	3388.0	3386.5	3427.0	3461.5	3527.6	3589.1	3629.6	3617.6	3634.2	3590.6	3520.1
10°	3063.7	3098.3	3140.3	3174.8	3296.4	3374.5	3479.5	3490.0	3553.1	3542.6	3415.0
12.5°	2820.6	2835.6	2867.1	2966.2	3077.2	3206.3	3356.4	3370.0	3431.5	3461.5	3350.4
15°	2620.9	2634.4	2675.0	2748.5	2873.1	3026.2	3216.8	3251.4	3374.5	3385.0	3266.4
17.5°	2475.3	2485.8	2512.8	2586.4	2688.5	2885.1	3065.2	3126.8	3288.9	3339.9	3179.3
20°	2418.3	2395.7	2410.8	2457.3	2559.4	2711.0	2943.6	2997.7	3204.8	3305.4	3096.8
22.5°	2392.7	2373.2	2382.2	2379.2	2460.3	2568.4	2813.1	2870.1	3125.3	3264.9	3023.2
25°	2412.3	2412.3	2403.3	2395.7	2404.8	2475.3	2671.9	2760.5	3018.7	3230.4	2948.2
27.5°	2517.3	2476.8	2481.3	2449.8	2440.8	2440.8	2608.9	2661.4	2984.2	3210.8	2886.6
30°	2584.9	2604.4	2605.9	2559.4	2512.8	2428.8	2550.4	2601.4	2955.7	3234.9	2850.6
32.5°	2757.5	2748.5	2723.0	2714.0	2644.9	2550.4	2578.9	2613.4	2939.1	3288.9	2861.1
35°	2930.1	2925.6	2927.1	2922.6	2850.6	2711.0	2655.4	2702.0	2969.2	3383.5	2897.1
37.5°	3108.8	3120.8	3171.8	3171.8	3095.3	2943.6	2870.1	2856.6	3078.7	3538.1	2982.7
40°	3287.4	3317.4	3382.0	3484.0	3376.0	3234.9	3116.3	3095.3	3210.8	3745.2	3188.3
42.5°	3458.5	3508.1	3635.7	3787.3	3751.2	3610.1	3452.5	3428.5	3482.5	4053.0	3475.0
45°	3677.7	3719.7	3920.9	4153.5	4203.1	4078.5	3893.8	3874.3	3871.3	4503.3	3869.8
47.5°	4010.9	4056.0	4257.1	4491.3	4644.4	4663.9	4456.8	4435.7	4363.7	5111.2	4447.7
50°	4428.2	4501.8	4671.4	4944.6	5166.8	5375.4	5316.9	5255.3	5114.2	5818.2	5180.3
52.5°	4733.0	4823.0	5052.7	5402.4	5794.2	6126.0	6336.1	6336.1	6011.9	6594.3	6061.4
55°	4814.0	4868.1	5157.8	5663.6	6334.6	7173.7	7613.6	7580.5	7080.7	7410.9	7086.7
57.5°	4491.3	4561.8	4913.1	5443.0	6618.3	8153.9	8882.0	8889.5	8248.5	8359.6	8098.4
60°	3602.6	3625.1	4039.4	4748.0	6345.1	8943.5	10614.2	10642.8	9577.0	9204.7	8613.3
62.5°	2490.3	2562.4	2874.6	3496.1	5256.8	8855.0	12285.0	12426.1	10641.3	9650.5	8694.3
65°	1639.2	1682.7	1849.3	2227.6	3659.7	7675.1	12804.3	13239.7	11454.9	9676.1	8355.1
67.5°	1188.9	1196.4	1245.9	1441.1	2199.1	5519.5	11917.2	12531.1	11759.6	9462.9	7559.5
70°	960.7	966.7	984.7	1109.3	1420.0	3454.0	9719.6	10681.8	10845.4	8452.7	6088.4
72.5°	780.6	788.1	810.6	927.7	1170.9	1921.4	7107.7	8280.0	8821.9	6253.6	4047.0
75°	613.9	620.0	674.0	789.6	1100.3	1319.5	4714.9	5863.3	5936.8	3655.2	1894.4
77.5°	420.3	430.8	496.9	669.5	1035.8	1154.3	2939.1	3755.7	3370.0	1430.5	651.5
80°	267.2	282.2	321.2	507.4	915.7	1101.8	1828.3	2242.6	1475.6	489.4	313.7
82.5°	157.6	172.6	211.7	328.7	719.0	1022.2	1287.9	1403.5	692.0	250.7	189.1
85°	87.1	97.6	127.6	198.1	421.8	908.2	1031.3	1007.2	396.3	133.6	118.6
87.5°	28.5	33.0	46.5	79.6	174.1	427.8	618.5	580.9	205.7	61.5	46.5
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°	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7
2.5°	3665.7	3661.2	3593.6	3542.6	3455.5	3383.5	3354.9	3315.9	3314.4	3285.9	3278.4
5°	3577.1	3530.6	3427.0	3327.9	3173.3	3069.7	2975.2	2909.1	2882.1	2823.6	2810.1
7.5°	3463.0	3401.5	3242.4	3056.2	2874.6	2712.5	2565.4	2418.3	2335.7	2307.2	2275.7
10°	3344.4	3236.4	3000.7	2792.0	2538.4	2289.2	2058.0	1850.9	1738.3	1658.7	1624.2
12.5°	3249.9	3105.8	2805.5	2493.3	2158.6	1825.3	1556.6	1339.0	1211.4	1151.3	1124.3
15°	3143.3	2952.7	2592.4	2197.6	1780.3	1402.0	1139.3	968.2	917.2	888.6	884.1
17.5°	3030.7	2810.1	2361.2	1906.4	1411.0	1055.3	885.6	816.6	794.1	782.1	776.1
20°	2925.6	2682.5	2124.0	1582.2	1104.8	846.6	767.1	731.0	729.5	735.5	734.0
22.5°	2777.0	2515.8	1889.9	1281.9	882.6	737.0	686.0	677.0	686.0	693.5	696.5
25°	2693.0	2379.2	1628.7	1017.7	729.5	654.5	638.0	635.0	648.5	657.5	656.0
27.5°	2605.9	2238.1	1385.5	815.1	639.5	595.9	592.9	595.9	609.4	623.0	621.5
30°	2538.4	2125.6	1157.3	681.5	570.4	553.9	550.9	553.9	561.4	562.9	562.9
32.5°	2482.8	1992.0	963.7	591.4	528.4	514.9	517.9	516.4	517.9	519.4	520.9
35°	2449.8	1912.4	804.6	535.9	493.9	483.4	481.9	477.3	478.8	480.4	478.8
37.5°	2520.3	1873.4	678.5	496.9	469.8	460.8	457.8	454.8	450.3	450.3	450.3
40°	2626.9	1852.4	601.9	471.3	451.8	441.3	432.3	429.3	429.3	430.8	432.3
42.5°	2838.6	1886.9	549.4	451.8	429.3	417.3	408.3	409.8	414.3	418.8	415.8
45°	3144.8	1992.0	525.4	436.8	415.8	399.3	393.3	391.8	396.3	403.8	409.8
47.5°	3545.6	2155.6	516.4	423.3	406.8	384.3	376.8	381.3	387.3	397.8	393.3
50°	4201.6	2523.3	523.9	411.3	393.3	376.8	367.8	363.3	367.8	375.3	378.3
52.5°	5058.7	3191.3	552.4	405.3	384.3	370.8	355.8	348.3	352.8	358.8	358.8
55°	6083.9	4104.0	632.0	397.8	369.3	361.8	345.3	330.2	333.2	333.2	331.7
57.5°	6987.6	4793.0	726.5	387.3	360.3	349.8	328.7	310.7	307.7	309.2	310.7
60°	7392.9	4976.1	771.6	384.3	360.3	334.7	306.2	288.2	283.7	280.7	280.7
62.5°	7322.3	4659.4	680.0	370.8	369.3	322.7	285.2	265.7	259.7	253.7	255.2
65°	6896.0	4207.6	535.9	352.8	370.8	315.2	264.2	244.7	234.2	226.7	225.2
67.5°	6117.0	3592.1	424.8	339.2	355.8	301.7	246.2	223.7	214.7	207.2	204.1
70°	4785.5	2816.1	369.3	321.2	319.7	268.7	225.2	205.7	192.1	183.1	183.1
72.5°	3102.8	1780.3	316.7	285.2	276.2	225.2	195.1	183.1	172.6	165.1	165.1
75°	1405.0	827.1	255.2	238.7	225.2	180.1	165.1	159.1	150.1	142.6	142.6
77.5°	504.4	352.8	190.6	187.6	168.1	139.6	133.6	129.1	123.1	115.6	115.6
80°	282.2	223.7	142.6	136.6	117.1	103.6	96.1	96.1	93.1	88.6	87.1
82.5°	178.6	145.6	105.1	91.6	76.6	69.1	66.0	64.5	63.0	57.0	55.5
85°	112.6	99.1	69.1	54.0	45.0	34.5	33.0	31.5	28.5	25.5	25.5
87.5°	51.0	57.0	27.0	16.5	12.0	7.5	4.5	1.5	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)