

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: P484125

Luminaire Tested: **IFLD-S-SA3C-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484125
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

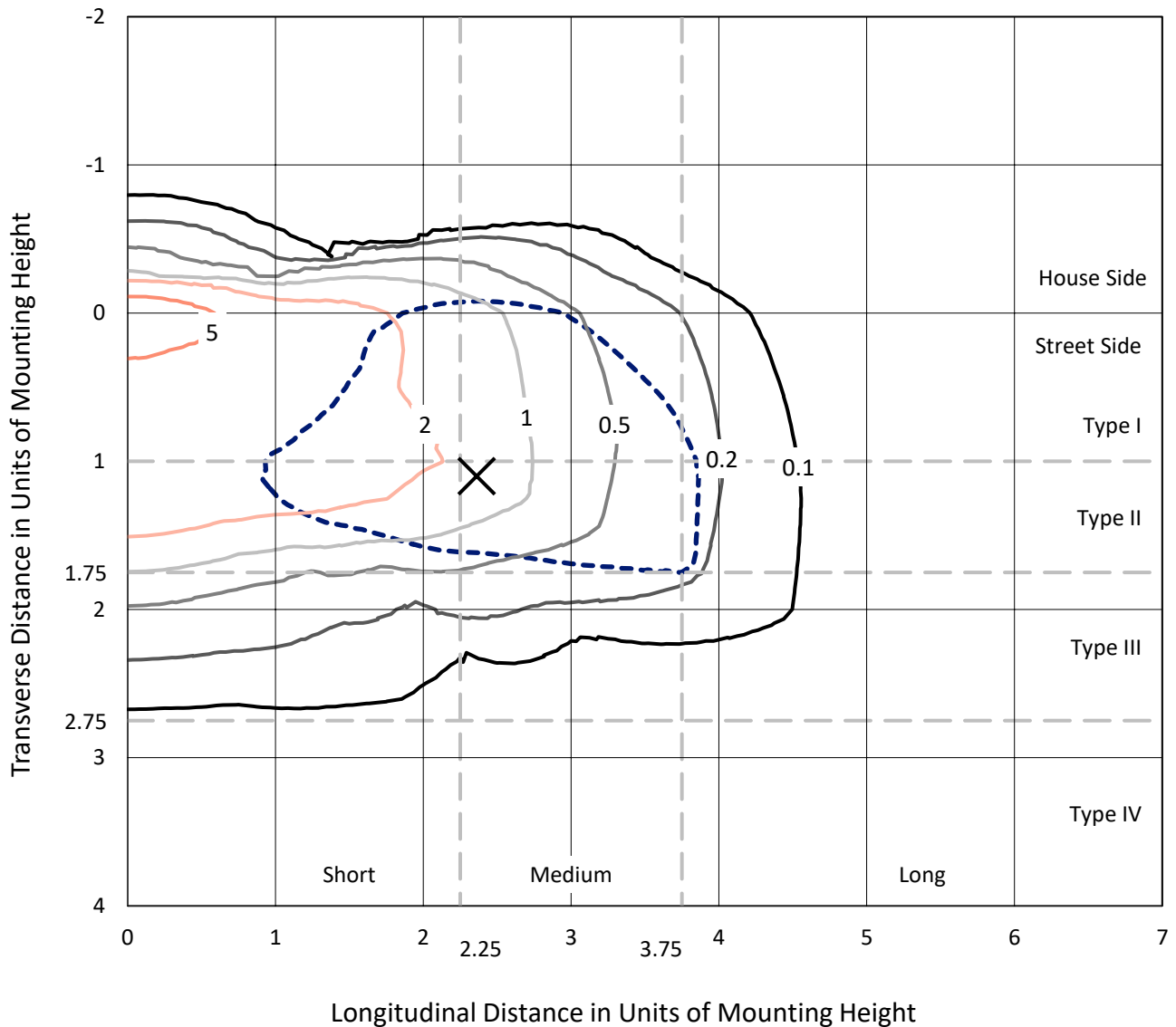
Lumens per Lamp: N/A
Luminaire Lumens: 12815.7 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 160.8
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

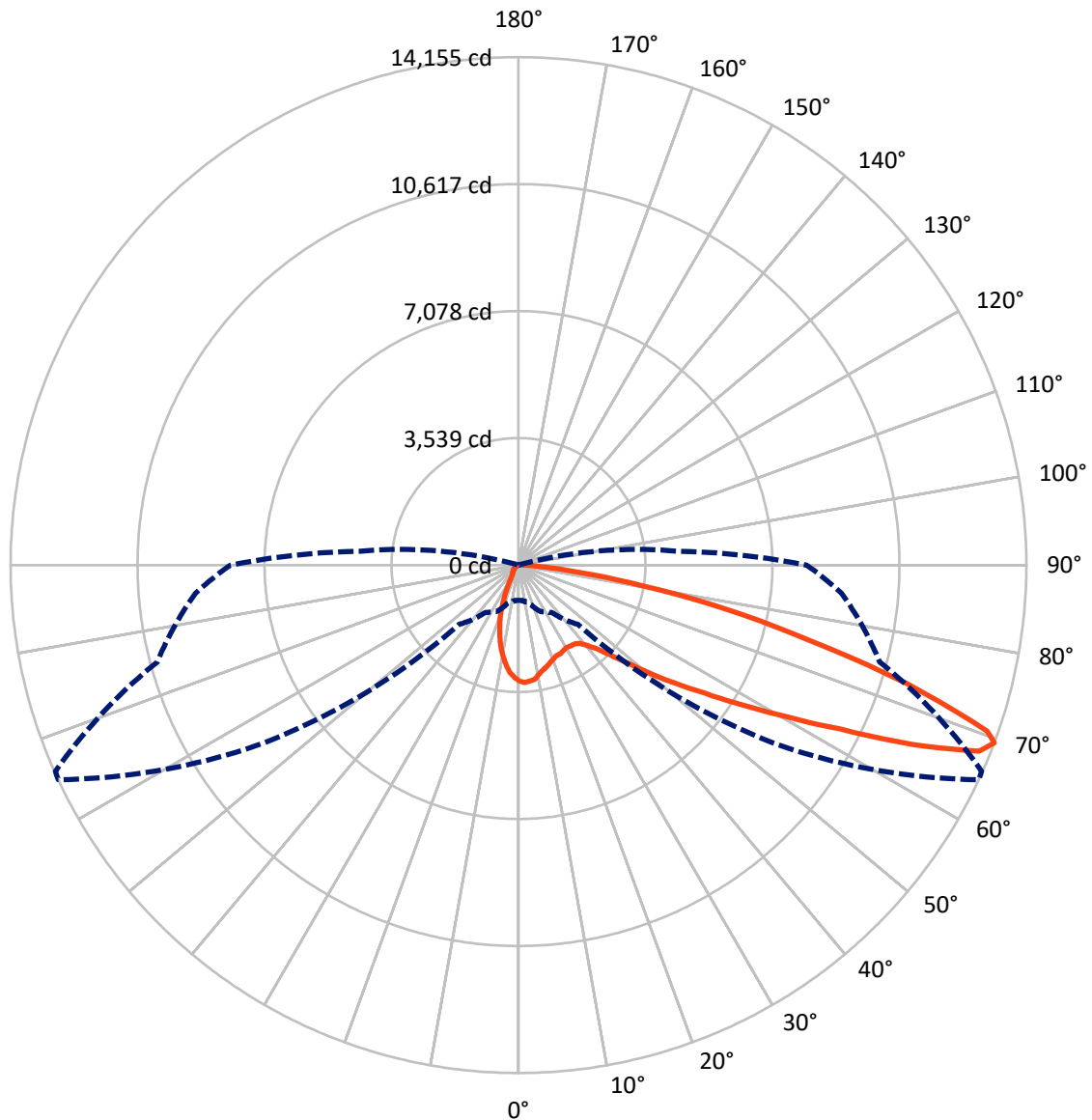
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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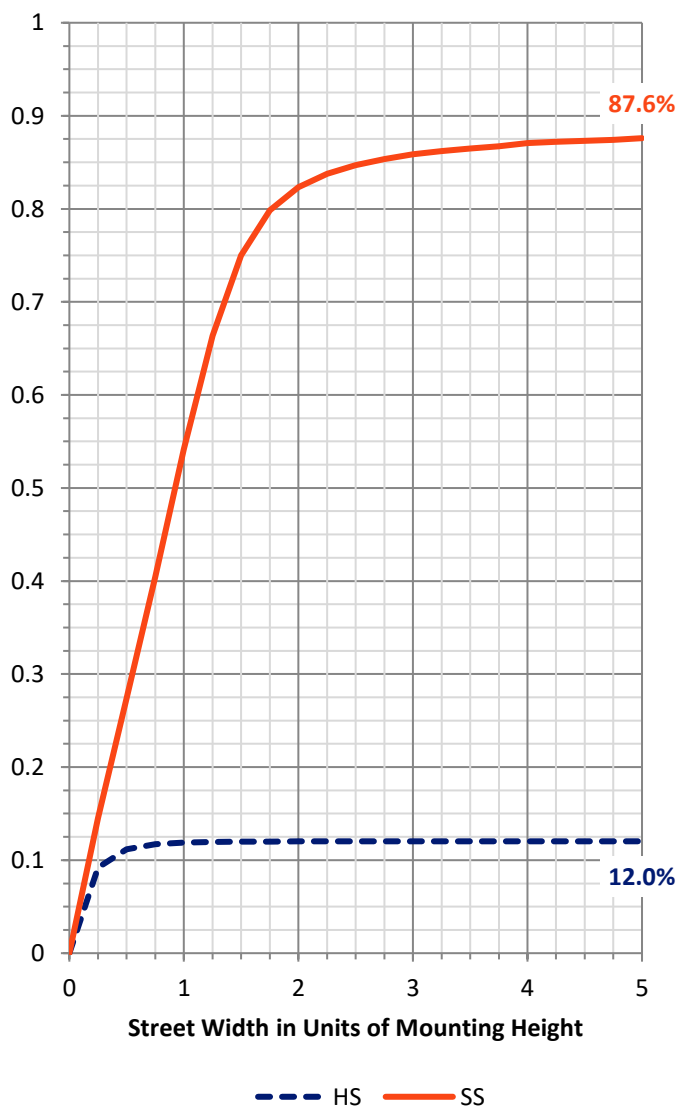
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.6	0.0	1554.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11261.0	0.0	11261.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	12815.7	0.0	12815.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	2.1
10°-20°	578.5	4.5
20°-30°	805.4	6.3
30°-40°	1141.4	8.9
40°-50°	1798.8	14.0
50°-60°	2918.8	22.8
60°-70°	3259.7	25.4
70°-80°	1835.6	14.3
80°-90°	213.0	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°	12815.7	100.0
0°-180°	12815.7	100.0

Coefficient of Utilization

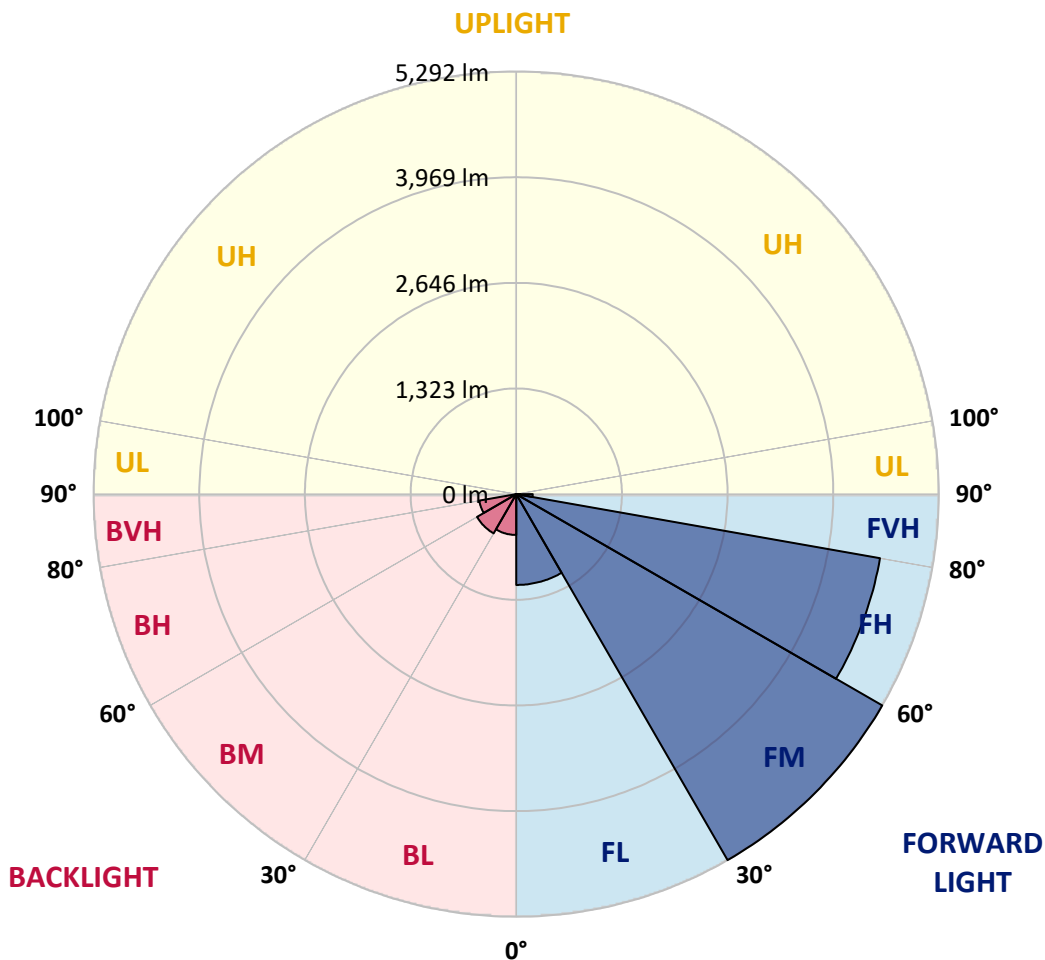


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.3	8.9			
FM (30°-60°)	5291.7	41.3			
FH (60°-80°)	4624.9	36.1			G2/5000
FVH (80°-90°)	207.1	1.6			G2/225
BL (0°-30°)	511.1	4.0	B2/1000		
BM (30°-60°)	567.3	4.4	B1/1000		
BH (60°-80°)	470.4	3.7	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1
2.5°	3111.8	3136.0	3143.0	3167.2	3179.3	3231.1	3260.5	3277.8	3269.2	3288.2	3289.9
5°	2890.5	2876.7	2913.0	2939.0	2994.3	3084.2	3175.8	3246.7	3279.5	3310.6	3305.5
7.5°	2653.7	2646.8	2683.1	2741.9	2792.0	2900.9	3047.9	3222.5	3215.6	3291.6	3314.1
10°	2491.2	2498.1	2510.2	2569.0	2643.3	2754.0	2937.2	3099.7	3136.0	3296.8	3341.8
12.5°	2342.5	2354.6	2377.1	2437.6	2524.0	2638.1	2816.2	3006.4	3061.7	3267.4	3357.3
15°	2294.1	2266.5	2311.4	2356.4	2446.2	2548.2	2698.7	2935.5	2959.7	3232.9	3383.3
17.5°	2254.4	2237.1	2257.8	2294.1	2389.2	2472.2	2613.9	2859.4	2904.4	3219.0	3379.8
20°	2266.5	2250.9	2259.5	2287.2	2330.4	2408.2	2539.6	2786.8	2835.2	3155.1	3374.6
22.5°	2301.0	2313.1	2297.6	2304.5	2318.3	2358.1	2499.8	2735.0	2776.4	3143.0	3404.0
25°	2456.6	2435.9	2415.1	2406.5	2325.2	2342.5	2487.7	2731.5	2760.9	3099.7	3379.8
27.5°	2619.1	2601.8	2593.2	2543.1	2432.4	2380.6	2489.5	2683.1	2722.9	3082.4	3350.4
30°	2816.2	2838.7	2804.1	2743.6	2589.7	2461.8	2508.5	2658.9	2714.2	3016.8	3331.4
32.5°	3023.7	3035.8	3053.1	3008.1	2809.3	2584.6	2565.5	2681.4	2684.8	3016.8	3288.2
35°	3258.8	3241.5	3286.4	3289.9	3115.3	2802.4	2674.4	2696.9	2733.2	3002.9	3272.6
37.5°	3461.1	3490.4	3542.3	3625.3	3445.5	3110.1	2843.9	2769.5	2785.1	3066.9	3284.7
40°	3682.3	3711.7	3829.3	3912.3	3810.3	3455.9	3101.5	2939.0	2951.1	3162.0	3347.0
42.5°	3926.1	3983.1	4123.2	4268.4	4240.7	3895.0	3433.4	3187.9	3182.7	3398.8	3474.9
45°	4256.3	4332.4	4484.5	4652.2	4676.4	4398.1	3876.0	3559.6	3576.9	3708.3	3739.4
47.5°	4716.2	4712.7	4861.4	5048.1	5188.1	4920.2	4405.0	4059.2	4057.5	4197.5	4131.8
50°	5160.5	5162.2	5201.9	5418.0	5781.1	5644.5	5060.2	4723.1	4704.1	4773.2	4667.8
52.5°	5366.2	5342.0	5312.6	5573.6	6237.5	6557.3	5890.0	5475.1	5459.5	5418.0	5390.4
55°	5150.1	5158.7	5157.0	5428.4	6477.8	7520.3	6955.0	6303.2	6277.3	6147.6	6185.6
57.5°	4456.8	4429.2	4489.7	4913.2	6202.9	8177.2	8478.0	7347.4	7280.0	6849.5	6763.1
60°	3317.6	3326.2	3376.3	3876.0	5520.0	8315.5	9935.4	8573.1	8282.7	7343.9	7224.6
62.5°	2316.6	2299.3	2318.3	2598.4	3946.8	7762.3	10920.8	10063.3	9783.3	7905.8	7836.6
65°	1657.9	1635.4	1711.5	1882.7	2370.2	5935.0	11060.8	12048.0	11797.3	8803.0	8637.1
67.5°	1192.9	1189.4	1277.6	1588.8	1683.8	3417.8	10023.6	13845.9	13693.8	9868.0	9124.6
69°	987.1	988.9	1073.6	1422.8	1607.8	2333.9	8625.0	14155.4	14127.7	10417.7	9033.0
70°	860.9	867.9	966.4	1324.3	1576.7	1919.0	7435.6	13851.1	13823.5	10524.9	8730.4
72.5°	530.7	535.9	665.6	1061.5	1498.9	1566.3	4446.5	11332.3	11427.3	10033.9	7522.0
75°	254.1	255.9	349.2	767.6	1445.3	1485.0	2382.3	8362.2	8562.7	8101.1	5877.9
77.5°	134.8	134.8	167.7	408.0	1170.4	1396.9	1414.2	5898.7	6064.6	5122.4	3341.8
80°	67.4	69.2	102.0	212.6	726.1	1369.2	1104.7	3518.1	3608.0	2090.1	1040.7
82.5°	25.9	27.7	48.4	127.9	376.9	1156.6	969.9	1730.5	1708.1	489.2	254.1
85°	3.5	3.5	17.3	76.1	160.8	510.0	800.4	722.6	698.4	107.2	122.7
87.5°	0.0	0.0	3.5	22.5	48.4	148.7	309.5	198.8	221.3	29.4	60.5
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°	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1
2.5°	3281.3	3245.0	3189.6	3136.0	3079.0	3009.8	2933.8	2906.1	2857.7	2854.2	2881.9
5°	3277.8	3219.0	3122.2	3008.1	2845.6	2722.9	2589.7	2492.9	2418.6	2370.2	2382.3
7.5°	3295.1	3224.2	3056.5	2811.0	2601.8	2358.1	2152.4	2010.6	1880.9	1817.0	1810.1
10°	3267.4	3172.3	2926.9	2582.8	2275.1	1934.5	1633.7	1443.5	1249.9	1179.0	1182.5
12.5°	3283.0	3149.9	2786.8	2347.7	1924.2	1481.6	1122.0	862.7	681.1	622.4	615.5
15°	3293.4	3101.5	2652.0	2065.9	1535.2	1009.6	650.0	489.2	432.2	421.8	420.1
17.5°	3253.6	3042.7	2461.8	1787.6	1137.5	613.7	432.2	399.4	389.0	382.1	378.6
20°	3251.9	3008.1	2297.6	1502.3	758.9	418.4	373.4	361.3	345.8	340.6	340.6
22.5°	3222.5	2935.5	2100.5	1189.4	484.1	359.6	335.4	316.4	299.1	292.2	290.4
25°	3213.8	2850.8	1915.5	893.8	368.2	321.6	297.4	269.7	248.9	238.6	233.4
27.5°	3189.6	2778.2	1728.8	629.3	321.6	287.0	255.9	226.5	202.3	186.7	185.0
30°	3103.2	2702.1	1521.3	435.7	292.2	254.1	219.6	185.0	160.8	150.4	146.9
32.5°	3066.9	2631.2	1294.9	335.4	266.2	224.7	185.0	153.9	134.8	124.5	122.7
35°	3023.7	2527.5	1075.3	292.2	242.0	195.4	155.6	129.7	114.1	105.5	105.5
37.5°	3028.9	2444.5	869.6	264.5	216.1	167.7	133.1	110.6	96.8	88.2	88.2
40°	3013.3	2378.8	676.0	240.3	191.9	143.5	112.4	93.4	81.3	72.6	70.9
42.5°	3084.2	2361.5	510.0	219.6	167.7	122.7	96.8	79.5	67.4	57.1	57.1
45°	3203.5	2389.2	397.6	200.5	143.5	105.5	83.0	65.7	53.6	46.7	44.9
47.5°	3521.6	2498.1	311.2	185.0	122.7	91.6	69.2	53.6	43.2	36.3	34.6
50°	3983.1	2741.9	264.5	162.5	103.7	77.8	57.1	41.5	34.6	27.7	25.9
52.5°	4640.1	3151.6	240.3	143.5	86.4	64.0	44.9	32.8	25.9	20.7	19.0
55°	5355.8	3663.3	217.8	121.0	72.6	51.9	36.3	25.9	19.0	13.8	12.1
57.5°	5914.2	4105.9	198.8	100.3	58.8	41.5	27.7	19.0	13.8	8.6	6.9
60°	6524.5	4417.1	174.6	79.5	48.4	31.1	20.7	13.8	10.4	5.2	5.2
62.5°	7153.8	4781.9	143.5	62.2	38.0	24.2	15.6	10.4	6.9	1.7	1.7
65°	8028.5	5067.1	110.6	48.4	29.4	17.3	12.1	8.6	3.5	0.0	0.0
67.5°	8275.8	4927.1	81.3	38.0	20.7	12.1	8.6	5.2	1.7	0.0	0.0
69°	8028.5	4437.8	70.9	32.8	17.3	10.4	6.9	3.5	1.7	0.0	0.0
70°	7577.3	4057.5	62.2	27.7	15.6	10.4	5.2	3.5	1.7	0.0	0.0
72.5°	6337.8	3111.8	48.4	20.7	12.1	8.6	5.2	3.5	0.0	0.0	0.0
75°	4648.7	1922.4	36.3	15.6	10.4	6.9	5.2	3.5	0.0	0.0	0.0
77.5°	2491.2	701.9	25.9	10.4	6.9	5.2	5.2	3.5	0.0	0.0	0.0
80°	682.9	207.5	19.0	6.9	5.2	3.5	3.5	1.7	0.0	0.0	0.0
82.5°	186.7	53.6	12.1	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0
85°	100.3	20.7	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	51.9	6.9	5.2	3.5	3.5	1.7	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)