

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: P479988

Luminaire Tested: **IFLD-S-SA2E-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479988
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

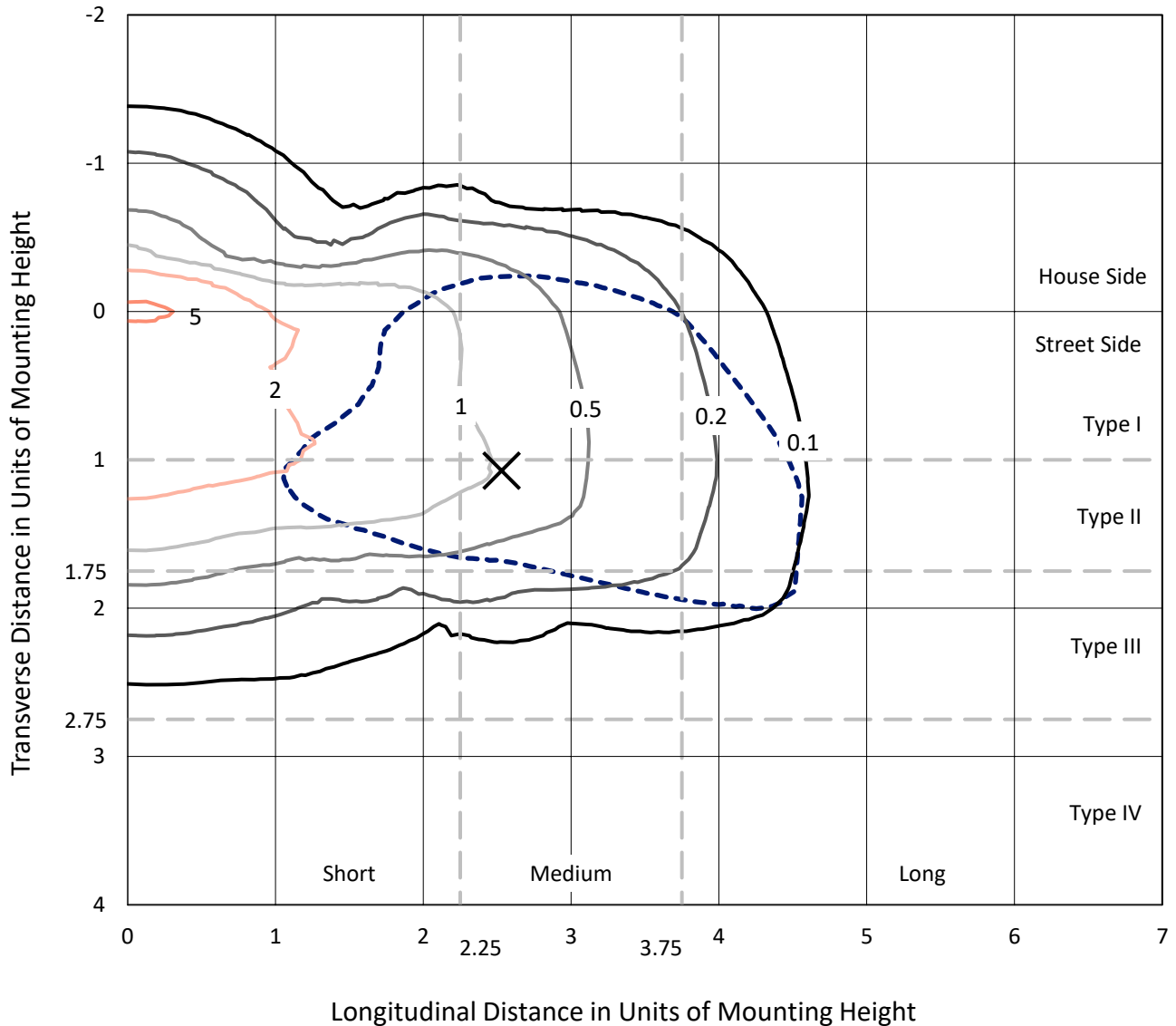
Lumens per Lamp: N/A
Luminaire Lumens: 15092 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

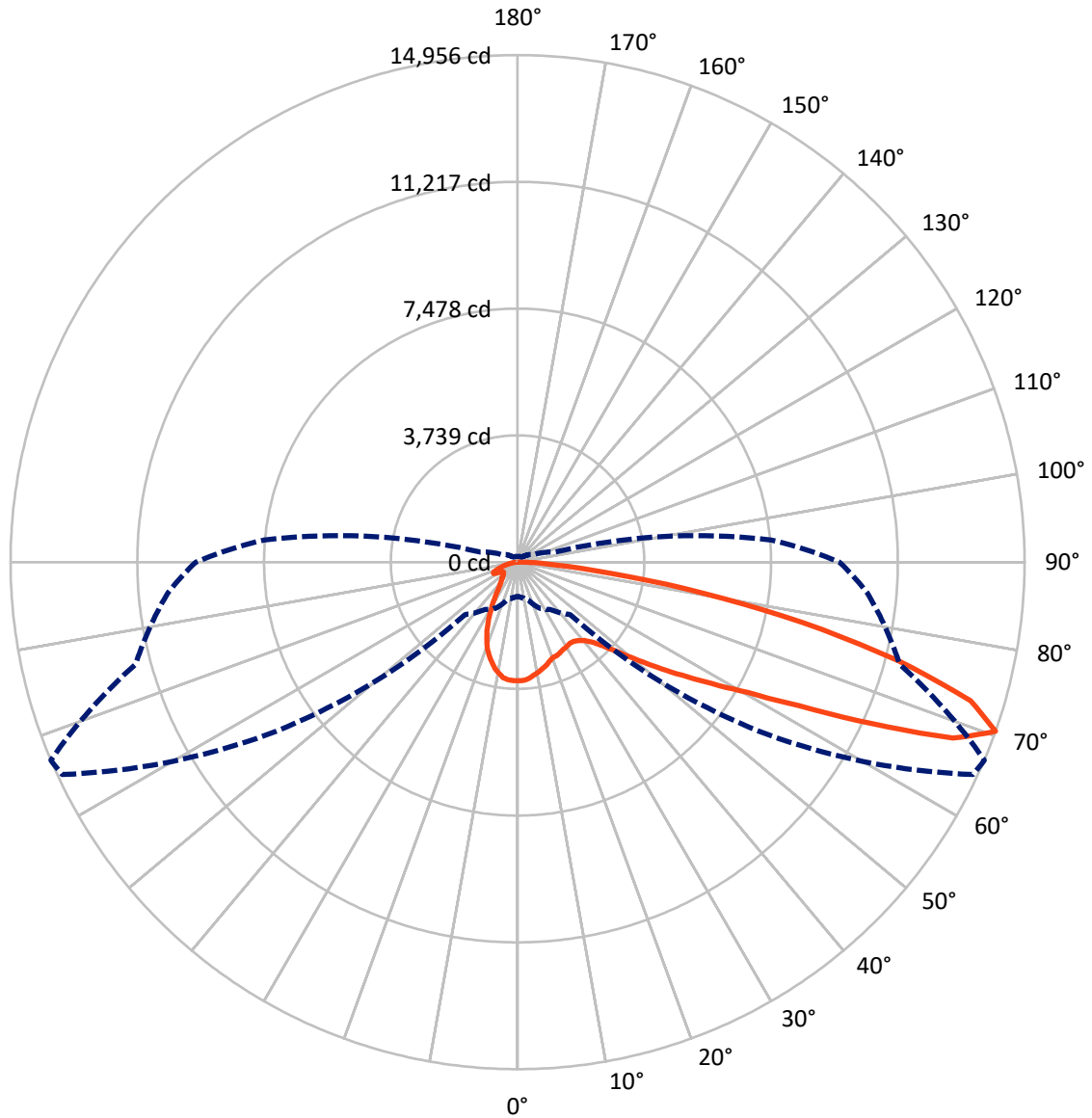
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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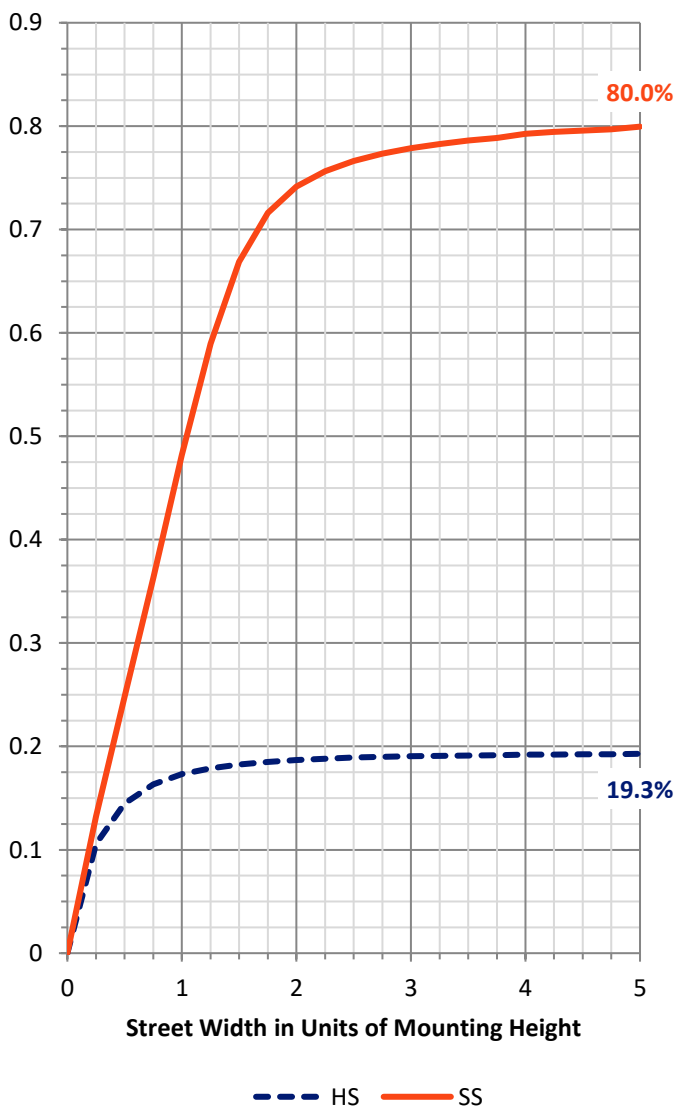
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2939.3	0.0	2939.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12152.7	0.0	12152.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	15092.0	0.0	15092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	2.0
10°-20°	730.1	4.8
20°-30°	985.9	6.5
30°-40°	1319.2	8.7
40°-50°	1939.9	12.9
50°-60°	3023.8	20.0
60°-70°	3724.8	24.7
70°-80°	2631.9	17.4
80°-90°	431.4	2.9
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°	15092.0	100.0
0°-180°	15092.0	100.0

Coefficient of Utilization



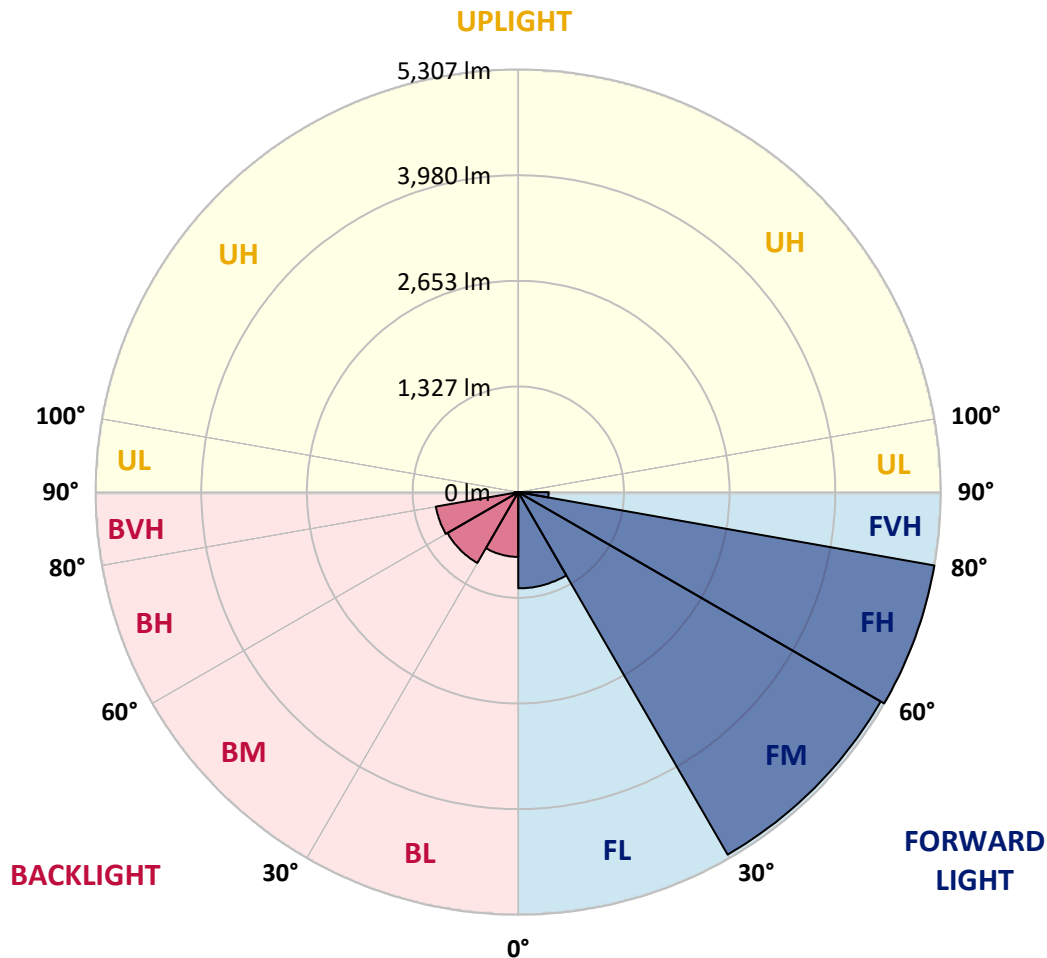
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1208.0	8.0			
FM	(30°-60°)	5256.2	34.8			
FH	(60°-80°)	5306.8	35.2			G3/7500
FVH	(80°-90°)	381.6	2.5			G3/500
BL	(0°-30°)	812.8	5.4	B2/1000		
BM	(30°-60°)	1026.8	6.8	B2/2500		
BH	(60°-80°)	1050.0	7.0	B3/2500		G3/2500
BVH	(80°-90°)	49.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7
2.5°	3253.1	3289.9	3303.3	3323.3	3375.1	3413.5	3436.9	3463.7	3495.4	3522.1	3538.9
5°	3025.9	3046.0	3077.7	3099.4	3164.6	3268.2	3338.4	3452.0	3448.6	3490.4	3553.9
7.5°	2805.4	2825.4	2840.4	2883.9	2977.5	3071.0	3199.7	3383.5	3370.1	3467.0	3565.6
10°	2668.3	2653.3	2658.3	2731.8	2805.4	2910.6	3072.7	3259.8	3308.3	3458.7	3599.0
12.5°	2539.7	2523.0	2563.1	2609.9	2700.1	2795.3	2989.1	3157.9	3231.4	3428.6	3614.0
15°	2459.5	2447.8	2497.9	2518.0	2624.9	2738.5	2875.5	3081.0	3161.2	3391.8	3590.7
17.5°	2414.4	2424.4	2442.8	2486.2	2554.7	2651.6	2802.0	3029.2	3064.3	3346.7	3585.6
20°	2422.7	2434.4	2436.1	2454.5	2501.3	2576.4	2730.2	2974.1	2997.5	3338.4	3599.0
22.5°	2489.6	2472.9	2479.5	2467.8	2481.2	2539.7	2675.0	2900.6	2990.8	3268.2	3570.6
25°	2589.8	2566.4	2563.1	2523.0	2497.9	2514.6	2665.0	2882.2	2940.7	3246.5	3568.9
27.5°	2766.9	2731.8	2731.8	2671.7	2569.8	2543.0	2636.6	2852.1	2903.9	3226.4	3530.5
30°	2937.4	2937.4	2939.0	2853.8	2740.2	2608.2	2648.3	2840.4	2873.9	3166.3	3478.7
32.5°	3144.5	3139.5	3131.2	3089.4	2914.0	2716.8	2705.1	2825.4	2842.1	3146.2	3463.7
35°	3346.7	3333.3	3398.5	3361.7	3183.0	2929.0	2763.6	2832.1	2868.8	3116.1	3416.9
37.5°	3498.8	3507.1	3642.4	3665.8	3512.1	3169.6	2929.0	2898.9	2934.0	3159.6	3416.9
40°	3695.9	3729.3	3856.3	3934.8	3841.3	3487.1	3191.3	3010.9	3035.9	3256.5	3490.4
42.5°	3954.9	3983.3	4145.4	4247.3	4220.6	3891.4	3450.3	3244.8	3224.7	3418.6	3600.7
45°	4297.4	4302.4	4466.2	4606.5	4661.7	4314.1	3861.3	3540.5	3523.8	3697.6	3802.8
47.5°	4705.1	4700.1	4802.0	4952.4	5101.1	4818.7	4334.2	3990.0	3929.8	4096.9	4138.7
50°	5099.4	5077.7	5101.1	5293.2	5579.0	5450.3	4909.0	4539.7	4479.5	4571.4	4643.3
52.5°	5316.6	5343.4	5279.9	5533.8	6086.9	6197.2	5670.9	5196.3	5144.5	5189.7	5315.0
55°	5164.6	5219.7	5178.0	5418.6	6309.1	7107.8	6656.7	5956.6	5889.7	5873.0	6078.5
57.5°	4518.0	4618.2	4626.6	5007.5	6232.3	7812.9	8043.5	6853.8	6753.6	6583.1	6795.3
60°	3468.7	3568.9	3645.8	4096.9	5573.9	8233.9	9650.8	8130.3	7799.5	7358.4	7485.4
62.5°	2431.1	2499.6	2576.4	2853.8	4297.4	7986.7	11041.0	9928.2	9318.3	8175.5	8334.2
65°	1771.1	1824.6	1903.1	2066.8	2639.9	6608.2	11685.9	12063.5	11485.4	9214.7	9194.7
67.5°	1333.3	1366.8	1470.3	1732.7	1829.6	4081.9	11017.6	14319.2	13851.3	10369.3	9886.4
70°	1009.2	1037.6	1134.5	1493.7	1709.3	2188.8	8691.7	14822.1	14955.8	11664.2	10350.9
72.5°	695.1	726.8	835.4	1244.8	1627.4	1736.0	5455.3	13465.4	13971.6	12197.2	9853.0
75°	426.1	447.8	511.3	944.0	1615.7	1697.6	3002.5	11034.3	11570.6	11269.9	8619.9
77.5°	300.8	299.1	310.8	553.1	1400.2	1707.6	1851.3	8085.2	8606.5	8305.8	5849.6
80°	218.9	220.6	232.2	330.8	950.7	1736.0	1458.6	5415.2	5570.6	4330.8	2307.4
82.5°	132.0	138.7	167.1	223.9	571.4	1567.3	1348.4	3009.2	2815.4	1390.1	634.9
85°	70.2	70.2	98.6	142.0	304.1	1169.6	1298.2	1431.9	1199.7	431.1	235.6
87.5°	16.7	16.7	28.4	56.8	122.0	559.7	885.5	569.8	456.1	145.4	96.9
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°	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7	3493.7
2.5°	3532.2	3512.1	3537.2	3487.1	3447.0	3448.6	3386.8	3383.5	3375.1	3331.7	3346.7
5°	3572.3	3555.6	3527.2	3472.0	3383.5	3294.9	3241.4	3172.9	3144.5	3129.5	3136.2
7.5°	3610.7	3580.6	3498.8	3421.9	3284.9	3117.8	3020.9	2929.0	2812.0	2798.7	2775.3
10°	3620.7	3557.2	3452.0	3288.2	3106.1	2920.6	2700.1	2529.7	2439.4	2369.3	2342.5
12.5°	3605.7	3579.0	3376.8	3166.3	2890.6	2599.8	2342.5	2101.9	1934.8	1848.0	1824.6
15°	3604.0	3557.2	3293.2	2980.8	2628.2	2249.0	1883.0	1594.0	1418.5	1346.7	1346.7
17.5°	3605.7	3493.7	3194.7	2793.7	2319.1	1806.2	1403.5	1166.3	1069.3	1059.3	1067.7
20°	3572.3	3447.0	3091.1	2573.1	1931.5	1356.7	1019.2	922.3	922.3	935.7	940.7
22.5°	3542.2	3376.8	2927.3	2300.8	1537.2	982.5	828.7	800.3	832.1	855.5	865.5
25°	3500.4	3318.3	2760.2	2018.4	1169.6	792.0	720.1	726.8	756.9	798.7	795.3
27.5°	3440.3	3216.4	2561.4	1690.9	870.5	683.4	665.0	668.3	700.1	718.5	715.1
30°	3371.8	3112.8	2377.6	1365.1	690.1	626.6	624.9	633.3	638.3	648.3	646.6
32.5°	3284.9	2975.8	2182.1	1061.0	621.6	594.8	588.1	583.1	588.1	586.5	581.5
35°	3223.1	2902.3	1983.3	808.7	583.1	566.4	561.4	553.1	546.4	536.3	534.7
37.5°	3206.4	2828.7	1774.4	660.0	553.1	544.7	528.0	513.0	504.6	499.6	496.2
40°	3196.3	2780.3	1570.6	579.8	528.0	519.6	499.6	479.5	471.2	466.2	467.8
42.5°	3231.4	2753.6	1363.4	539.7	506.3	491.2	469.5	446.1	444.4	441.1	446.1
45°	3355.1	2787.0	1171.3	511.3	484.5	459.5	431.1	419.4	417.7	414.4	417.7
47.5°	3635.8	2870.5	1007.5	492.9	461.2	439.4	409.4	392.6	391.0	389.3	389.3
50°	4023.4	3127.8	870.5	471.2	446.1	416.0	387.6	369.3	365.9	359.2	359.2
52.5°	4631.6	3560.6	788.6	459.5	419.4	394.3	364.2	344.2	335.8	329.2	329.2
55°	5316.6	4096.9	773.6	439.4	391.0	367.6	340.9	320.8	312.4	304.1	300.8
57.5°	6096.9	4807.0	880.5	426.1	370.9	340.9	310.8	292.4	285.7	277.4	274.0
60°	6823.7	5515.5	1213.0	406.0	352.5	315.8	285.7	267.3	259.0	250.6	250.6
62.5°	7664.2	6392.7	1776.1	406.0	335.8	289.1	259.0	245.6	240.6	232.2	230.6
65°	8658.3	7299.9	2187.1	431.1	330.8	265.7	233.9	220.6	215.5	210.5	208.9
67.5°	9415.2	7821.2	1881.4	497.9	352.5	245.6	208.9	200.5	197.2	192.1	188.8
70°	9495.4	7503.8	1134.5	538.0	374.3	225.6	187.1	178.8	178.8	173.8	170.4
72.5°	8775.3	6658.3	763.6	479.5	339.2	202.2	165.4	158.7	155.4	152.0	150.4
75°	7343.4	5647.5	603.2	382.6	260.7	167.1	143.7	137.0	132.0	130.3	127.0
77.5°	4932.3	3670.9	446.1	299.1	192.1	135.3	120.3	113.6	108.6	106.9	101.9
80°	1894.7	1398.5	287.4	217.2	135.3	106.9	95.2	88.6	85.2	80.2	76.9
82.5°	558.1	452.8	160.4	133.7	86.9	73.5	68.5	63.5	58.5	53.5	51.8
85°	230.6	207.2	98.6	70.2	53.5	43.4	40.1	35.1	30.1	26.7	23.4
87.5°	106.9	88.6	45.1	26.7	18.4	10.0	5.0	1.7	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)