

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: P483890

Luminaire Tested: **IFLD-S-SA3B-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483890
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

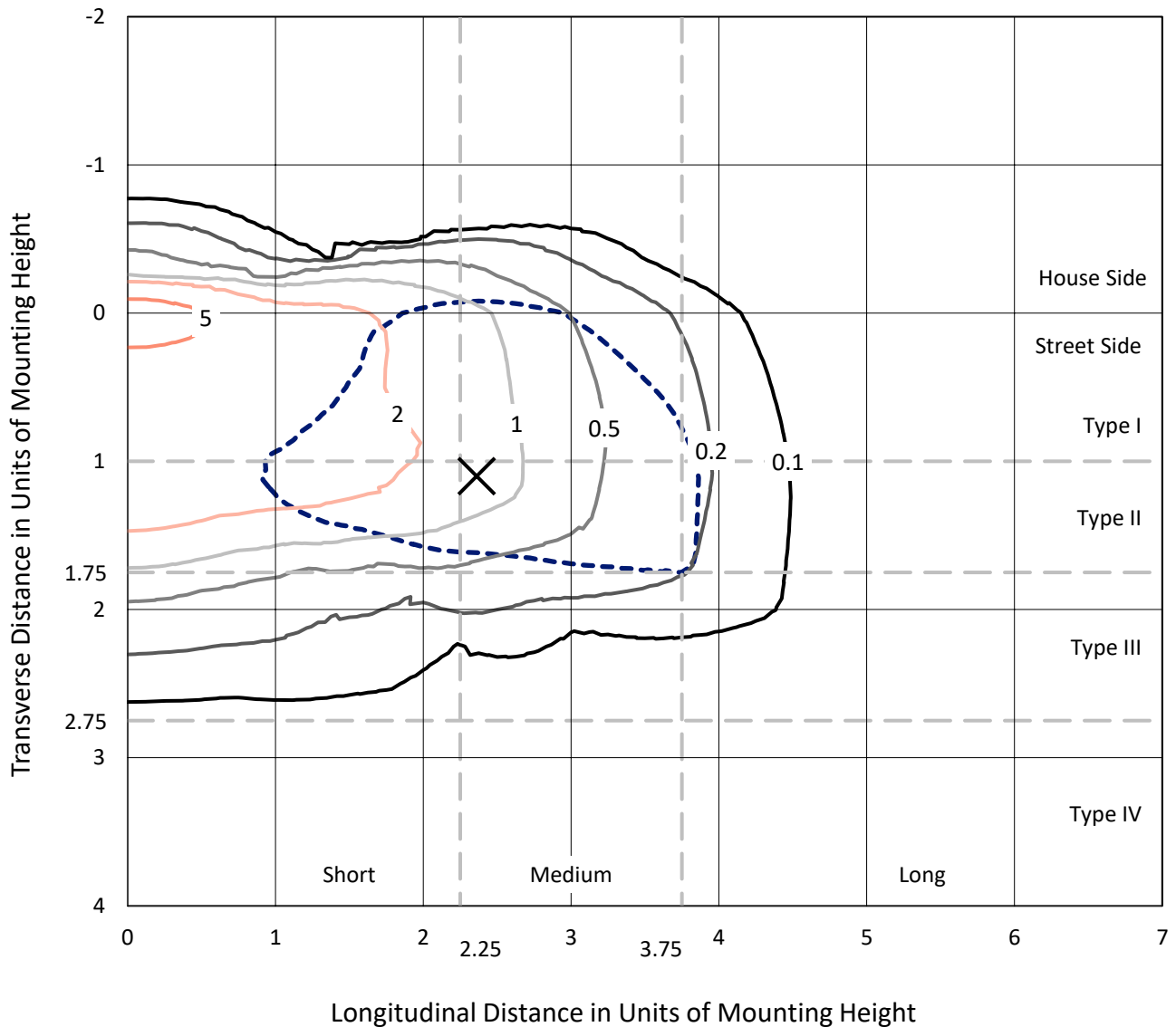
Lumens per Lamp: N/A
Luminaire Lumens: 11712.3 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P483890
 CATALOG NUMBER: IFLD-S-SA3B-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

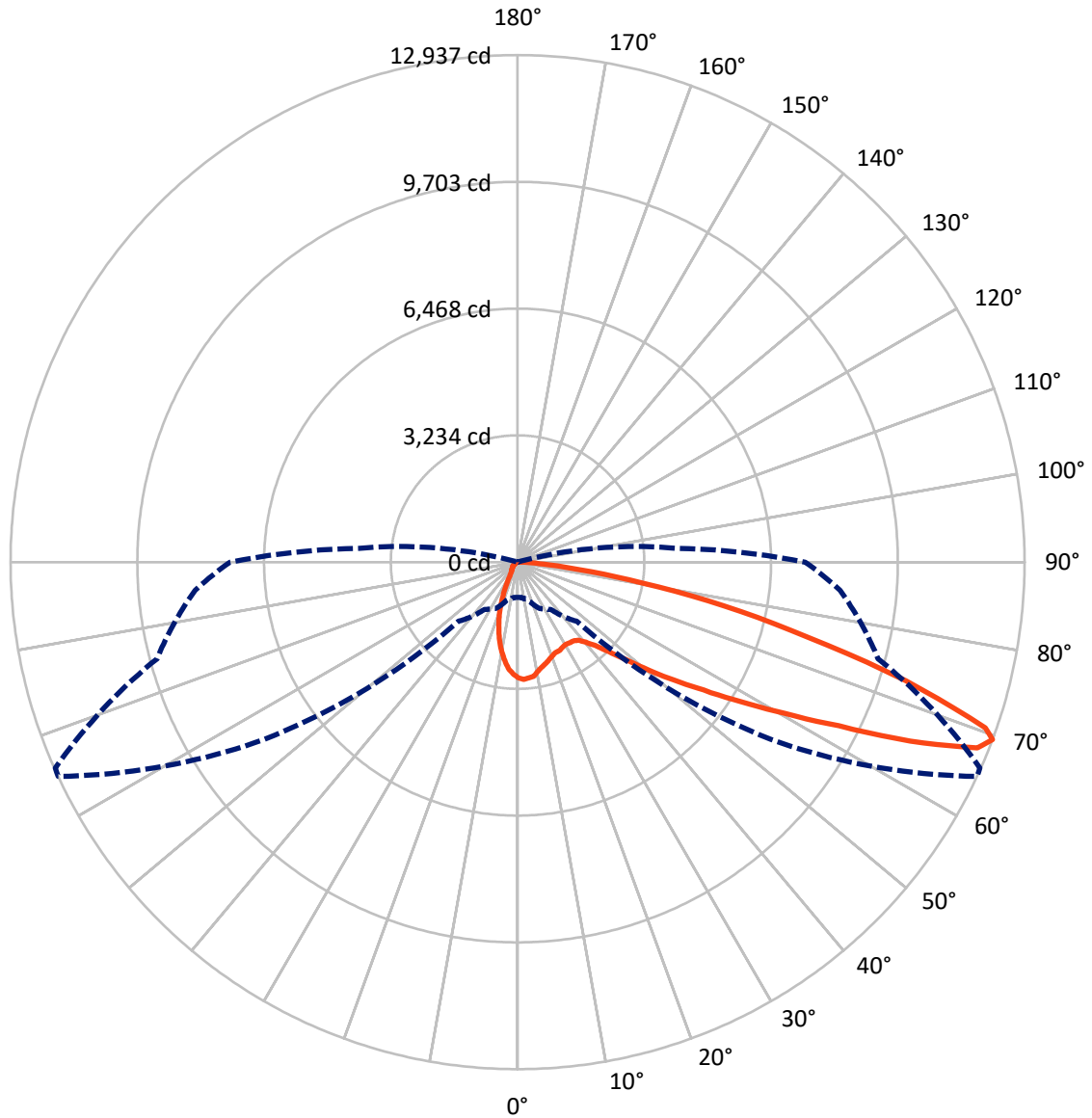
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P483890
CATALOG NUMBER: IFLD-S-SA3B-727-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483890
 CATALOG NUMBER: IFLD-S-SA3B-727-U-SL2-HSS

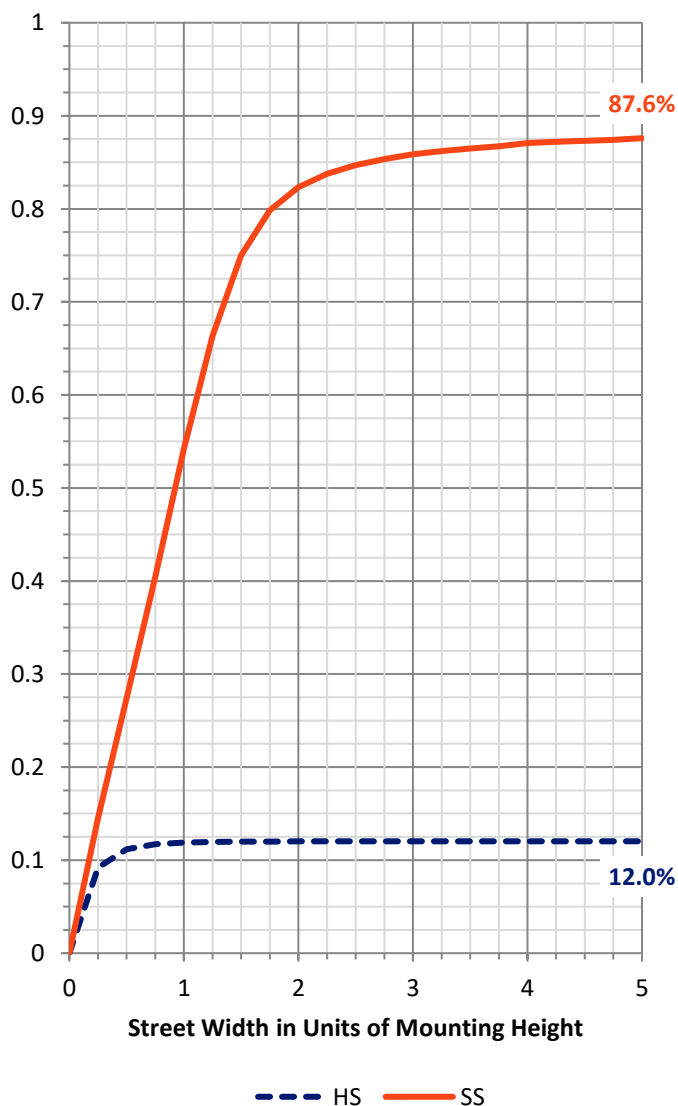
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.8	0.0	1420.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	10291.6	0.0	10291.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	11712.3	0.0	11712.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	2.1
10°-20°	528.7	4.5
20°-30°	736.1	6.3
30°-40°	1043.1	8.9
40°-50°	1643.9	14.0
50°-60°	2667.5	22.8
60°-70°	2979.1	25.4
70°-80°	1677.6	14.3
80°-90°	194.7	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°	11712.3	100.0
0°-180°	11712.3	100.0

Coefficient of Utilization



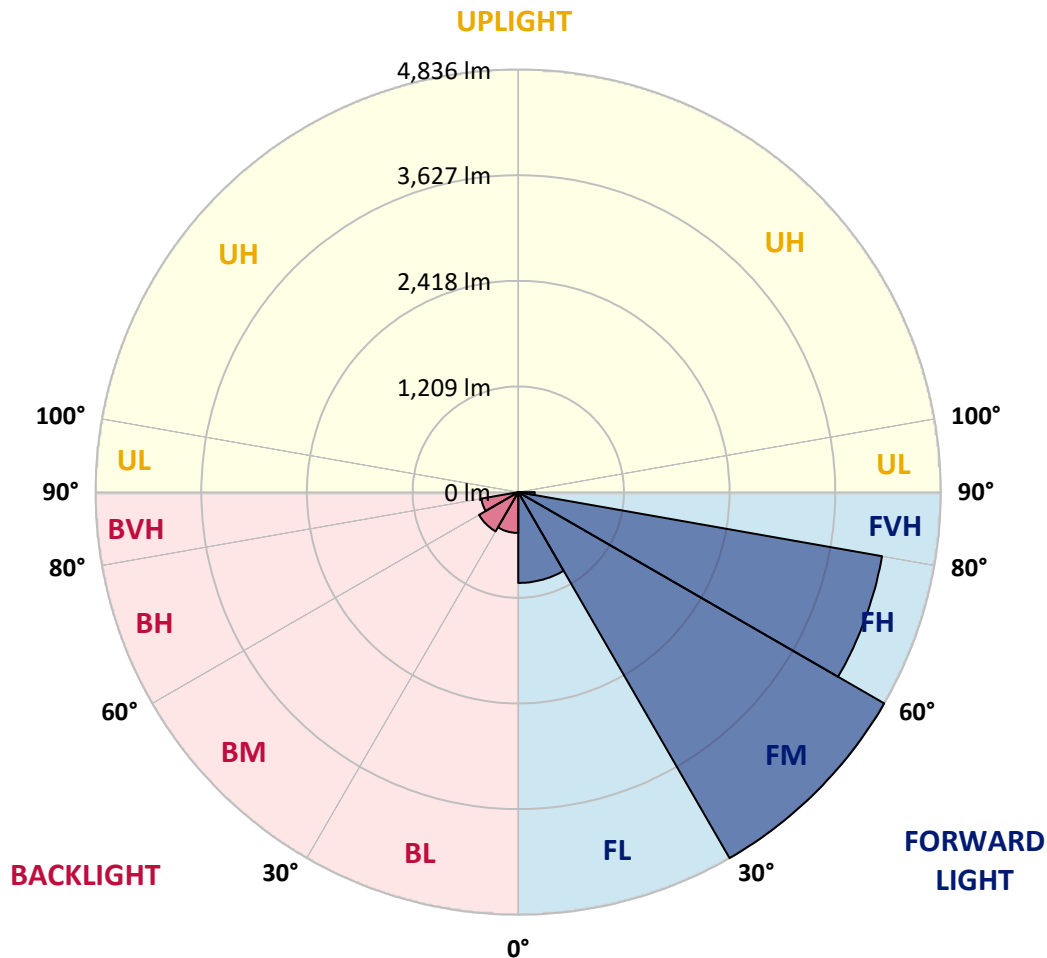
REPORT NUMBER: P483890
 CATALOG NUMBER: IFLD-S-SA3B-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.4	8.9			
FM (30°-60°)	4836.1	41.3			
FH (60°-80°)	4226.8	36.1			G2/5000
FVH (80°-90°)	189.3	1.6			G2/225
BL (0°-30°)	467.1	4.0	B1/500		
BM (30°-60°)	518.4	4.4	B1/1000		
BH (60°-80°)	429.9	3.7	B1/500		G1/500
BVH (80°-90°)	5.4	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 II Medium





REPORT NUMBER: P483890

CATALOG NUMBER: IFLD-S-SA3B-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0
2.5°	2843.9	2866.1	2872.4	2894.5	2905.6	2953.0	2979.8	2995.6	2987.7	3005.1	3006.7
5°	2641.7	2629.1	2662.2	2685.9	2736.5	2818.7	2902.4	2967.2	2997.2	3025.6	3020.9
7.5°	2425.2	2418.9	2452.1	2505.8	2551.6	2651.2	2785.5	2945.1	2938.7	3008.3	3028.8
10°	2276.7	2283.0	2294.1	2347.8	2415.8	2516.9	2684.4	2832.9	2866.1	3013.0	3054.1
12.5°	2140.9	2151.9	2172.5	2227.7	2306.7	2411.0	2573.8	2747.6	2798.1	2986.1	3068.3
15°	2096.6	2071.3	2112.4	2153.5	2235.6	2328.9	2466.3	2682.8	2704.9	2954.5	3092.0
17.5°	2060.3	2044.5	2063.4	2096.6	2183.5	2259.3	2388.9	2613.3	2654.3	2941.9	3088.8
20°	2071.3	2057.1	2065.0	2090.3	2129.8	2200.9	2321.0	2546.9	2591.1	2883.4	3084.1
22.5°	2102.9	2114.0	2099.8	2106.1	2118.7	2155.1	2284.6	2499.5	2537.4	2872.4	3110.9
25°	2245.1	2226.2	2207.2	2199.3	2125.1	2140.9	2273.6	2496.3	2523.2	2832.9	3088.8
27.5°	2393.6	2377.8	2369.9	2324.1	2223.0	2175.6	2275.1	2452.1	2488.4	2817.1	3062.0
30°	2573.8	2594.3	2562.7	2507.4	2366.8	2249.9	2292.5	2430.0	2480.5	2757.0	3044.6
32.5°	2763.4	2774.4	2790.2	2749.1	2567.4	2362.0	2344.7	2450.5	2453.7	2757.0	3005.1
35°	2978.2	2962.4	3003.5	3006.7	2847.1	2561.1	2444.2	2464.7	2497.9	2744.4	2990.9
37.5°	3163.1	3189.9	3237.3	3313.2	3148.9	2842.4	2599.0	2531.1	2545.3	2802.9	3001.9
40°	3365.3	3392.2	3499.6	3575.5	3482.2	3158.3	2834.5	2685.9	2697.0	2889.8	3058.8
42.5°	3588.1	3640.2	3768.2	3900.9	3875.7	3559.7	3137.8	2913.5	2908.7	3106.2	3175.7
45°	3889.9	3959.4	4098.4	4251.7	4273.8	4019.4	3542.3	3253.1	3268.9	3389.0	3417.5
47.5°	4310.1	4307.0	4442.9	4613.5	4741.5	4496.6	4025.7	3709.8	3708.2	3836.2	3776.1
50°	4716.2	4717.8	4754.1	4951.6	5283.4	5158.6	4624.6	4316.5	4299.1	4362.3	4265.9
52.5°	4904.2	4882.1	4855.2	5093.8	5700.5	5992.8	5382.9	5003.7	4989.5	4951.6	4926.3
55°	4706.7	4714.6	4713.0	4961.1	5920.1	6872.8	6356.2	5760.5	5736.8	5618.4	5653.1
57.5°	4073.1	4047.9	4103.2	4490.3	5668.9	7473.2	7748.1	6714.8	6653.2	6259.8	6180.8
60°	3032.0	3039.9	3085.7	3542.3	5044.8	7599.6	9080.1	7835.0	7569.6	6711.7	6602.7
62.5°	2117.2	2101.4	2118.7	2374.7	3607.1	7094.0	9980.6	9197.0	8941.0	7225.2	7162.0
65°	1515.2	1494.6	1564.2	1720.6	2166.1	5424.0	10108.6	11010.8	10781.7	8045.2	7893.5
67.5°	1090.2	1087.0	1167.6	1452.0	1538.9	3123.6	9160.6	12653.9	12514.9	9018.4	8339.0
69°	902.2	903.7	981.2	1300.3	1469.4	2133.0	7882.4	12936.7	12911.5	9520.9	8255.3
70°	786.8	793.1	883.2	1210.3	1440.9	1753.8	6795.4	12658.7	12633.4	9618.8	7978.8
72.5°	485.0	489.8	608.3	970.1	1369.8	1431.4	4063.7	10356.7	10443.6	9170.1	6874.4
75°	232.3	233.8	319.2	701.5	1320.8	1357.2	2177.2	7642.3	7825.6	7403.7	5371.9
77.5°	123.2	123.2	153.3	372.9	1069.6	1276.6	1292.4	5390.8	5542.5	4681.4	3054.1
80°	61.6	63.2	93.2	194.3	663.6	1251.3	1009.6	3215.2	3297.4	1910.2	951.1
82.5°	23.7	25.3	44.2	116.9	344.4	1057.0	886.4	1581.5	1561.0	447.1	232.3
85°	3.2	3.2	15.8	69.5	146.9	466.1	731.5	660.4	638.3	98.0	112.2
87.5°	0.0	0.0	3.2	20.5	44.2	135.9	282.8	181.7	202.2	26.9	55.3
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: P483890

CATALOG NUMBER: IFLD-S-SA3B-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0	2953.0
2.5°	2998.8	2965.6	2915.0	2866.1	2813.9	2750.7	2681.2	2655.9	2611.7	2608.5	2633.8
5°	2995.6	2941.9	2853.4	2749.1	2600.6	2488.4	2366.8	2278.3	2210.4	2166.1	2177.2
7.5°	3011.4	2946.6	2793.4	2569.0	2377.8	2155.1	1967.1	1837.5	1719.0	1660.5	1654.2
10°	2986.1	2899.2	2674.9	2360.5	2079.2	1768.0	1493.1	1319.3	1142.3	1077.5	1080.7
12.5°	3000.4	2878.7	2546.9	2145.6	1758.5	1354.0	1025.4	788.4	622.5	568.8	562.5
15°	3009.8	2834.5	2423.7	1888.1	1403.0	922.7	594.1	447.1	395.0	385.5	383.9
17.5°	2973.5	2780.7	2249.9	1633.7	1039.6	560.9	395.0	365.0	355.5	349.2	346.0
20°	2971.9	2749.1	2099.8	1373.0	693.6	382.4	341.3	330.2	316.0	311.3	311.3
22.5°	2945.1	2682.8	1919.7	1087.0	442.4	328.6	306.5	289.1	273.3	267.0	265.4
25°	2937.2	2605.4	1750.6	816.8	336.5	293.9	271.8	246.5	227.5	218.0	213.3
27.5°	2915.0	2539.0	1580.0	575.1	293.9	262.3	233.8	207.0	184.9	170.6	169.1
30°	2836.0	2469.5	1390.4	398.2	267.0	232.3	200.7	169.1	146.9	137.5	134.3
32.5°	2802.9	2404.7	1183.4	306.5	243.3	205.4	169.1	140.6	123.2	113.8	112.2
35°	2763.4	2309.9	982.7	267.0	221.2	178.5	142.2	118.5	104.3	96.4	96.4
37.5°	2768.1	2234.1	794.7	241.7	197.5	153.3	121.7	101.1	88.5	80.6	80.6
40°	2753.9	2174.0	617.8	219.6	175.4	131.1	102.7	85.3	74.3	66.4	64.8
42.5°	2818.7	2158.2	466.1	200.7	153.3	112.2	88.5	72.7	61.6	52.1	52.1
45°	2927.7	2183.5	363.4	183.3	131.1	96.4	75.8	60.0	49.0	42.7	41.1
47.5°	3218.4	2283.0	284.4	169.1	112.2	83.7	63.2	49.0	39.5	33.2	31.6
50°	3640.2	2505.8	241.7	148.5	94.8	71.1	52.1	37.9	31.6	25.3	23.7
52.5°	4240.6	2880.3	219.6	131.1	79.0	58.5	41.1	30.0	23.7	19.0	17.4
55°	4894.7	3347.9	199.1	110.6	66.4	47.4	33.2	23.7	17.4	12.6	11.1
57.5°	5405.1	3752.4	181.7	91.6	53.7	37.9	25.3	17.4	12.6	7.9	6.3
60°	5962.8	4036.8	159.6	72.7	44.2	28.4	19.0	12.6	9.5	4.7	4.7
62.5°	6537.9	4370.2	131.1	56.9	34.8	22.1	14.2	9.5	6.3	1.6	1.6
65°	7337.4	4630.9	101.1	44.2	26.9	15.8	11.1	7.9	3.2	0.0	0.0
67.5°	7563.3	4502.9	74.3	34.8	19.0	11.1	7.9	4.7	1.6	0.0	0.0
69°	7337.4	4055.8	64.8	30.0	15.8	9.5	6.3	3.2	1.6	0.0	0.0
70°	6925.0	3708.2	56.9	25.3	14.2	9.5	4.7	3.2	1.6	0.0	0.0
72.5°	5792.1	2843.9	44.2	19.0	11.1	7.9	4.7	3.2	0.0	0.0	0.0
75°	4248.5	1756.9	33.2	14.2	9.5	6.3	4.7	3.2	0.0	0.0	0.0
77.5°	2276.7	641.5	23.7	9.5	6.3	4.7	4.7	3.2	0.0	0.0	0.0
80°	624.1	189.6	17.4	6.3	4.7	3.2	3.2	1.6	0.0	0.0	0.0
82.5°	170.6	49.0	11.1	6.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0
85°	91.6	19.0	6.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	47.4	6.3	4.7	3.2	3.2	1.6	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)