

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: P480224

Luminaire Tested: **IFLD-S-SA3B-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480224
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

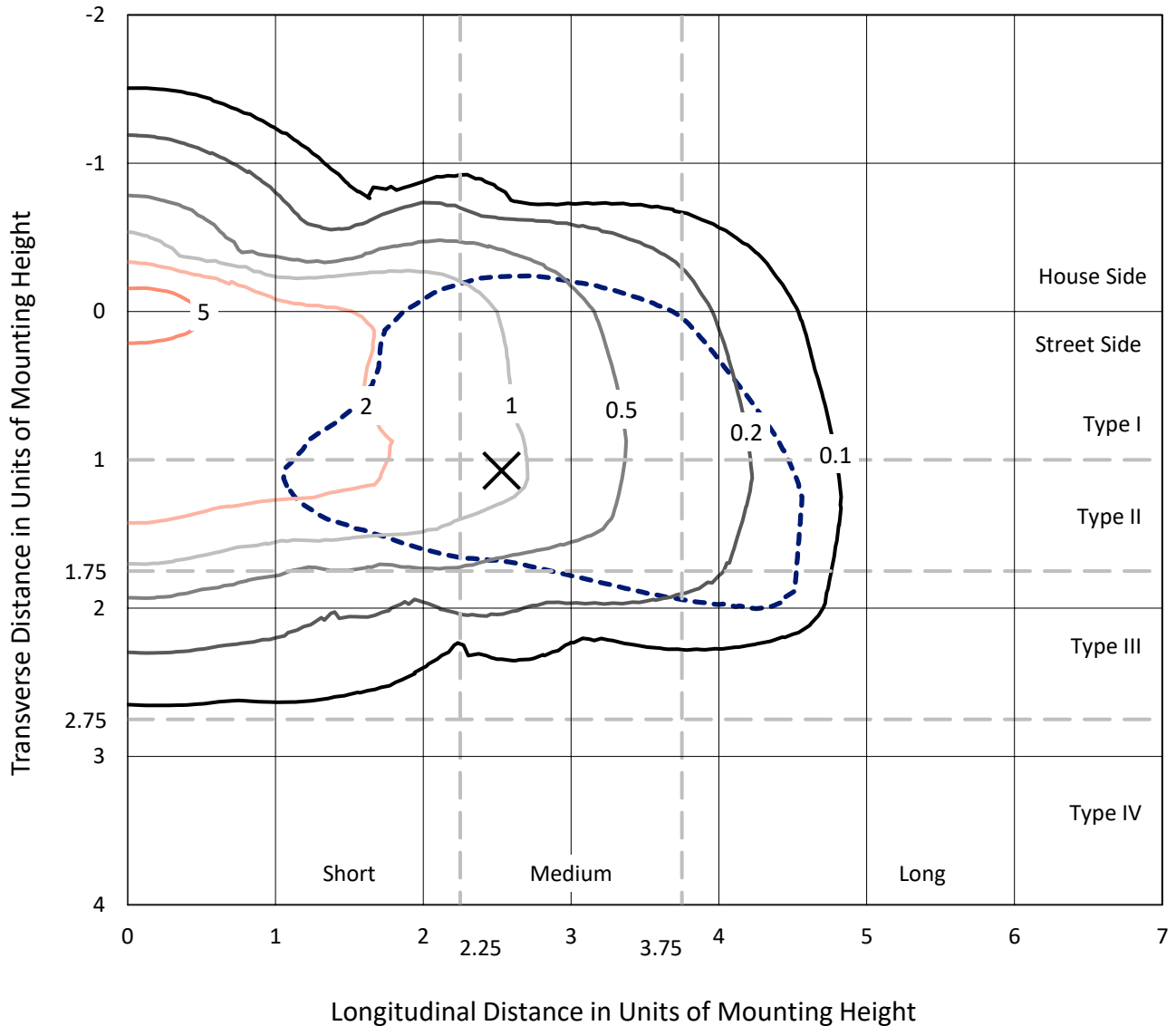
Lumens per Lamp: N/A
Luminaire Lumens: 12471.6 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

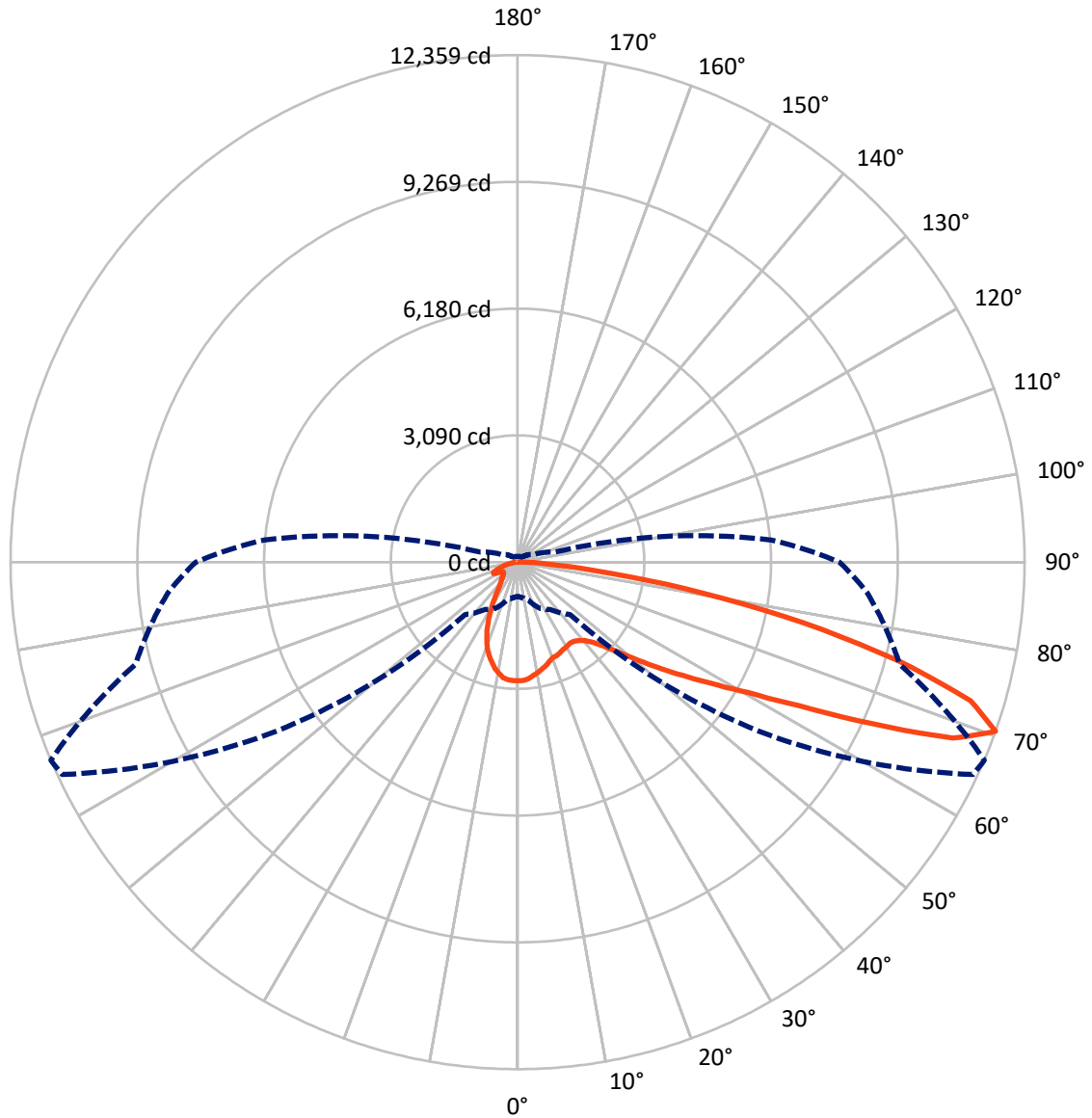
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 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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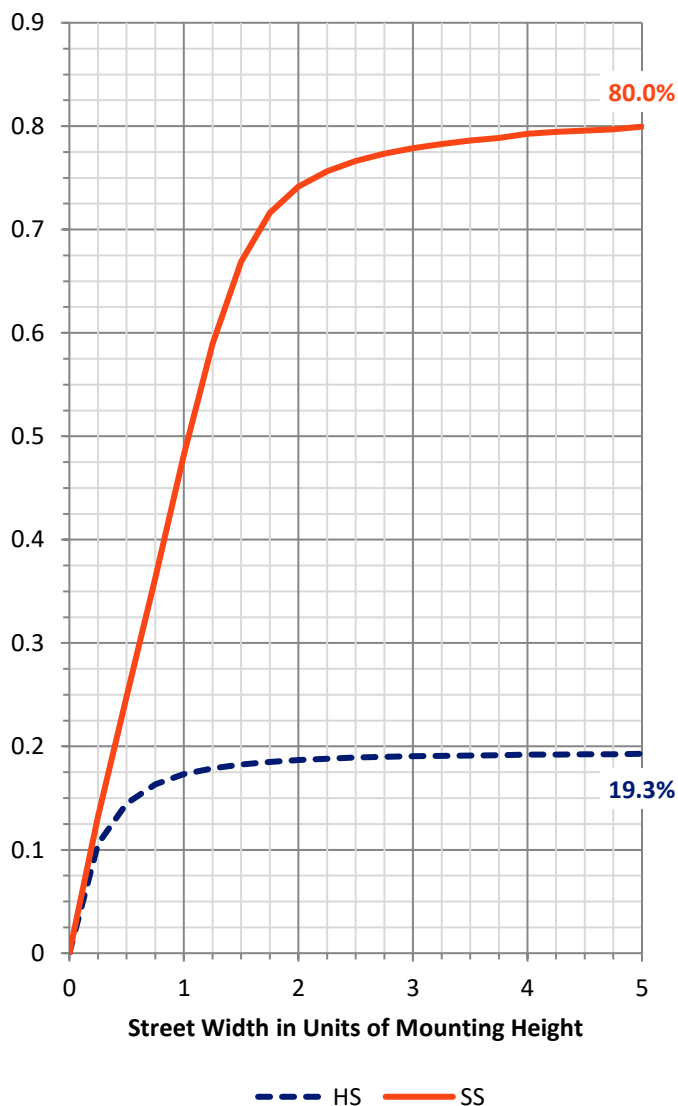
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2429.0	0.0	2429.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10042.6	0.0	10042.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	12471.6	0.0	12471.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.9	2.0
10°-20°	603.3	4.8
20°-30°	814.7	6.5
30°-40°	1090.2	8.7
40°-50°	1603.1	12.9
50°-60°	2498.8	20.0
60°-70°	3078.1	24.7
70°-80°	2175.0	17.4
80°-90°	356.5	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°	12471.6	100.0
0°-180°	12471.6	100.0

Coefficient of Utilization

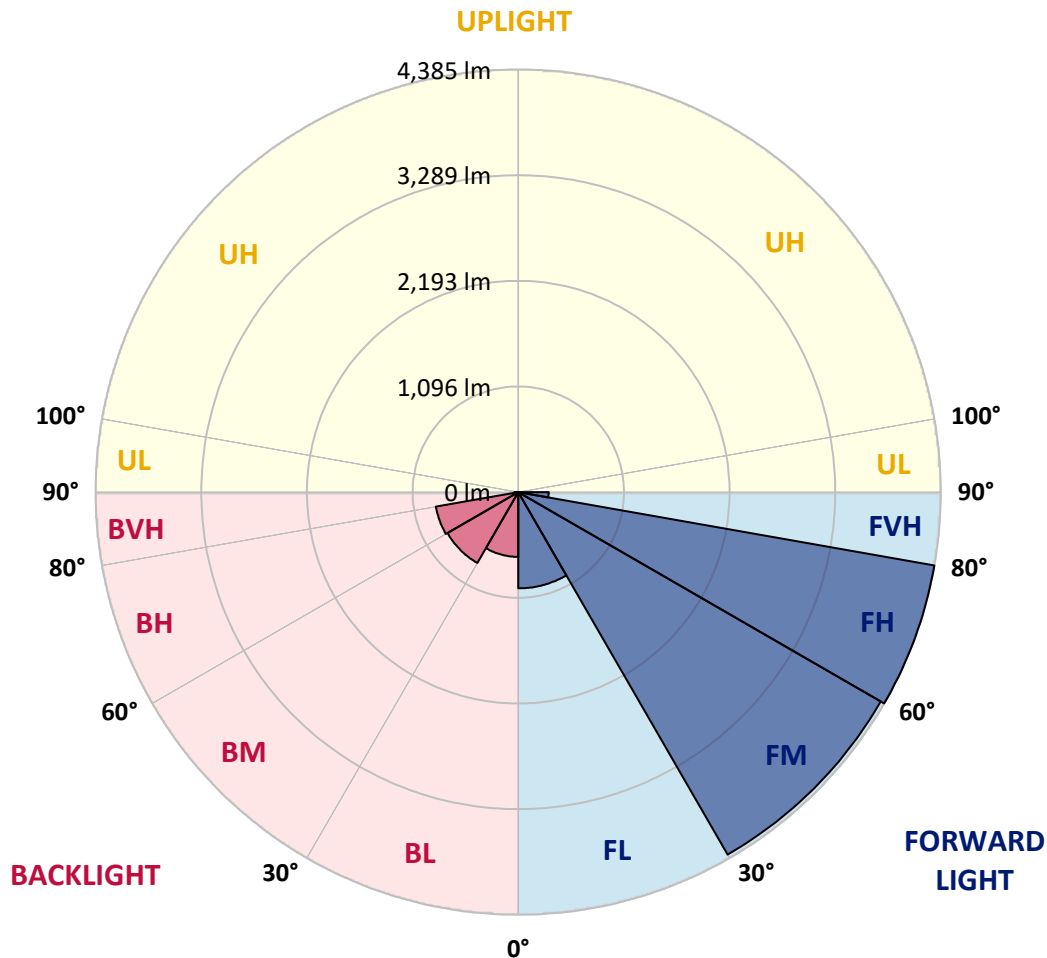


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.3	8.0			
FM (30°-60°)	4343.6	34.8			
FH (60°-80°)	4385.4	35.2			G2/5000
FVH (80°-90°)	315.4	2.5			G3/500
BL (0°-30°)	671.7	5.4	B2/1000		
BM (30°-60°)	848.5	6.8	B1/1000		
BH (60°-80°)	867.7	7.0	B2/1000		G2/1000
BVH (80°-90°)	41.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1
2.5°	2688.3	2718.7	2729.7	2746.3	2789.1	2820.9	2840.2	2862.3	2888.5	2910.6	2924.4
5°	2500.5	2517.1	2543.3	2561.3	2615.1	2700.7	2758.7	2852.6	2849.8	2884.4	2936.8
7.5°	2318.3	2334.8	2347.3	2383.2	2460.5	2537.8	2644.1	2796.0	2785.0	2865.0	2946.5
10°	2205.0	2192.6	2196.8	2257.5	2318.3	2405.2	2539.2	2693.8	2733.9	2858.1	2974.1
12.5°	2098.7	2084.9	2118.1	2156.7	2231.3	2310.0	2470.1	2609.6	2670.4	2833.3	2986.5
15°	2032.4	2022.8	2064.2	2080.8	2169.1	2263.0	2376.3	2546.1	2612.4	2802.9	2967.2
17.5°	1995.2	2003.5	2018.6	2054.5	2111.2	2191.2	2315.5	2503.3	2532.3	2765.6	2963.1
20°	2002.1	2011.7	2013.1	2028.3	2067.0	2129.1	2256.1	2457.7	2477.0	2758.7	2974.1
22.5°	2057.3	2043.5	2049.0	2039.4	2050.4	2098.7	2210.6	2397.0	2471.5	2700.7	2950.6
25°	2140.1	2120.8	2118.1	2084.9	2064.2	2078.0	2202.3	2381.8	2430.1	2682.8	2949.3
27.5°	2286.5	2257.5	2257.5	2207.8	2123.6	2101.5	2178.8	2356.9	2399.7	2666.2	2917.5
30°	2427.3	2427.3	2428.7	2358.3	2264.4	2155.3	2188.5	2347.3	2374.9	2616.5	2874.7
32.5°	2598.6	2594.4	2587.5	2553.0	2408.0	2245.1	2235.4	2334.8	2348.6	2599.9	2862.3
35°	2765.6	2754.6	2808.4	2778.0	2630.3	2420.4	2283.7	2340.4	2370.7	2575.1	2823.6
37.5°	2891.3	2898.2	3010.0	3029.3	2902.3	2619.3	2420.4	2395.6	2424.6	2611.0	2823.6
40°	3054.2	3081.8	3186.7	3251.6	3174.3	2881.6	2637.2	2488.1	2508.8	2691.1	2884.4
42.5°	3268.2	3291.7	3425.6	3509.8	3487.7	3215.7	2851.2	2681.4	2664.8	2825.0	2975.5
45°	3551.3	3555.4	3690.7	3806.7	3852.3	3565.1	3190.9	2925.8	2912.0	3055.6	3142.6
47.5°	3888.2	3884.0	3968.2	4092.5	4215.4	3982.1	3581.6	3297.2	3247.5	3385.6	3420.1
50°	4214.0	4196.1	4215.4	4374.2	4610.3	4504.0	4056.6	3751.5	3701.8	3777.7	3837.1
52.5°	4393.5	4415.6	4363.1	4573.0	5030.0	5121.2	4686.2	4294.1	4251.3	4288.6	4392.1
55°	4267.9	4313.4	4278.9	4477.7	5213.7	5873.7	5500.9	4922.3	4867.1	4853.3	5023.1
57.5°	3733.5	3816.4	3823.3	4138.1	5150.2	6456.3	6646.9	5663.8	5580.9	5440.1	5615.5
60°	2866.4	2949.3	3012.8	3385.6	4606.1	6804.3	7975.2	6718.7	6445.3	6080.8	6185.7
62.5°	2009.0	2065.6	2129.1	2358.3	3551.3	6599.9	9123.9	8204.4	7700.4	6756.0	6887.1
65°	1463.6	1507.8	1572.7	1708.0	2181.6	5460.8	9656.9	9968.9	9491.2	7614.8	7598.2
67.5°	1101.8	1129.4	1215.1	1431.8	1511.9	3373.1	9104.6	11832.9	11446.3	8568.9	8169.8
70°	834.0	857.4	937.5	1234.4	1412.5	1808.8	7182.6	12248.5	12359.0	9638.9	8553.7
72.5°	574.4	600.6	690.4	1028.7	1344.8	1434.6	4508.1	11127.4	11545.7	10079.4	8142.2
75°	352.1	370.0	422.5	780.1	1335.2	1402.8	2481.2	9118.4	9561.6	9313.1	7123.2
77.5°	248.5	247.2	256.8	457.0	1157.1	1411.1	1529.9	6681.4	7112.2	6863.7	4834.0
80°	180.9	182.3	191.9	273.4	785.6	1434.6	1205.4	4475.0	4603.4	3578.9	1906.8
82.5°	109.1	114.6	138.1	185.0	472.2	1295.1	1114.3	2486.7	2326.5	1148.8	524.7
85°	58.0	58.0	81.5	117.4	251.3	966.5	1072.8	1183.3	991.4	356.2	194.7
87.5°	13.8	13.8	23.5	46.9	100.8	462.5	731.8	470.8	376.9	120.1	80.1
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°	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1	2887.1
2.5°	2918.9	2902.3	2923.0	2881.6	2848.5	2849.8	2798.8	2796.0	2789.1	2753.2	2765.6
5°	2952.0	2938.2	2914.7	2869.2	2796.0	2722.8	2678.6	2622.0	2598.6	2586.1	2591.6
7.5°	2983.8	2958.9	2891.3	2827.8	2714.5	2576.5	2496.4	2420.4	2323.8	2312.7	2293.4
10°	2992.1	2939.6	2852.6	2717.3	2566.8	2413.5	2231.3	2090.4	2015.9	1957.9	1935.8
12.5°	2979.6	2957.5	2790.5	2616.5	2388.7	2148.4	1935.8	1737.0	1598.9	1527.1	1507.8
15°	2978.3	2939.6	2721.4	2463.2	2171.9	1858.5	1556.1	1317.2	1172.2	1112.9	1112.9
17.5°	2979.6	2887.1	2640.0	2308.6	1916.5	1492.6	1159.8	963.8	883.7	875.4	882.3
20°	2952.0	2848.5	2554.4	2126.3	1596.1	1121.2	842.3	762.2	762.2	773.2	777.4
22.5°	2927.2	2790.5	2419.1	1901.3	1270.3	811.9	684.8	661.4	687.6	706.9	715.2
25°	2892.6	2742.1	2281.0	1667.9	966.5	654.5	595.1	600.6	625.5	660.0	657.2
27.5°	2842.9	2657.9	2116.7	1397.3	719.4	564.7	549.5	552.3	578.5	593.7	591.0
30°	2786.3	2572.3	1964.8	1128.1	570.2	517.8	516.4	523.3	527.4	535.7	534.3
32.5°	2714.5	2459.1	1803.2	876.8	513.6	491.5	486.0	481.9	486.0	484.6	480.5
35°	2663.4	2398.3	1638.9	668.3	481.9	468.1	463.9	457.0	451.5	443.2	441.8
37.5°	2649.6	2337.6	1466.3	545.4	457.0	450.1	436.3	423.9	417.0	412.8	410.1
40°	2641.4	2297.6	1297.9	479.1	436.3	429.4	412.8	396.3	389.4	385.2	386.6
42.5°	2670.4	2275.5	1126.7	446.0	418.4	405.9	388.0	368.7	367.3	364.5	368.7
45°	2772.5	2303.1	967.9	422.5	400.4	379.7	356.2	346.6	345.2	342.4	345.2
47.5°	3004.5	2372.1	832.6	407.3	381.1	363.1	338.3	324.5	323.1	321.7	321.7
50°	3324.8	2584.7	719.4	389.4	368.7	343.8	320.3	305.1	302.4	296.9	296.9
52.5°	3827.4	2942.4	651.7	379.7	346.6	325.9	301.0	284.4	277.5	272.0	272.0
55°	4393.5	3385.6	639.3	363.1	323.1	303.8	281.7	265.1	258.2	251.3	248.5
57.5°	5038.3	3972.4	727.6	352.1	306.5	281.7	256.8	241.6	236.1	229.2	226.4
60°	5638.9	4557.8	1002.4	335.5	291.3	261.0	236.1	220.9	214.0	207.1	207.1
62.5°	6333.5	5282.7	1467.7	335.5	277.5	238.9	214.0	203.0	198.8	191.9	190.5
65°	7155.0	6032.5	1807.4	356.2	273.4	219.5	193.3	182.3	178.1	174.0	172.6
67.5°	7780.5	6463.2	1554.7	411.5	291.3	203.0	172.6	165.7	162.9	158.8	156.0
70°	7846.7	6200.9	937.5	444.6	309.3	186.4	154.6	147.7	147.7	143.6	140.8
72.5°	7251.6	5502.2	631.0	396.3	280.3	167.1	136.7	131.2	128.4	125.6	124.3
75°	6068.4	4666.9	498.4	316.2	215.4	138.1	118.7	113.2	109.1	107.7	104.9
77.5°	4075.9	3033.5	368.7	247.2	158.8	111.8	99.4	93.9	89.7	88.4	84.2
80°	1565.8	1155.7	237.5	179.5	111.8	88.4	78.7	73.2	70.4	66.3	63.5
82.5°	461.2	374.2	132.6	110.5	71.8	60.8	56.6	52.5	48.3	44.2	42.8
85°	190.5	171.2	81.5	58.0	44.2	35.9	33.1	29.0	24.9	22.1	19.3
87.5°	88.4	73.2	37.3	22.1	15.2	8.3	4.1	1.4	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)