

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: P479056

Luminaire Tested: **IFLD-S-SA3D-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479056
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

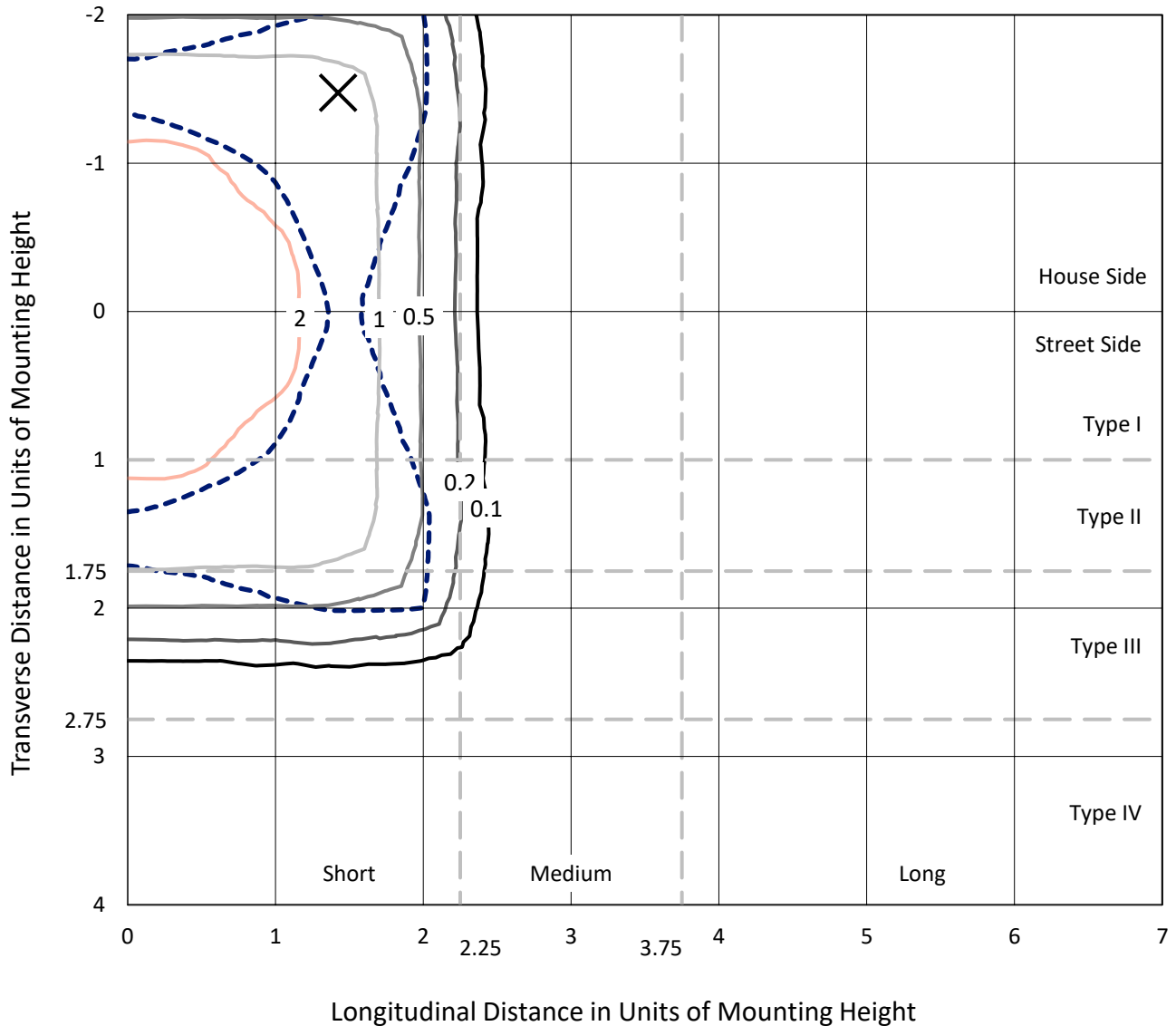
Lumens per Lamp: N/A
Luminaire Lumens: 17088 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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

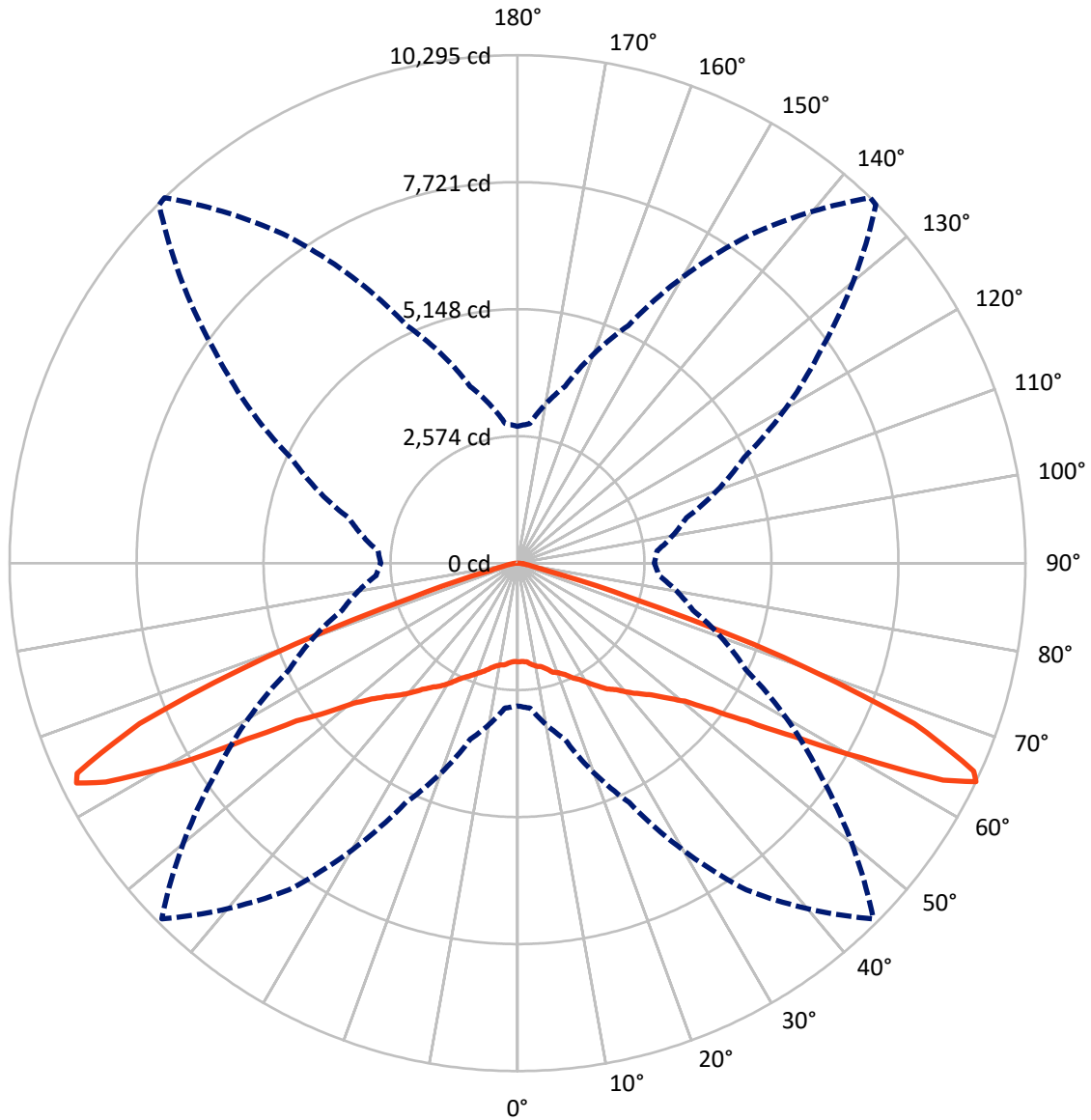
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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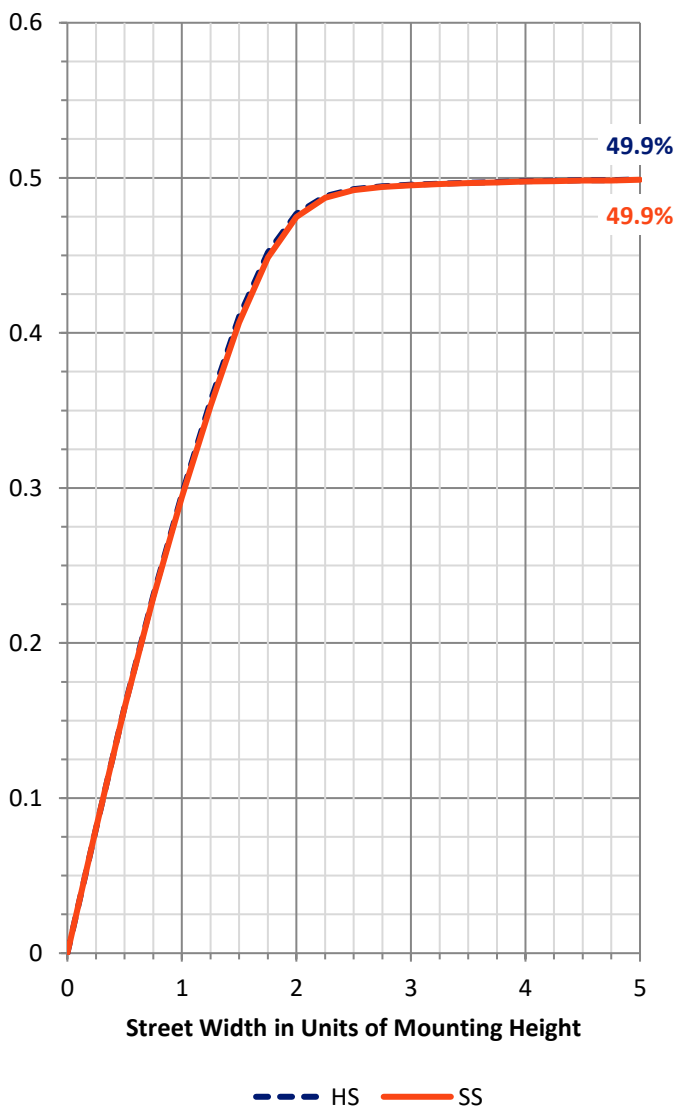
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8552.1	0.0	8552.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8535.8	0.0	8535.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17088.0	0.0	17088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.2
10°-20°	633.6	3.7
20°-30°	1190.7	7.0
30°-40°	1963.7	11.5
40°-50°	3071.2	18.0
50°-60°	4962.3	29.0
60°-70°	4468.2	26.1
70°-80°	529.3	3.1
80°-90°	72.4	0.4
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°	17088.0	100.0
0°-180°	17088.0	100.0

Coefficient of Utilization



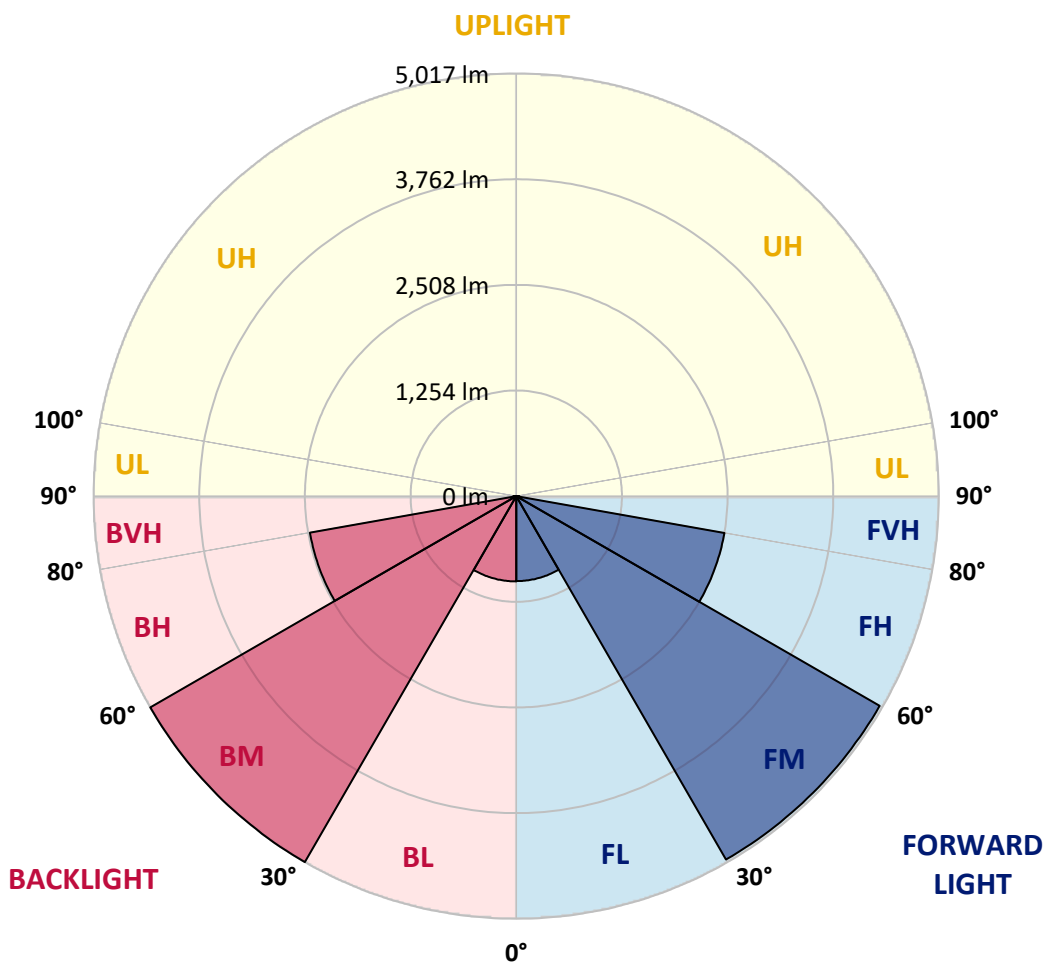
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.5	5.9			
FM (30°-60°)	4980.6	29.1			
FH (60°-80°)	2509.6	14.7			G2/5000
FVH (80°-90°)	37.2	0.2			G1/100
BL (0°-30°)	1012.4	5.9	B3/2500		
BM (30°-60°)	5016.6	29.4	B4/8500		
BH (60°-80°)	2487.9	14.6	B3/2500		G2/5000
BVH (80°-90°)	35.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7
2.5°	1977.1	1981.1	2016.3	2002.6	2014.4	1992.8	2008.5	2041.8	2002.6	2032.0	2041.8
5°	1998.7	2004.6	2004.6	2018.3	2026.1	2022.2	2032.0	2018.3	2055.5	2039.8	2063.4
7.5°	2077.1	2067.3	2051.6	2063.4	2065.3	2075.1	2084.9	2102.5	2096.7	2083.0	2106.5
10°	2090.8	2083.0	2106.5	2108.4	2098.6	2090.8	2100.6	2100.6	2118.2	2122.1	2122.1
12.5°	2114.3	2122.1	2120.2	2135.9	2137.8	2131.9	2147.6	2177.0	2169.2	2175.0	2161.3
15°	2204.4	2194.6	2192.7	2208.4	2233.8	2196.6	2224.0	2222.1	2214.2	2226.0	2194.6
17.5°	2282.8	2251.5	2265.2	2290.7	2280.9	2288.7	2324.0	2292.6	2300.5	2286.7	2276.9
20°	2351.4	2325.9	2327.9	2337.7	2337.7	2361.2	2374.9	2363.2	2355.3	2353.4	2357.3
22.5°	2427.8	2398.4	2400.4	2441.5	2455.3	2447.4	2437.6	2457.2	2461.1	2445.5	2463.1
25°	2484.6	2516.0	2525.8	2545.4	2516.0	2537.6	2529.7	2566.9	2590.5	2559.1	2580.7
27.5°	2633.6	2619.9	2645.3	2643.4	2666.9	2645.3	2659.0	2670.8	2680.6	2682.6	2672.8
30°	2766.8	2772.7	2747.2	2815.8	2760.9	2796.2	2819.7	2825.6	2837.4	2837.4	2808.0
32.5°	2907.9	2896.1	2937.3	2921.6	2911.8	2939.3	2913.8	2994.1	2947.1	2974.5	2941.2
35°	3066.6	3066.6	3082.3	3125.4	3066.6	3049.0	3096.0	3129.3	3129.3	3080.3	3092.1
37.5°	3244.9	3229.3	3248.9	3303.7	3258.7	3199.9	3286.1	3299.8	3290.0	3276.3	3252.8
40°	3370.3	3366.4	3405.6	3478.1	3413.5	3401.7	3417.4	3454.6	3466.4	3480.1	3448.7
42.5°	3582.0	3599.6	3713.3	3695.6	3642.7	3601.6	3597.6	3736.8	3703.5	3668.2	3650.6
45°	3895.5	3879.8	3938.6	3940.6	3872.0	3781.8	3801.4	3928.8	3985.6	3907.2	3936.6
47.5°	4144.3	4152.2	4193.3	4277.6	4118.9	4024.8	4097.3	4303.1	4285.4	4256.0	4283.5
50°	4477.5	4512.7	4642.1	4612.7	4471.6	4356.0	4514.7	4708.7	4730.2	4622.5	4602.9
52.5°	4937.9	4992.8	5063.4	5086.9	4951.7	4910.5	4920.3	5161.3	5108.4	5004.6	4937.9
55°	5341.6	5367.1	5496.4	5690.4	5680.6	5482.7	5596.3	5686.5	5470.9	5257.3	5275.0
57.5°	5514.0	5525.8	5886.3	6274.3	6505.5	6550.6	6421.3	6117.6	5604.2	5192.7	5167.2
60°	5084.9	5196.6	5631.6	6507.5	7563.7	8084.9	7224.7	6166.6	5292.6	4792.9	4755.7
62.5°	4064.0	4069.9	4716.5	6045.1	8222.1	9587.8	7532.3	5706.1	4461.8	3895.5	3746.6
64°	2894.2	2949.1	3691.7	5351.4	8084.9	10199.2	7495.1	5104.5	3678.0	2874.6	2770.7
65°	2077.1	2153.5	2870.7	4646.0	7763.5	10126.7	7383.4	4587.2	2974.5	2194.6	2088.8
67.5°	764.2	795.6	1126.7	2324.0	5574.8	8629.6	5851.1	2521.9	1307.0	930.8	836.7
70°	354.7	356.6	417.4	768.1	2437.6	5770.7	2792.3	946.4	491.8	389.9	362.5
72.5°	260.6	266.5	292.0	354.7	717.2	2443.5	917.0	388.0	288.0	254.7	248.9
75°	211.6	215.5	223.4	256.7	331.2	654.5	372.3	268.5	229.3	205.7	197.9
77.5°	162.6	162.6	180.3	196.0	219.5	305.7	246.9	213.6	186.2	162.6	156.8
80°	117.6	119.5	141.1	152.8	148.9	201.8	178.3	176.4	152.8	127.4	117.6
82.5°	68.6	74.5	101.9	109.7	105.8	119.5	129.3	137.2	119.5	88.2	80.3
85°	39.2	41.1	58.8	60.7	60.7	56.8	74.5	82.3	80.3	54.9	49.0
87.5°	11.8	11.8	15.7	15.7	17.6	19.6	29.4	35.3	39.2	27.4	25.5
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7	2000.7
2.5°	2032.0	2002.6	2004.6	2012.4	1986.9	1996.7	2026.1	2004.6	1998.7	1986.9	1981.1
5°	2022.2	2053.6	2041.8	2045.7	2039.8	2012.4	2008.5	2026.1	2035.9	2018.3	2053.6
7.5°	2090.8	2077.1	2061.4	2067.3	2053.6	2077.1	2092.7	2057.5	2075.1	2065.3	2045.7
10°	2130.0	2104.5	2116.3	2112.3	2102.5	2126.1	2110.4	2106.5	2090.8	2069.2	2100.6
12.5°	2143.7	2173.1	2192.7	2159.4	2165.2	2153.5	2143.7	2143.7	2126.1	2120.2	2126.1
15°	2204.4	2229.9	2222.1	2247.5	2214.2	2226.0	2237.8	2208.4	2224.0	2180.9	2214.2
17.5°	2316.1	2294.6	2322.0	2288.7	2300.5	2324.0	2286.7	2286.7	2298.5	2275.0	2245.6
20°	2386.7	2376.9	2367.1	2369.0	2349.4	2371.0	2359.2	2353.4	2335.7	2343.6	2359.2
22.5°	2453.3	2439.6	2443.5	2449.4	2463.1	2453.3	2447.4	2453.3	2410.2	2449.4	2394.5
25°	2535.6	2572.8	2561.1	2586.5	2547.4	2572.8	2570.9	2533.6	2557.1	2541.5	2529.7
27.5°	2672.8	2653.2	2670.8	2639.4	2666.9	2668.8	2645.3	2708.0	2680.6	2676.7	2668.8
30°	2849.1	2835.4	2823.6	2806.0	2827.6	2809.9	2829.5	2835.4	2809.9	2790.3	2753.1
32.5°	2949.1	2986.3	3000.0	2956.9	2958.8	2968.6	2951.0	2933.4	2949.1	2954.9	2949.1
35°	3090.1	3125.4	3133.2	3099.9	3082.3	3131.3	3096.0	3154.8	3103.9	3105.8	3052.9
37.5°	3254.7	3264.5	3331.2	3293.9	3278.2	3254.7	3319.4	3311.6	3323.3	3229.3	3276.3
40°	3440.9	3476.2	3513.4	3419.3	3417.4	3438.9	3435.0	3480.1	3458.5	3444.8	3411.5
42.5°	3644.7	3719.1	3725.0	3662.3	3623.1	3619.2	3638.8	3738.7	3740.7	3650.6	3611.4
45°	3915.1	3997.4	3975.8	3854.3	3811.2	3805.4	3901.4	3944.5	3981.7	3946.4	3913.1
47.5°	4252.1	4307.0	4291.3	4179.6	4040.5	4079.7	4173.7	4308.9	4269.8	4222.7	4183.5
50°	4612.7	4677.3	4644.0	4532.3	4399.1	4399.1	4514.7	4687.1	4675.4	4583.3	4548.0
52.5°	5012.4	5106.5	5182.9	5024.2	4912.5	4930.1	5112.3	5175.0	5145.7	5081.0	5051.6
55°	5310.2	5490.5	5647.3	5655.1	5661.0	5659.0	5706.1	5768.8	5559.1	5455.3	5349.4
57.5°	5237.7	5578.7	6115.6	6480.1	6587.8	6644.7	6629.0	6339.0	5843.2	5502.3	5537.6
60°	4720.4	5276.9	6143.0	7312.9	8096.7	8018.3	7732.2	6585.9	5686.5	5110.4	5037.9
62.5°	3766.2	4436.3	5682.6	7548.0	9707.4	9683.9	8186.8	6015.7	4738.1	4009.1	3964.1
64°	2837.4	3542.8	5069.2	7487.3	10271.7	10295.2	8071.2	5314.2	3707.4	2837.4	2768.8
65°	2171.1	2825.6	4467.7	7361.8	10150.2	10163.9	7749.8	4589.2	2817.8	2014.4	1939.9
67.5°	864.1	1203.1	2423.9	5582.6	8715.9	8678.6	5529.7	2220.1	1077.7	701.5	687.8
70°	368.4	458.5	850.4	2645.3	5835.4	5727.6	2380.8	721.1	399.7	335.1	333.1
72.5°	252.8	280.2	364.5	817.1	2425.9	2369.0	678.0	335.1	272.4	250.8	250.8
75°	203.8	223.4	264.5	342.9	642.7	619.2	319.4	246.9	217.5	201.8	199.9
77.5°	158.7	178.3	207.7	237.1	293.9	292.0	213.6	186.2	168.5	156.8	152.8
80°	125.4	145.0	164.6	168.5	192.0	188.1	145.0	147.0	137.2	113.7	111.7
82.5°	86.2	117.6	131.3	119.5	113.7	113.7	103.9	103.9	96.0	70.5	64.7
85°	52.9	78.4	82.3	70.5	52.9	52.9	56.8	54.9	50.9	37.2	35.3
87.5°	27.4	37.2	33.3	27.4	17.6	17.6	15.7	11.8	11.8	9.8	9.8
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)