

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: P481353

Luminaire Tested: **IFLD-S-SA2E-760-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481353
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-760-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

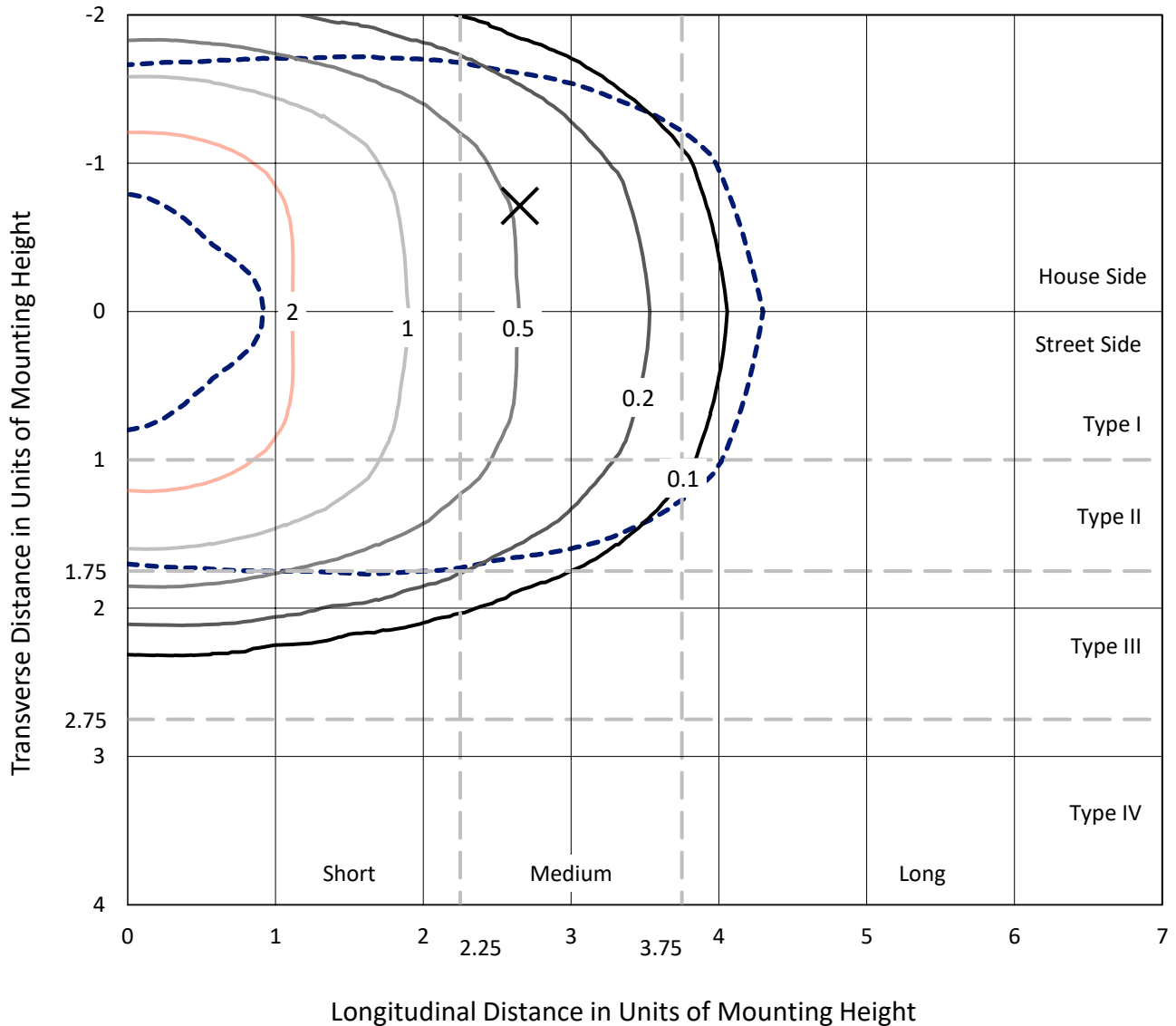
Lumens per Lamp: N/A
Luminaire Lumens: 19069.8 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

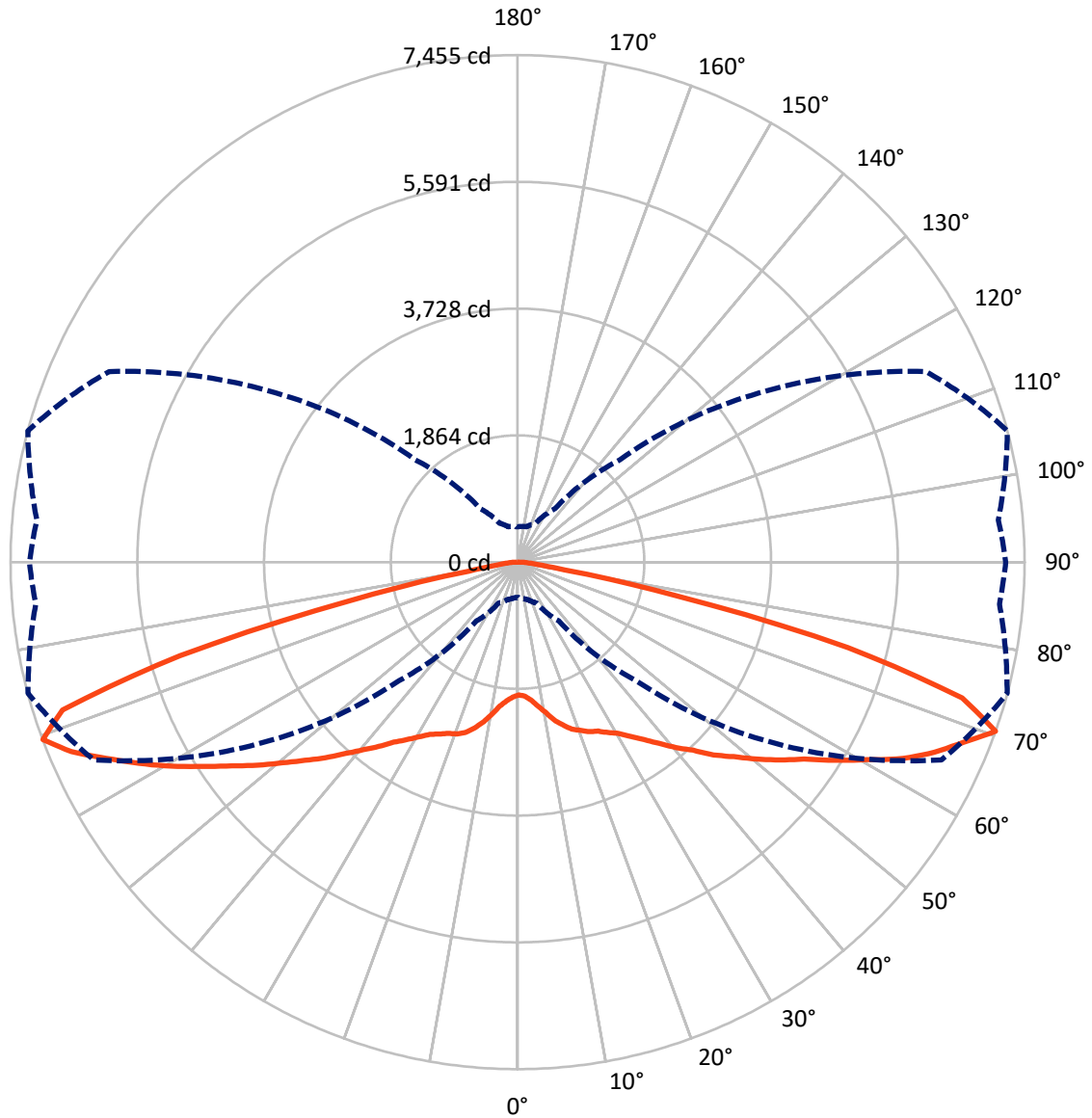
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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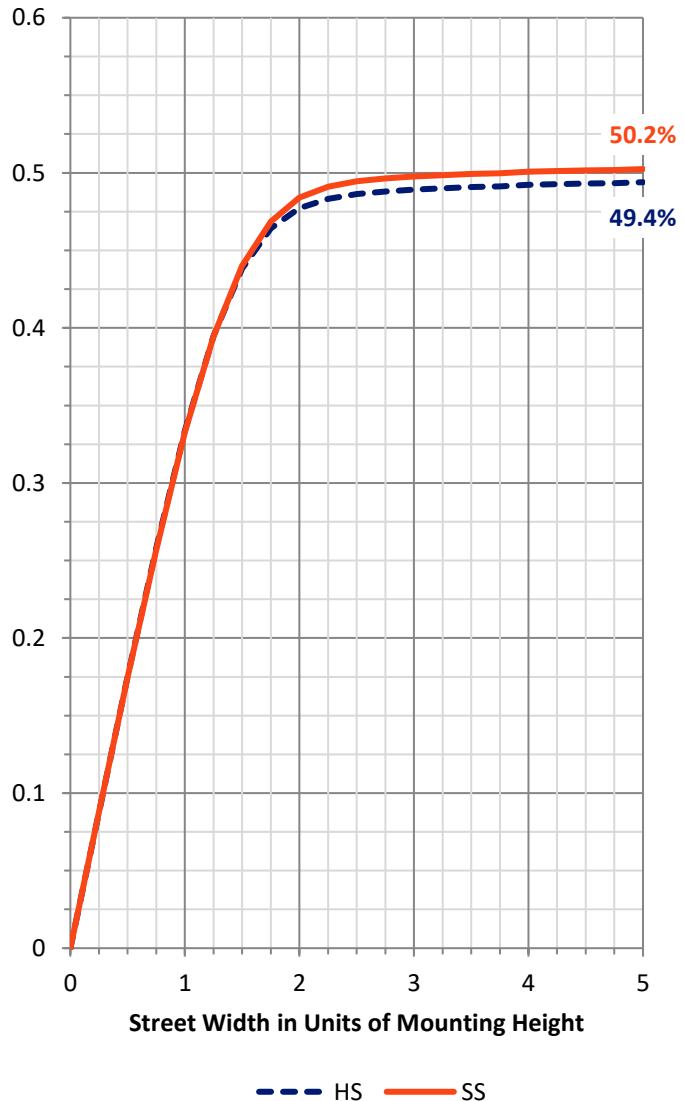
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9467.0	0.0	9467.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9602.7	0.0	9602.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	19069.8	0.0	19069.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	1.0
10°-20°	661.8	3.5
20°-30°	1281.4	6.7
30°-40°	2167.4	11.4
40°-50°	3457.7	18.1
50°-60°	4732.9	24.8
60°-70°	4461.0	23.4
70°-80°	1965.2	10.3
80°-90°	147.9	0.8
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°	19069.8	100.0
0°-180°	19069.8	100.0

Coefficient of Utilization



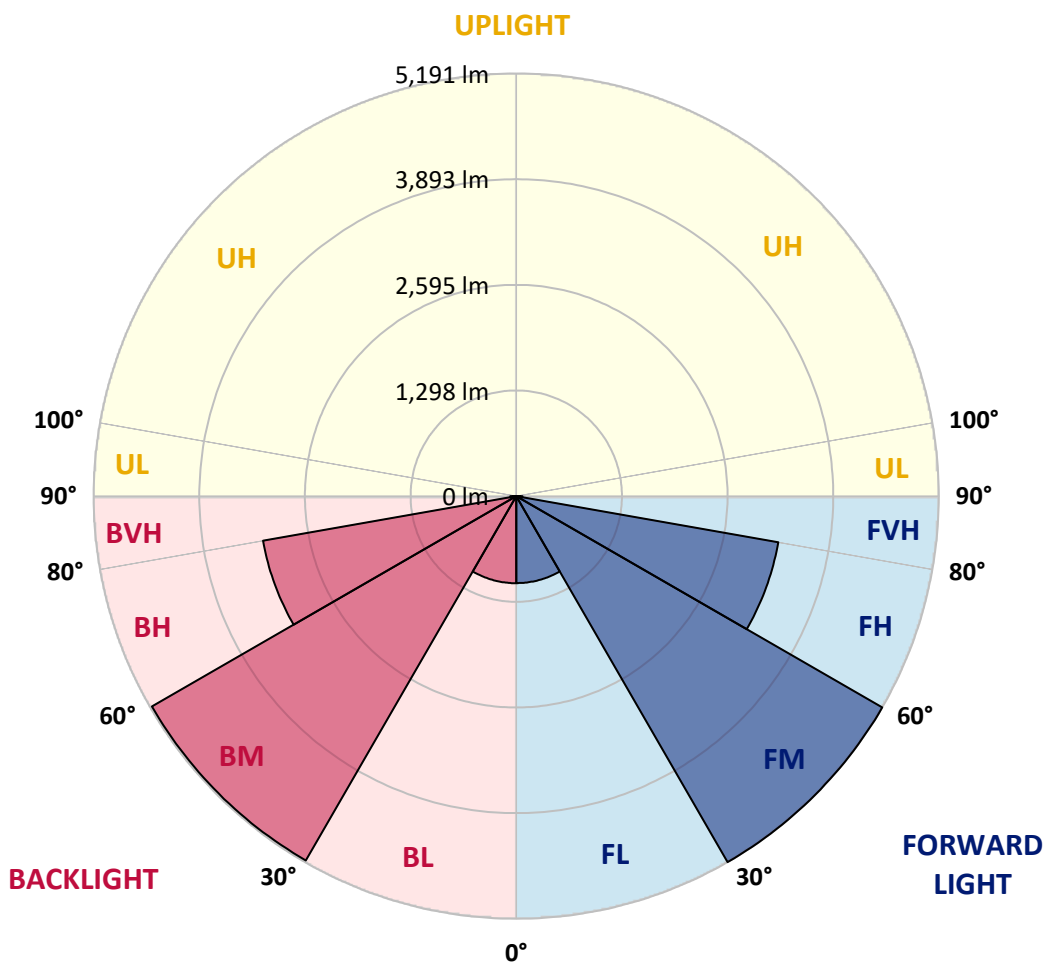
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.2	5.6			
FM (30°-60°)	5190.6	27.2			
FH (60°-80°)	3268.3	17.1			G2/5000
FVH (80°-90°)	75.5	0.4			G1/100
BL (0°-30°)	1069.4	5.6	B3/2500		
BM (30°-60°)	5167.4	27.1	B4/8500		
BH (60°-80°)	3157.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	72.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7
2.5°	1940.4	1940.4	1938.3	1948.6	1958.9	1963.0	1971.2	1973.3	1985.6	1975.3	1995.9
5°	1934.2	1932.2	1948.6	1973.3	1973.3	2000.0	2016.4	2039.1	2045.2	2057.6	2061.7
7.5°	1977.4	1973.3	1965.1	1991.8	2014.4	2055.5	2078.1	2117.2	2131.6	2148.0	2166.5
10°	2004.1	2004.1	1995.9	2043.2	2063.7	2119.2	2168.6	2207.6	2263.1	2281.6	2283.7
12.5°	2008.2	2014.4	2039.1	2100.7	2158.3	2230.2	2267.2	2341.2	2396.7	2431.7	2444.0
15°	2069.9	2057.6	2084.3	2168.6	2252.8	2316.5	2382.3	2435.8	2515.9	2561.2	2589.9
17.5°	2125.4	2113.1	2162.4	2263.1	2349.4	2448.1	2505.7	2563.2	2620.8	2661.9	2663.9
20°	2213.8	2224.1	2267.2	2376.2	2489.2	2575.5	2641.3	2651.6	2680.4	2740.0	2729.7
22.5°	2322.7	2314.5	2404.9	2524.2	2647.5	2719.4	2756.4	2729.7	2715.3	2779.0	2793.4
25°	2431.7	2456.3	2538.5	2649.5	2797.5	2894.1	2904.4	2830.4	2777.0	2799.6	2793.4
27.5°	2598.2	2602.3	2688.6	2820.1	2970.2	3054.5	3048.3	2943.5	2840.7	2842.8	2846.9
30°	2811.9	2791.4	2885.9	3005.1	3153.1	3229.2	3239.5	3089.4	2951.7	2910.6	2920.9
32.5°	3017.5	3042.1	3124.4	3260.0	3369.0	3412.1	3389.5	3255.9	3077.1	3021.6	3027.8
35°	3280.6	3276.5	3389.5	3504.6	3586.8	3595.1	3576.6	3381.3	3212.7	3140.8	3112.0
37.5°	3562.2	3599.2	3673.2	3767.7	3854.1	3858.2	3757.5	3601.2	3393.6	3274.4	3309.4
40°	3876.7	3917.8	3971.2	4108.9	4172.7	4106.9	4004.1	3792.4	3576.6	3471.7	3488.2
42.5°	4154.2	4172.7	4281.6	4444.0	4474.8	4446.0	4293.9	4037.0	3786.2	3671.1	3679.3
45°	4409.0	4433.7	4575.5	4721.5	4793.4	4744.1	4567.3	4322.7	4030.8	3932.2	3893.1
47.5°	4643.4	4692.7	4830.4	4980.5	5091.5	5095.6	4877.7	4581.7	4273.4	4143.9	4141.8
50°	4801.6	4873.6	5009.3	5179.9	5342.2	5406.0	5188.1	4869.5	4538.5	4400.8	4386.4
52.5°	4888.0	4962.0	5097.6	5362.8	5543.7	5642.3	5539.6	5138.7	4848.9	4705.0	4682.4
55°	4783.1	4832.5	5054.5	5426.5	5706.1	5868.5	5800.6	5510.8	5157.2	5040.1	5060.6
57.5°	4337.1	4439.9	4713.3	5177.8	5702.0	6100.7	6094.6	5862.3	5512.9	5401.9	5406.0
60°	3570.4	3656.7	3993.8	4643.4	5471.7	6195.3	6413.2	6203.5	5911.6	5782.1	5778.0
62.5°	2520.0	2629.0	3019.5	3728.7	4793.4	6063.7	6779.0	6633.1	6302.2	6207.6	6242.6
65°	1410.1	1475.8	1837.6	2478.9	3652.6	5340.2	6844.8	7079.1	6698.9	6555.0	6561.2
67.5°	754.4	779.0	947.6	1301.1	2234.3	4117.2	6180.9	7336.1	7128.5	6879.8	6840.7
70°	518.0	526.2	569.4	666.0	1056.5	2462.5	4661.9	6877.7	7451.2	7112.0	7177.8
72.5°	437.8	433.7	444.0	454.3	552.9	1101.7	2735.9	5292.9	7033.9	6906.5	6881.8
75°	380.3	378.2	382.3	372.0	384.4	485.1	1210.7	3299.1	5149.0	5747.2	5839.7
77.5°	314.5	316.5	318.6	308.3	304.2	320.7	487.2	1449.1	2534.4	2797.5	3017.5
80°	238.4	242.5	259.0	248.7	232.3	234.3	287.8	485.1	727.6	659.8	680.4
82.5°	162.4	164.4	199.4	187.1	174.7	158.3	185.0	250.8	283.7	215.8	189.1
85°	115.1	113.1	129.5	119.2	111.0	80.2	111.0	141.8	170.6	106.9	96.6
87.5°	26.7	26.7	53.4	43.2	41.1	32.9	43.2	55.5	74.0	47.3	43.2
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°	145°	155°	165°	175°	180°
0°	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7
2.5°	1989.7	1971.2	1971.2	1967.1	1950.7	1946.6	1932.2	1936.3	1926.0	1915.7
5°	2059.6	2034.9	2034.9	2000.0	1967.1	1963.0	1946.6	1946.6	1930.1	1934.2
7.5°	2156.2	2133.6	2096.6	2065.8	2020.6	2002.1	1971.2	1967.1	1963.0	1954.8
10°	2271.3	2242.6	2205.6	2141.8	2104.8	2069.9	2039.1	1995.9	1985.6	1987.7
12.5°	2427.5	2382.3	2302.2	2246.7	2199.4	2154.2	2108.9	2045.2	2030.8	2037.0
15°	2538.5	2481.0	2400.8	2380.3	2316.5	2261.0	2187.1	2115.1	2090.4	2084.3
17.5°	2629.0	2581.7	2534.4	2503.6	2452.2	2384.4	2281.6	2199.4	2143.9	2137.7
20°	2703.0	2641.3	2631.0	2649.5	2585.8	2540.6	2415.2	2314.5	2240.5	2209.7
22.5°	2748.2	2709.1	2737.9	2754.4	2750.3	2674.2	2544.7	2427.5	2335.0	2306.3
25°	2797.5	2752.3	2855.1	2910.6	2925.0	2799.6	2698.9	2544.7	2454.3	2435.8
27.5°	2822.2	2838.6	2957.9	3075.0	3064.8	2968.1	2832.5	2694.8	2622.8	2589.9
30°	2894.1	2920.9	3101.7	3233.3	3235.4	3140.8	3038.0	2881.8	2801.6	2787.3
32.5°	3023.6	3056.6	3249.7	3389.5	3414.2	3342.2	3239.5	3142.9	3060.6	3027.8
35°	3122.3	3206.6	3424.5	3551.9	3617.7	3574.5	3517.0	3416.2	3329.9	3301.1
37.5°	3264.1	3381.3	3591.0	3763.6	3837.6	3833.5	3790.3	3681.4	3609.5	3584.8
40°	3467.6	3584.8	3776.0	4004.1	4141.8	4135.7	4111.0	4026.7	3919.8	3907.5
42.5°	3683.5	3780.1	4028.8	4289.8	4487.2	4466.6	4400.8	4302.2	4228.2	4211.7
45°	3893.1	4043.2	4273.4	4608.4	4756.4	4807.8	4729.7	4561.2	4476.9	4466.6
47.5°	4156.2	4275.4	4563.2	4863.3	5083.3	5091.5	4957.9	4801.6	4647.5	4680.4
50°	4390.5	4548.8	4840.7	5169.6	5432.7	5338.1	5167.5	4972.3	4861.3	4818.1
52.5°	4641.3	4834.5	5173.7	5508.7	5654.7	5560.1	5282.6	5064.8	4896.2	4877.7
55°	5007.2	5107.9	5551.9	5808.8	5856.1	5656.7	5247.7	4939.4	4721.5	4668.0
57.5°	5379.2	5496.4	5884.9	6106.9	6057.6	5603.3	5021.6	4544.7	4259.0	4182.9
60°	5755.4	5899.3	6226.1	6429.6	6174.7	5235.4	4382.3	3767.7	3434.7	3366.9
62.5°	6174.7	6361.8	6653.7	6725.6	5827.3	4507.7	3477.9	2719.4	2382.3	2269.3
65°	6546.8	6737.9	7097.6	6663.9	5089.4	3362.8	2248.7	1554.0	1305.2	1214.8
67.5°	6853.0	7068.9	7245.6	5897.2	3726.6	1969.2	1171.6	818.1	725.6	692.7
70°	7095.6	7455.3	6629.0	4335.0	2129.5	959.9	633.1	538.5	526.2	518.0
72.5°	6883.9	6836.6	4949.6	2501.5	933.2	528.3	458.4	444.0	441.9	444.0
75°	5630.0	5021.6	2959.9	1087.4	468.7	382.3	380.3	374.1	384.4	384.4
77.5°	2731.8	2388.5	1237.4	466.6	308.3	300.1	310.4	310.4	310.4	310.4
80°	633.1	700.9	441.9	283.7	224.0	224.0	246.7	248.7	238.4	234.3
82.5°	215.8	287.8	242.5	178.8	148.0	166.5	187.1	191.2	158.3	160.3
85°	106.9	168.6	131.6	102.8	76.1	102.8	121.3	127.4	108.9	104.8
87.5°	49.3	74.0	49.3	34.9	26.7	37.0	34.9	28.8	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)