

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: P481275

Luminaire Tested: **IFLD-S-SA2E-740-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481275  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-740-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

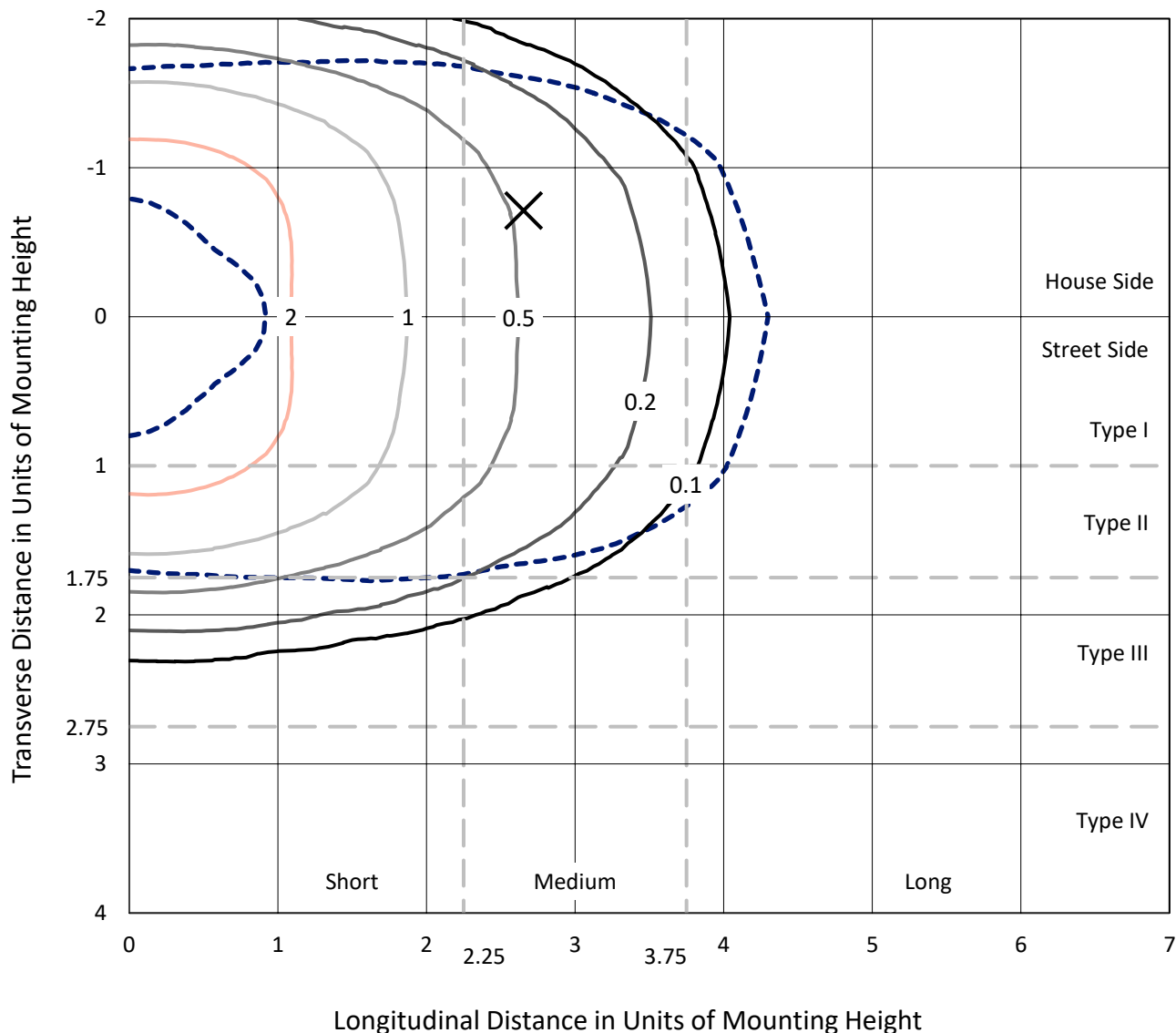
Lumens per Lamp: N/A  
Luminaire Lumens: 18642.8 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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

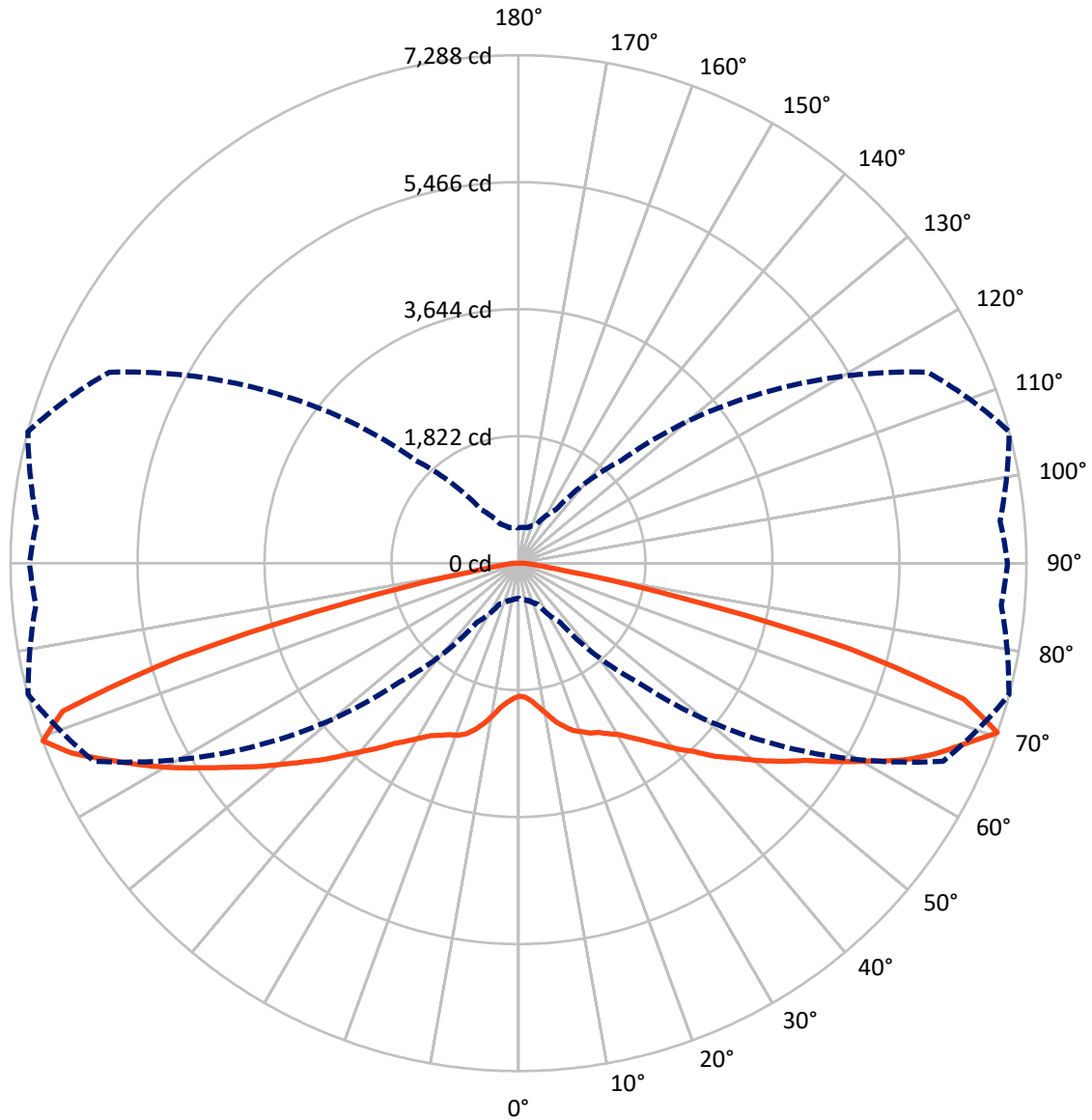
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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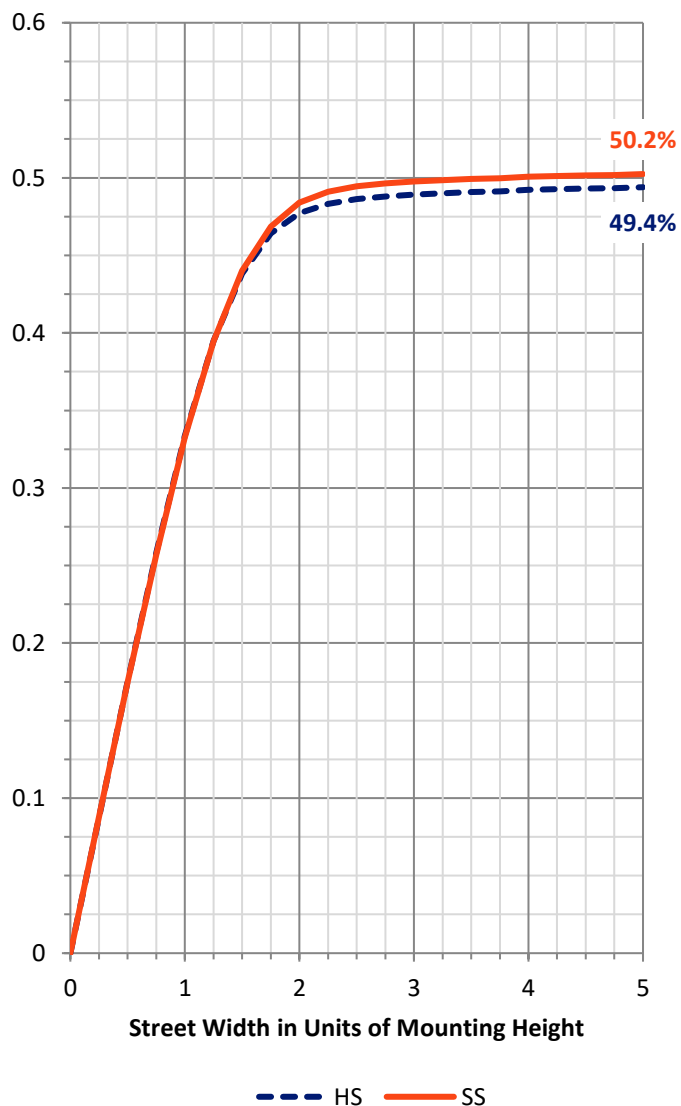
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9255.1	0.0	9255.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9387.7	0.0	9387.7
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	18642.8	0.0	18642.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.0	1.0
10°-20°	647.0	3.5
20°-30°	1252.8	6.7
30°-40°	2118.9	11.4
40°-50°	3380.3	18.1
50°-60°	4626.9	24.8
60°-70°	4361.2	23.4
70°-80°	1921.2	10.3
80°-90°	144.6	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°	18642.8	100.0
0°-180°	18642.8	100.0

**Coefficient of Utilization**

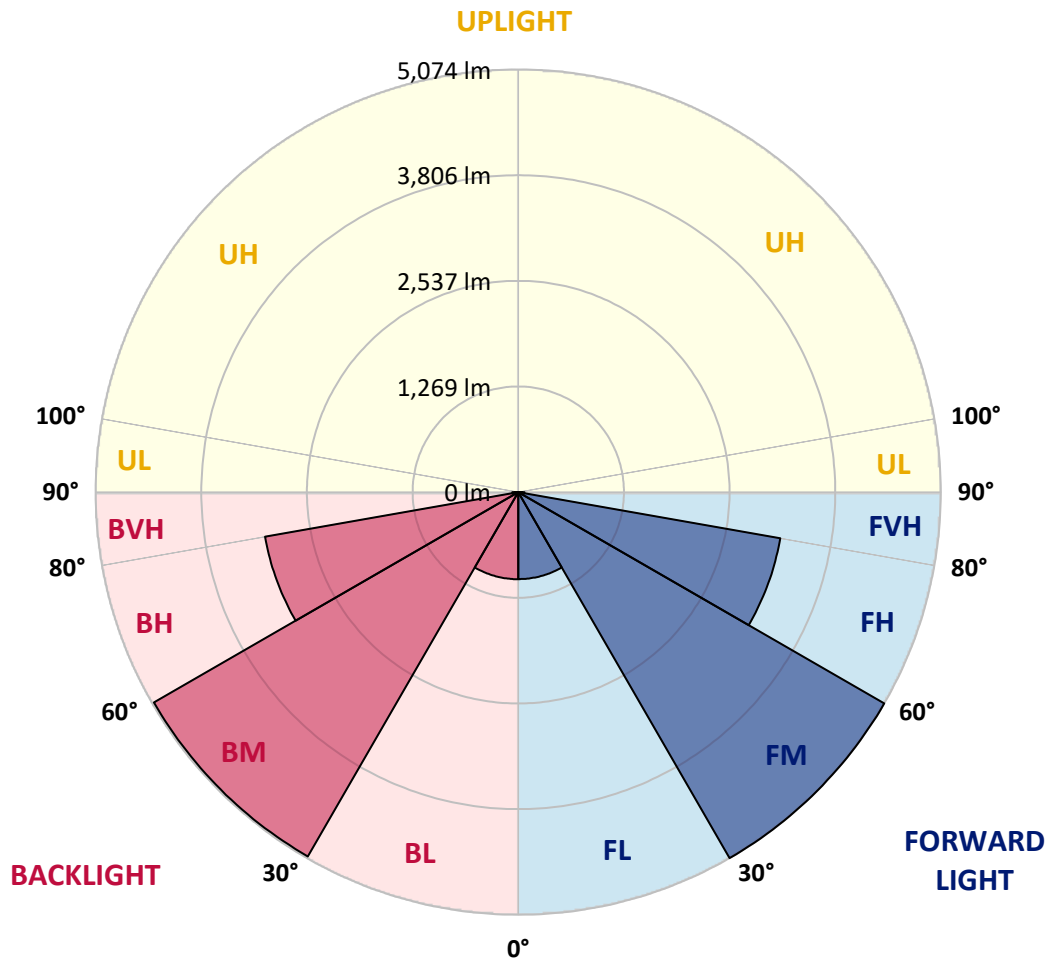


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.3	5.6			
FM (30°-60°)	5074.4	27.2			
FH (60°-80°)	3195.2	17.1			G2/5000
FVH (80°-90°)	73.8	0.4			G1/100
BL (0°-30°)	1045.4	5.6	B3/2500		
BM (30°-60°)	5051.7	27.1	B4/8500		
BH (60°-80°)	3087.2	16.6	B4/5000		G4/5000
BVH (80°-90°)	70.7	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°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1897.0	1897.0	1894.9	1905.0	1915.0	1919.1	1927.1	1929.1	1941.2	1931.1	1951.2
5°	1890.9	1888.9	1905.0	1929.1	1929.1	1955.2	1971.3	1993.4	1999.4	2011.5	2015.5
7.5°	1933.1	1929.1	1921.1	1947.2	1969.3	2009.5	2031.6	2069.8	2083.8	2099.9	2118.0
10°	1959.2	1959.2	1951.2	1997.4	2017.5	2071.8	2120.0	2158.2	2212.4	2230.5	2232.5
12.5°	1963.3	1969.3	1993.4	2053.7	2110.0	2180.3	2216.5	2288.8	2343.1	2377.2	2389.3
15°	2023.5	2011.5	2037.6	2120.0	2202.4	2264.7	2329.0	2381.2	2459.6	2503.8	2531.9
17.5°	2077.8	2065.7	2114.0	2212.4	2296.8	2393.3	2449.6	2505.8	2562.1	2602.3	2604.3
20°	2164.2	2174.3	2216.5	2323.0	2433.5	2517.9	2582.2	2592.2	2620.4	2678.6	2668.6
22.5°	2270.7	2262.7	2351.1	2467.6	2588.2	2658.5	2694.7	2668.6	2654.5	2716.8	2730.9
25°	2377.2	2401.3	2481.7	2590.2	2734.9	2829.4	2839.4	2767.1	2714.8	2736.9	2730.9
27.5°	2540.0	2544.0	2628.4	2757.0	2903.7	2986.1	2980.1	2877.6	2777.1	2779.1	2783.1
30°	2749.0	2728.9	2821.3	2937.9	3082.5	3156.9	3166.9	3020.3	2885.6	2845.4	2855.5
32.5°	2949.9	2974.0	3054.4	3187.0	3293.5	3335.7	3313.6	3183.0	3008.2	2953.9	2960.0
35°	3207.1	3203.1	3313.6	3426.2	3506.5	3514.6	3496.5	3305.6	3140.8	3070.5	3042.4
37.5°	3482.4	3518.6	3590.9	3683.4	3767.8	3771.8	3673.3	3520.6	3317.7	3201.1	3235.3
40°	3789.9	3830.1	3882.3	4017.0	4079.2	4014.9	3914.5	3707.5	3496.5	3394.0	3410.1
42.5°	4061.2	4079.2	4185.8	4344.5	4374.6	4346.5	4197.8	3946.6	3701.5	3588.9	3597.0
45°	4310.3	4334.5	4473.1	4615.8	4686.1	4637.9	4465.1	4225.9	3940.6	3844.1	3806.0
47.5°	4539.4	4587.6	4722.3	4869.0	4977.5	4981.5	4768.5	4479.1	4177.7	4051.1	4049.1
50°	4694.2	4764.5	4897.1	5063.9	5222.6	5284.9	5071.9	4760.5	4436.9	4302.3	4288.2
52.5°	4778.5	4850.9	4983.5	5242.7	5419.6	5516.0	5415.6	5023.7	4740.4	4599.7	4577.6
55°	4676.1	4724.3	4941.3	5305.0	5578.3	5737.1	5670.8	5387.4	5041.8	4927.3	4947.3
57.5°	4240.0	4340.5	4607.7	5061.9	5574.3	5964.1	5958.1	5731.0	5389.4	5280.9	5284.9
60°	3490.5	3574.9	3904.4	4539.4	5349.2	6056.6	6269.6	6064.6	5779.3	5652.7	5648.7
62.5°	2463.6	2570.1	2951.9	3645.2	4686.1	5928.0	6627.3	6484.6	6161.1	6068.6	6102.8
65°	1378.5	1442.8	1796.5	2423.4	3570.9	5220.6	6691.6	6920.7	6548.9	6408.2	6414.3
67.5°	737.5	761.6	926.4	1272.0	2184.3	4025.0	6042.5	7171.8	6968.9	6725.7	6687.6
70°	506.4	514.4	556.6	651.1	1032.9	2407.4	4557.5	6723.7	7284.4	6952.8	7017.1
72.5°	428.0	424.0	434.0	444.1	540.6	1077.1	2674.6	5174.4	6876.4	6751.9	6727.7
75°	371.8	369.7	373.8	363.7	375.8	474.2	1183.6	3225.2	5033.8	5618.5	5708.9
77.5°	307.5	309.5	311.5	301.4	297.4	313.5	476.2	1416.7	2477.7	2734.9	2949.9
80°	233.1	237.1	253.2	243.1	227.1	229.1	281.3	474.2	711.4	645.0	665.1
82.5°	158.7	160.8	194.9	182.9	170.8	154.7	180.9	245.2	277.3	211.0	184.9
85°	112.5	110.5	126.6	116.5	108.5	78.4	108.5	138.7	166.8	104.5	94.4
87.5°	26.1	26.1	52.2	42.2	40.2	32.2	42.2	54.3	72.3	46.2	42.2
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°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1945.2	1927.1	1927.1	1923.1	1907.0	1903.0	1888.9	1892.9	1882.9	1872.8
5°	2013.5	1989.4	1989.4	1955.2	1923.1	1919.1	1903.0	1903.0	1886.9	1890.9
7.5°	2107.9	2085.8	2049.7	2019.5	1975.3	1957.2	1927.1	1923.1	1919.1	1911.0
10°	2220.5	2192.3	2156.2	2093.9	2057.7	2023.5	1993.4	1951.2	1941.2	1943.2
12.5°	2373.2	2329.0	2250.6	2196.4	2150.1	2105.9	2061.7	1999.4	1985.4	1991.4
15°	2481.7	2425.4	2347.1	2327.0	2264.7	2210.4	2138.1	2067.8	2043.6	2037.6
17.5°	2570.1	2523.9	2477.7	2447.5	2397.3	2331.0	2230.5	2150.1	2095.9	2089.9
20°	2642.5	2582.2	2572.1	2590.2	2527.9	2483.7	2361.1	2262.7	2190.3	2160.2
22.5°	2686.7	2648.5	2676.6	2692.7	2688.7	2614.3	2487.7	2373.2	2282.8	2254.6
25°	2734.9	2690.7	2791.2	2845.4	2859.5	2736.9	2638.5	2487.7	2399.3	2381.2
27.5°	2759.0	2775.1	2891.6	3006.2	2996.1	2901.7	2769.1	2634.4	2564.1	2531.9
30°	2829.4	2855.5	3032.3	3160.9	3162.9	3070.5	2970.0	2817.3	2738.9	2724.9
32.5°	2955.9	2988.1	3177.0	3313.6	3337.8	3267.4	3166.9	3072.5	2992.1	2960.0
35°	3052.4	3134.8	3347.8	3472.4	3536.7	3494.5	3438.2	3339.8	3255.4	3227.2
37.5°	3191.1	3305.6	3510.6	3679.4	3751.7	3747.7	3705.5	3599.0	3528.7	3504.5
40°	3390.0	3504.5	3691.4	3914.5	4049.1	4043.1	4019.0	3936.6	3832.1	3820.0
42.5°	3601.0	3695.4	3938.6	4193.8	4386.7	4366.6	4302.3	4205.8	4133.5	4117.4
45°	3806.0	3952.7	4177.7	4505.3	4649.9	4700.2	4623.8	4459.0	4376.7	4366.6
47.5°	4063.2	4179.7	4461.1	4754.4	4969.5	4977.5	4846.9	4694.2	4543.4	4575.6
50°	4292.3	4447.0	4732.3	5053.8	5311.1	5218.6	5051.8	4860.9	4752.4	4710.2
52.5°	4537.4	4726.3	5057.9	5385.4	5528.1	5435.7	5164.4	4951.4	4786.6	4768.5
55°	4895.1	4993.6	5427.6	5678.8	5725.0	5530.1	5130.2	4828.8	4615.8	4563.5
57.5°	5258.8	5373.4	5753.1	5970.2	5921.9	5477.8	4909.2	4443.0	4163.6	4089.3
60°	5626.6	5767.2	6086.7	6285.7	6036.5	5118.2	4284.2	3683.4	3357.8	3291.5
62.5°	6036.5	6219.3	6504.7	6575.0	5696.9	4406.8	3400.0	2658.5	2329.0	2218.5
65°	6400.2	6587.1	6938.7	6514.7	4975.5	3287.5	2198.4	1519.2	1276.0	1187.6
67.5°	6699.6	6910.6	7083.4	5765.2	3643.2	1925.1	1145.4	799.8	709.3	677.2
70°	6936.7	7288.4	6480.6	4238.0	2081.8	938.4	618.9	526.5	514.4	506.4
72.5°	6729.8	6683.5	4838.8	2445.5	912.3	516.4	448.1	434.0	432.0	434.0
75°	5504.0	4909.2	2893.7	1063.0	458.2	373.8	371.8	365.7	375.8	375.8
77.5°	2670.6	2335.0	1209.7	456.2	301.4	293.4	303.4	303.4	303.4	303.4
80°	618.9	685.2	432.0	277.3	219.0	219.0	241.1	243.1	233.1	229.1
82.5°	211.0	281.3	237.1	174.8	144.7	162.8	182.9	186.9	154.7	156.7
85°	104.5	164.8	128.6	100.5	74.4	100.5	118.6	124.6	106.5	102.5
87.5°	48.2	72.3	48.2	34.2	26.1	36.2	34.2	28.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)