

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: P481236

Luminaire Tested: **IFLD-S-SA2E-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481236
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

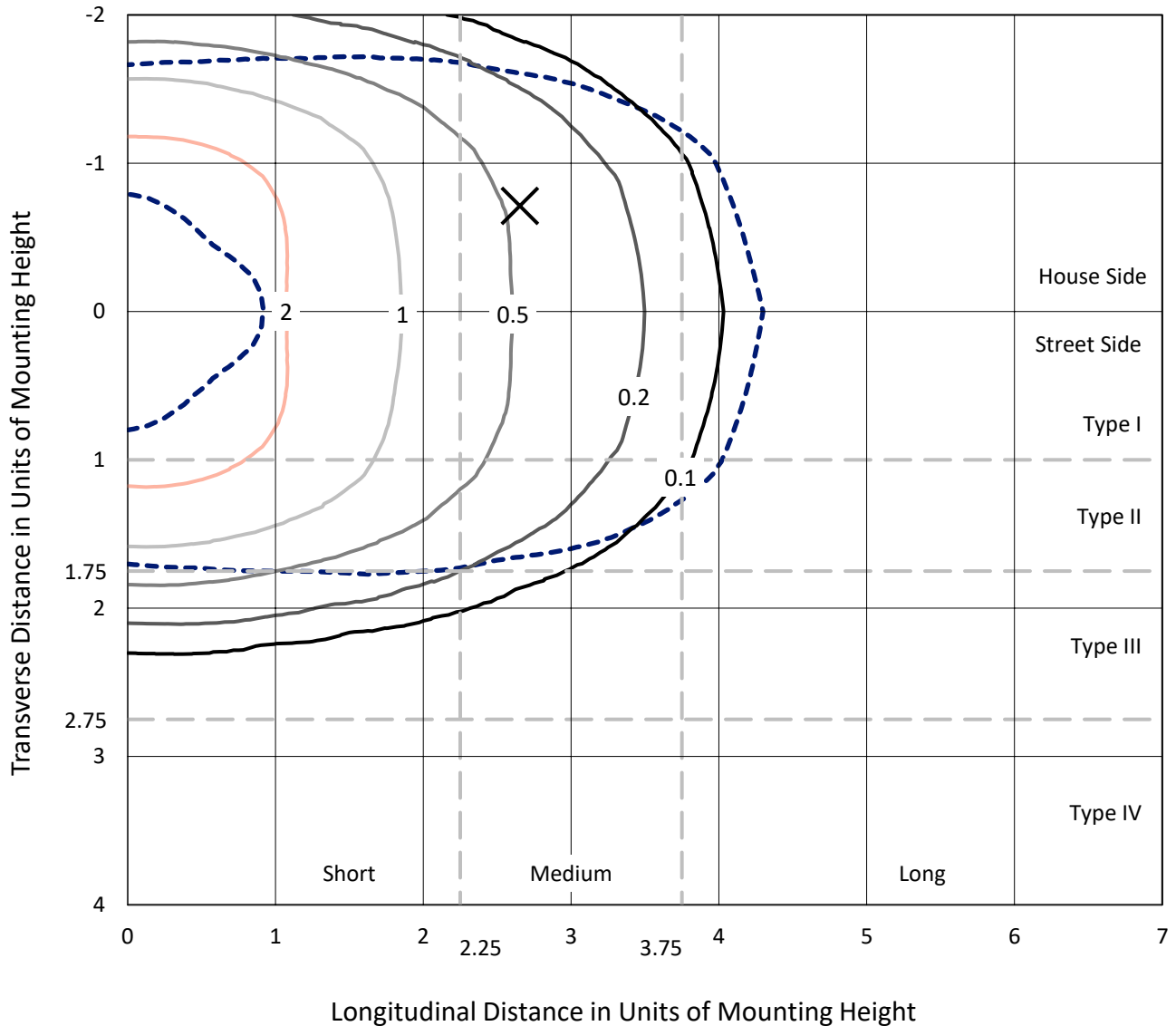
Lumens per Lamp: N/A
Luminaire Lumens: 18387.4 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

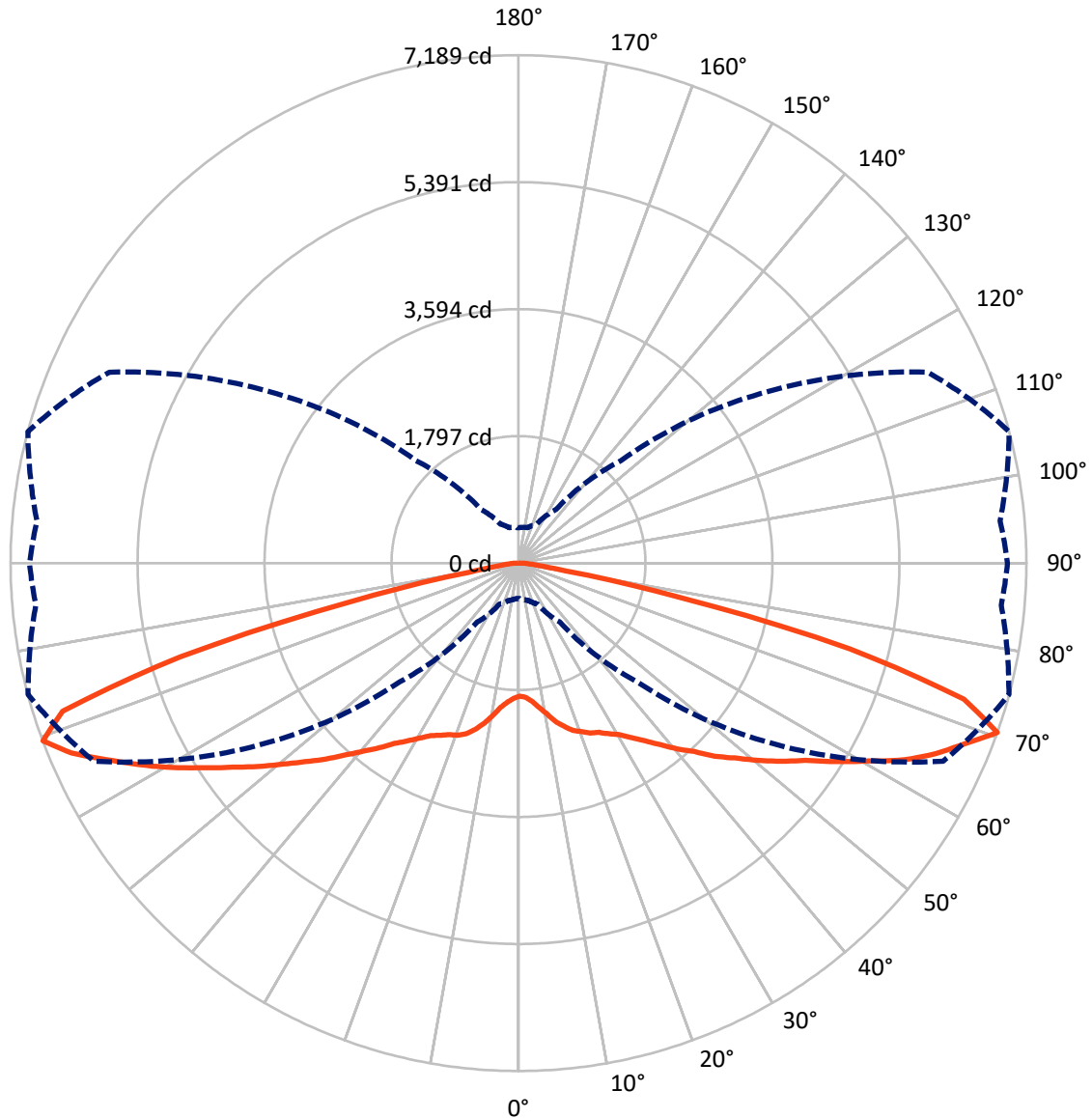
× Max cd
 - - - 1/2 Max cd



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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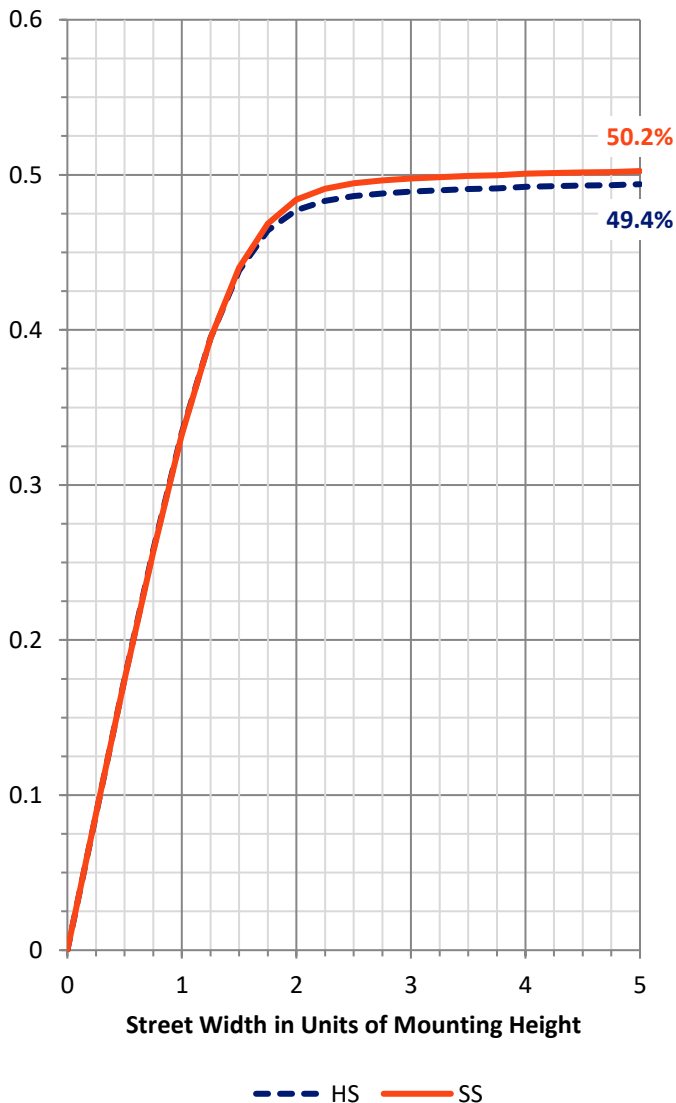
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9128.3	0.0	9128.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9259.1	0.0	9259.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	18387.4	0.0	18387.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	1.0
10°-20°	638.1	3.5
20°-30°	1235.6	6.7
30°-40°	2089.9	11.4
40°-50°	3334.0	18.1
50°-60°	4563.5	24.8
60°-70°	4301.4	23.4
70°-80°	1894.9	10.3
80°-90°	142.6	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°	18387.4	100.0
0°-180°	18387.4	100.0



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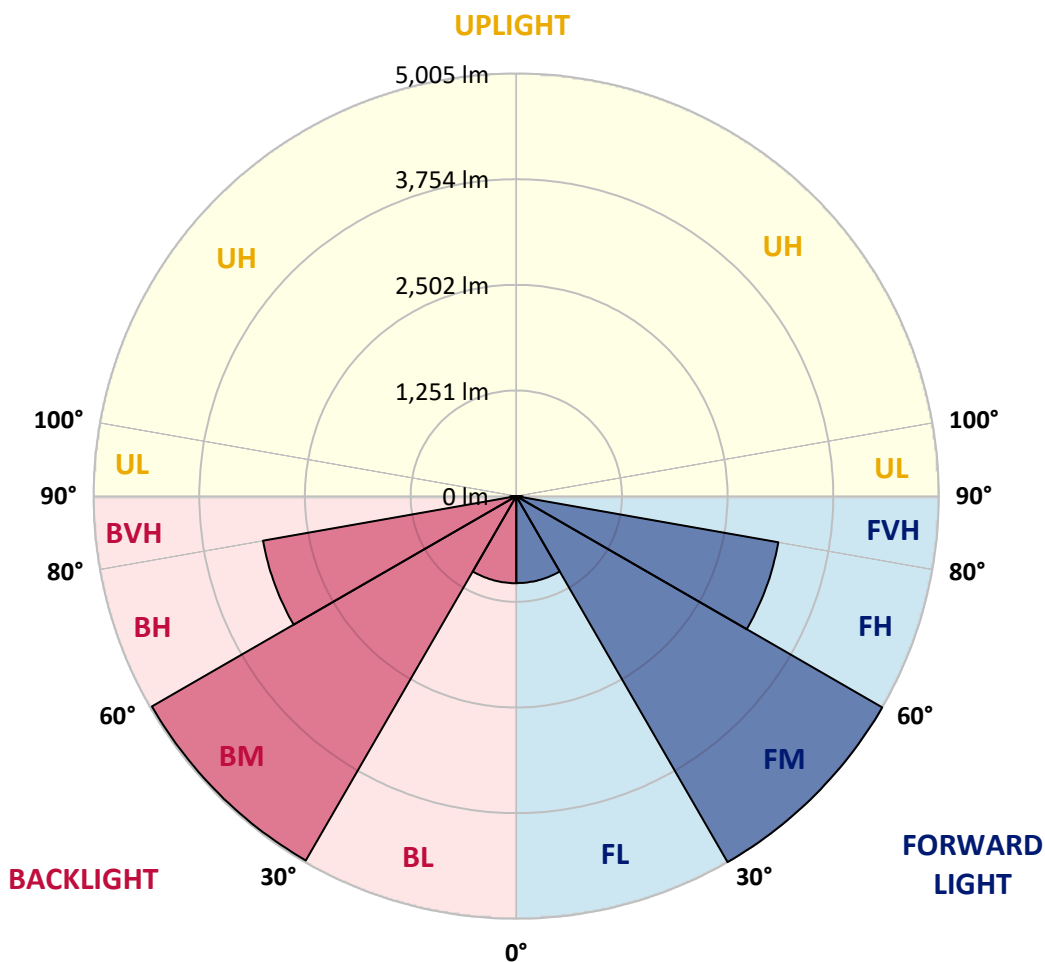
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.0	5.6			
FM (30°-60°)	5004.9	27.2			
FH (60°-80°)	3151.4	17.1			G2/5000
FVH (80°-90°)	72.8	0.4			G1/100
BL (0°-30°)	1031.1	5.6	B3/2500		
BM (30°-60°)	4982.5	27.1	B3/5000		
BH (60°-80°)	3044.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	69.7	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°	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9
2.5°	1871.0	1871.0	1869.0	1878.9	1888.8	1892.8	1900.7	1902.7	1914.6	1904.7	1924.5
5°	1865.0	1863.0	1878.9	1902.7	1902.7	1928.4	1944.3	1966.1	1972.0	1983.9	1987.9
7.5°	1906.6	1902.7	1894.7	1920.5	1942.3	1982.0	2003.8	2041.4	2055.3	2071.1	2089.0
10°	1932.4	1932.4	1924.5	1970.1	1989.9	2043.4	2091.0	2128.6	2182.1	2200.0	2201.9
12.5°	1936.4	1942.3	1966.1	2025.6	2081.1	2150.4	2186.1	2257.4	2311.0	2344.7	2356.5
15°	1995.8	1983.9	2009.7	2091.0	2172.2	2233.7	2297.1	2348.6	2425.9	2469.5	2497.3
17.5°	2049.3	2037.4	2085.0	2182.1	2265.4	2360.5	2416.0	2471.5	2527.0	2566.6	2568.6
20°	2134.6	2144.5	2186.1	2291.1	2400.1	2483.4	2546.8	2556.7	2584.5	2641.9	2632.0
22.5°	2239.6	2231.7	2318.9	2433.8	2552.8	2622.1	2657.8	2632.0	2618.2	2679.6	2693.5
25°	2344.7	2368.4	2447.7	2554.7	2697.4	2790.6	2800.5	2729.1	2677.6	2699.4	2693.5
27.5°	2505.2	2509.2	2592.4	2719.2	2863.9	2945.2	2939.2	2838.2	2739.1	2741.0	2745.0
30°	2711.3	2691.5	2782.7	2897.6	3040.3	3113.6	3123.6	2978.9	2846.1	2806.4	2816.4
32.5°	2909.5	2933.3	3012.6	3143.4	3248.4	3290.0	3268.2	3139.4	2967.0	2913.5	2919.4
35°	3163.2	3159.2	3268.2	3379.2	3458.5	3466.4	3448.6	3260.3	3097.8	3028.4	3000.7
37.5°	3434.7	3470.4	3541.7	3632.9	3716.2	3720.1	3623.0	3472.4	3272.2	3157.3	3190.9
40°	3738.0	3777.6	3829.1	3961.9	4023.4	3959.9	3860.8	3656.7	3448.6	3347.5	3363.4
42.5°	4005.5	4023.4	4128.4	4285.0	4314.7	4287.0	4140.3	3892.6	3650.8	3539.8	3547.7
45°	4251.3	4275.1	4411.8	4552.5	4621.9	4574.3	4403.9	4168.0	3886.6	3791.5	3753.8
47.5°	4477.2	4524.8	4657.6	4802.3	4909.3	4913.3	4703.2	4417.8	4120.5	3995.6	3993.6
50°	4629.8	4699.2	4830.0	4994.5	5151.1	5212.5	5002.4	4695.2	4376.2	4243.4	4229.5
52.5°	4713.1	4784.4	4915.2	5170.9	5345.3	5440.5	5341.4	4954.9	4675.4	4536.7	4514.9
55°	4612.0	4659.6	4873.6	5232.4	5501.9	5658.5	5593.1	5313.6	4972.7	4859.7	4879.6
57.5°	4181.9	4281.0	4544.6	4992.5	5497.9	5882.4	5876.5	5652.5	5315.6	5208.6	5212.5
60°	3442.7	3525.9	3850.9	4477.2	5276.0	5973.6	6183.7	5981.5	5700.1	5575.2	5571.3
62.5°	2429.9	2534.9	2911.5	3595.3	4621.9	5846.8	6536.5	6395.8	6076.7	5985.5	6019.2
65°	1359.6	1423.0	1771.9	2390.2	3521.9	5149.1	6599.9	6825.8	6459.2	6320.4	6326.4
67.5°	727.4	751.2	913.7	1254.6	2154.4	3969.9	5959.7	7073.6	6873.4	6633.6	6595.9
70°	499.5	507.4	549.0	642.2	1018.7	2374.4	4495.1	6631.6	7184.6	6857.6	6921.0
72.5°	422.2	418.2	428.1	438.0	533.1	1062.3	2638.0	5103.5	6782.2	6659.4	6635.6
75°	366.7	364.7	368.6	358.7	370.6	467.7	1167.4	3181.0	4964.8	5541.5	5630.7
77.5°	303.2	305.2	307.2	297.3	293.3	309.2	469.7	1397.3	2443.7	2697.4	2909.5
80°	229.9	233.9	249.7	239.8	224.0	225.9	277.5	467.7	701.6	636.2	656.0
82.5°	156.6	158.6	192.2	180.4	168.5	152.6	178.4	241.8	273.5	208.1	182.3
85°	111.0	109.0	124.9	115.0	107.0	77.3	107.0	136.8	164.5	103.1	93.2
87.5°	25.8	25.8	51.5	41.6	39.6	31.7	41.6	53.5	71.4	45.6	41.6
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°	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9
2.5°	1918.5	1900.7	1900.7	1896.7	1880.9	1876.9	1863.0	1867.0	1857.1	1847.2
5°	1985.9	1962.1	1962.1	1928.4	1896.7	1892.8	1876.9	1876.9	1861.1	1865.0
7.5°	2079.1	2057.3	2021.6	1991.9	1948.3	1930.4	1900.7	1896.7	1892.8	1884.8
10°	2190.1	2162.3	2126.6	2065.2	2029.5	1995.8	1966.1	1924.5	1914.6	1916.5
12.5°	2340.7	2297.1	2219.8	2166.3	2120.7	2077.1	2033.5	1972.0	1958.2	1964.1
15°	2447.7	2392.2	2314.9	2295.1	2233.7	2180.1	2108.8	2039.4	2015.6	2009.7
17.5°	2534.9	2489.3	2443.7	2414.0	2364.5	2299.1	2200.0	2120.7	2067.2	2061.2
20°	2606.3	2546.8	2536.9	2554.7	2493.3	2449.7	2328.8	2231.7	2160.3	2130.6
22.5°	2649.9	2612.2	2640.0	2655.8	2651.9	2578.5	2453.7	2340.7	2251.5	2223.8
25°	2697.4	2653.8	2752.9	2806.4	2820.3	2699.4	2602.3	2453.7	2366.5	2348.6
27.5°	2721.2	2737.1	2852.0	2965.0	2955.1	2861.9	2731.1	2598.3	2529.0	2497.3
30°	2790.6	2816.4	2990.8	3117.6	3119.6	3028.4	2929.3	2778.7	2701.4	2687.5
32.5°	2915.5	2947.2	3133.5	3268.2	3292.0	3222.7	3123.6	3030.4	2951.1	2919.4
35°	3010.6	3091.8	3301.9	3424.8	3488.2	3446.6	3391.1	3294.0	3210.8	3183.0
37.5°	3147.3	3260.3	3462.5	3629.0	3700.3	3696.3	3654.7	3549.7	3480.3	3456.5
40°	3343.6	3456.5	3640.8	3860.8	3993.6	3987.7	3963.9	3882.6	3779.6	3767.7
42.5°	3551.7	3644.8	3884.6	4136.3	4326.6	4306.8	4243.4	4148.2	4076.9	4061.0
45°	3753.8	3898.5	4120.5	4443.5	4586.2	4635.8	4560.5	4398.0	4316.7	4306.8
47.5°	4007.5	4122.5	4399.9	4689.3	4901.4	4909.3	4780.5	4629.8	4481.2	4512.9
50°	4233.5	4386.1	4667.5	4984.6	5238.3	5147.1	4982.6	4794.3	4687.3	4645.7
52.5°	4475.2	4661.6	4988.6	5311.6	5452.4	5361.2	5093.6	4883.5	4721.0	4703.2
55°	4828.0	4925.2	5353.3	5601.0	5646.6	5454.3	5059.9	4762.6	4552.5	4501.0
57.5°	5186.8	5299.7	5674.3	5888.4	5840.8	5402.8	4841.9	4382.1	4106.6	4033.3
60°	5549.5	5688.2	6003.3	6199.5	5953.8	5048.0	4225.5	3632.9	3311.8	3246.4
62.5°	5953.8	6134.1	6415.6	6484.9	5618.8	4346.4	3353.5	2622.1	2297.1	2188.1
65°	6312.5	6496.8	6843.7	6425.5	4907.3	3242.5	2168.3	1498.4	1258.5	1171.3
67.5°	6607.8	6815.9	6986.4	5686.2	3593.3	1898.7	1129.7	788.8	699.6	667.9
70°	6841.7	7188.5	6391.8	4179.9	2053.3	925.6	610.4	519.3	507.4	499.5
72.5°	6637.6	6592.0	4772.5	2412.0	899.8	509.4	442.0	428.1	426.1	428.1
75°	5428.6	4841.9	2854.0	1048.5	451.9	368.6	366.7	360.7	370.6	370.6
77.5°	2634.0	2303.0	1193.1	449.9	297.3	289.4	299.3	299.3	299.3	299.3
80°	610.4	675.8	426.1	273.5	216.0	216.0	237.8	239.8	229.9	225.9
82.5°	208.1	277.5	233.9	172.4	142.7	160.5	180.4	184.3	152.6	154.6
85°	103.1	162.5	126.8	99.1	73.3	99.1	116.9	122.9	105.0	101.1
87.5°	47.6	71.4	47.6	33.7	25.8	35.7	33.7	27.7	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)