

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: P478685

Luminaire Tested: **IFLD-M-SA4C-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478685
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

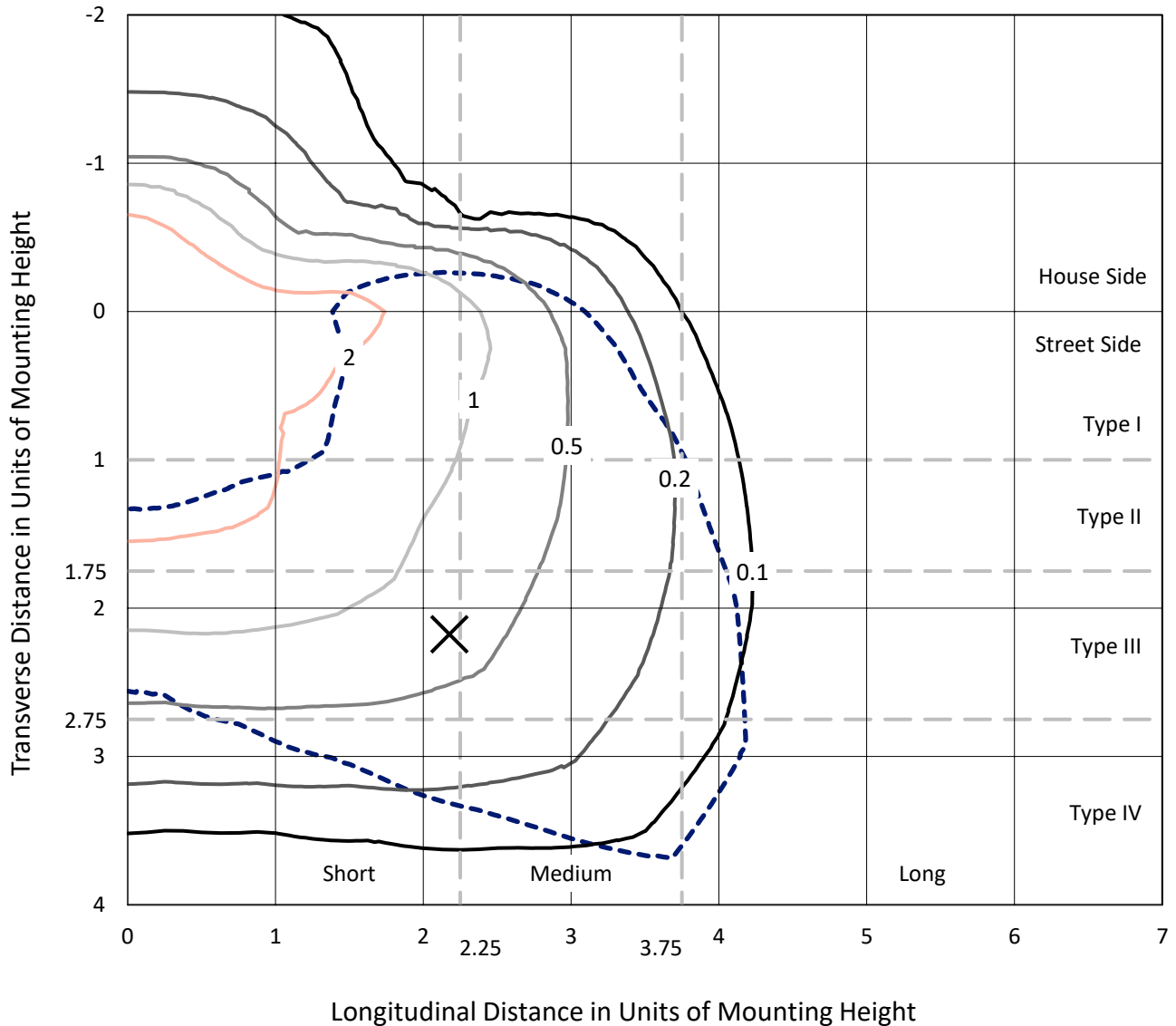
Lumens per Lamp: N/A
Luminaire Lumens: 21125.4 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

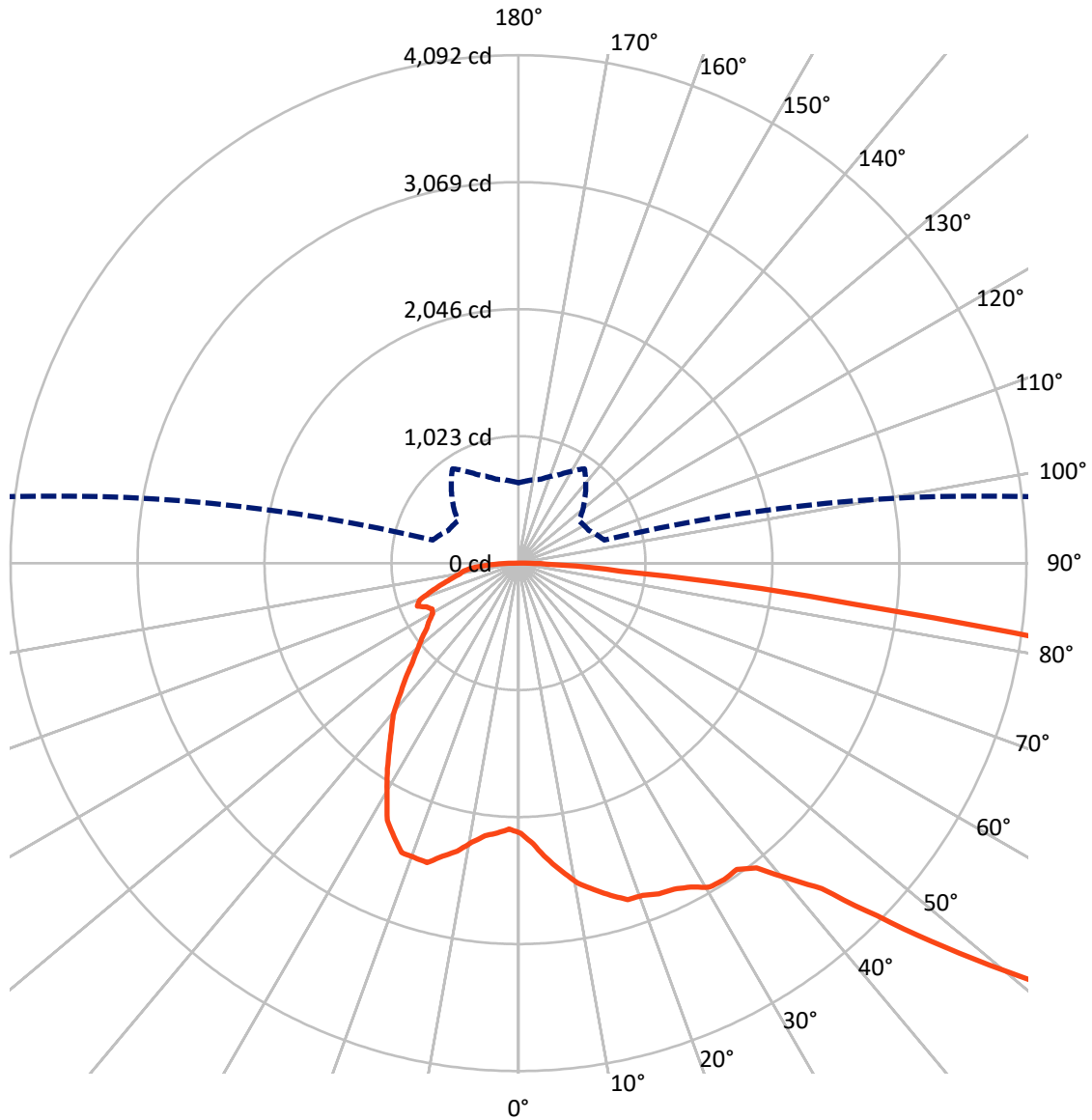
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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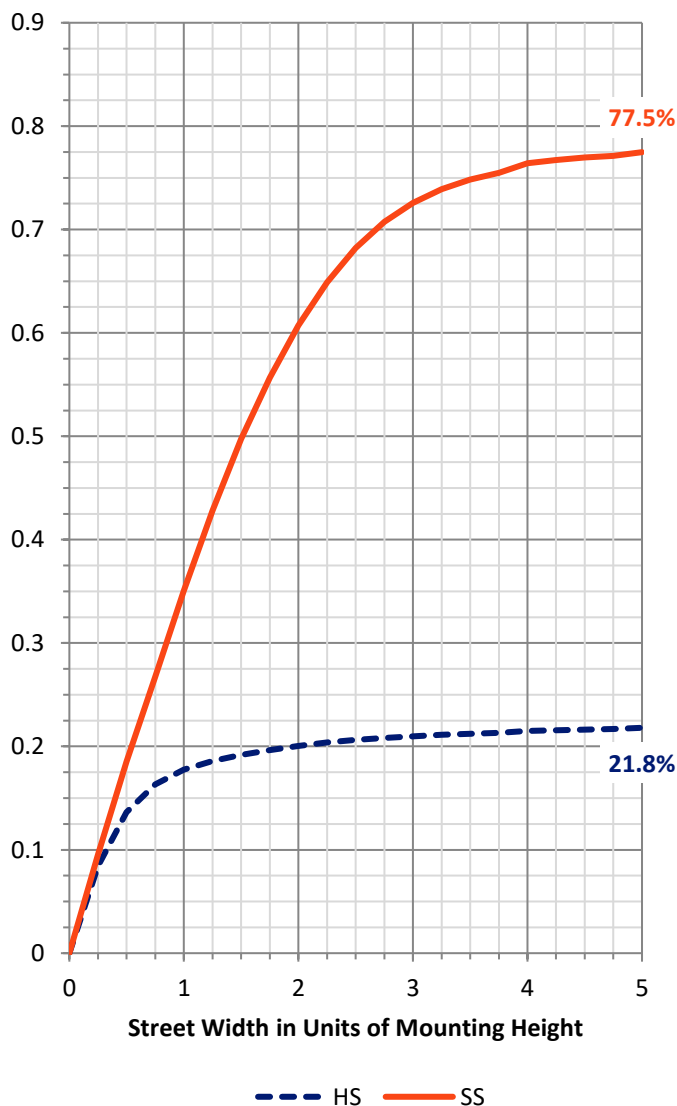
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4702.7	0.0	4702.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16422.8	0.0	16422.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	21125.4	0.0	21125.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	1.1
10°-20°	740.7	3.5
20°-30°	1250.8	5.9
30°-40°	1730.9	8.2
40°-50°	2475.8	11.7
50°-60°	3993.3	18.9
60°-70°	5889.5	27.9
70°-80°	4276.8	20.2
80°-90°	545.2	2.6
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°	21125.4	100.0
0°-180°	21125.4	100.0

Coefficient of Utilization



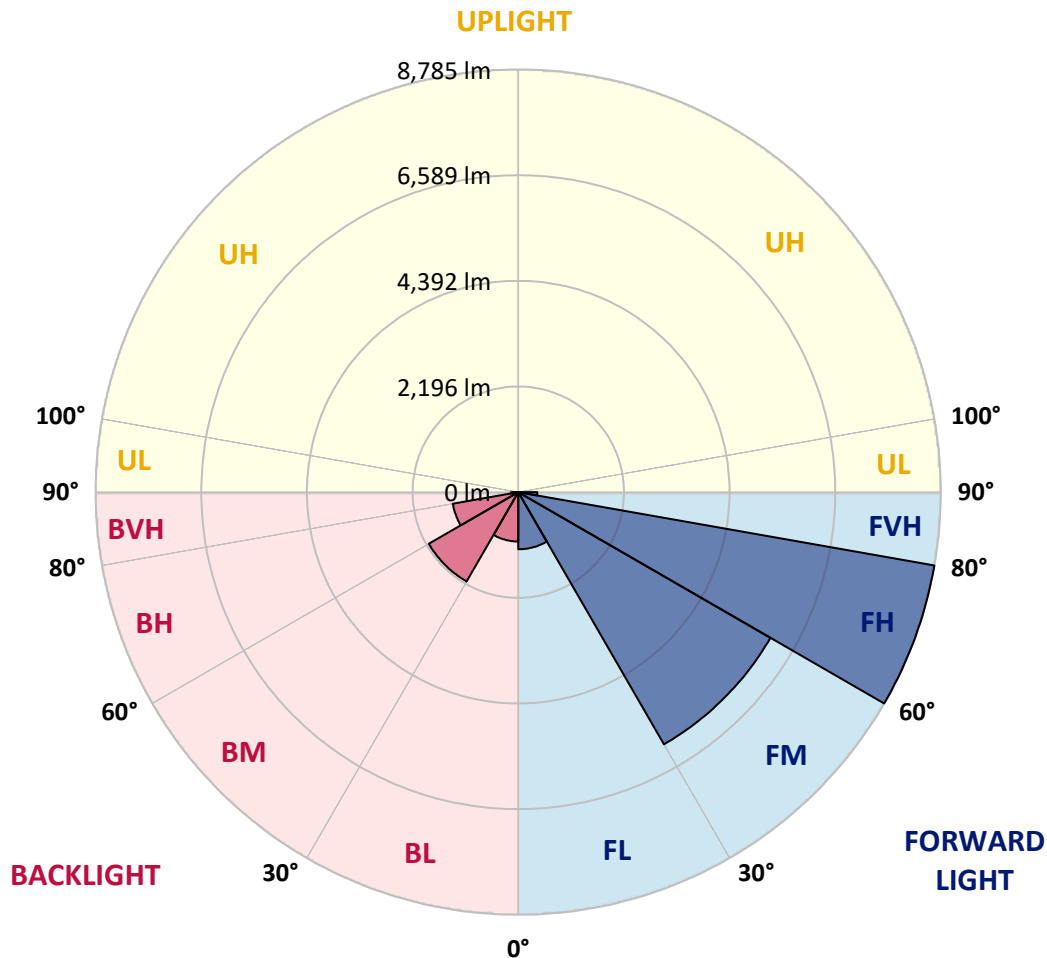
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1187.3	5.6			
FM (30°-60°)	6053.8	28.7			
FH (60°-80°)	8784.9	41.6			G4/12000
FVH (80°-90°)	396.8	1.9			G3/500
BL (0°-30°)	1026.8	4.9	B3/2500		
BM (30°-60°)	2146.1	10.2	B2/2500		
BH (60°-80°)	1381.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	148.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5
2.5°	2291.7	2305.4	2291.7	2289.4	2266.7	2250.7	2264.4	2243.9	2221.1	2212.0	2191.5
5°	2501.3	2503.6	2478.5	2480.8	2433.0	2382.8	2392.0	2330.4	2264.4	2239.3	2198.3
7.5°	2715.4	2690.4	2653.9	2642.5	2567.4	2512.7	2505.9	2451.2	2348.7	2291.7	2234.8
10°	2854.4	2863.5	2804.3	2754.2	2690.4	2624.3	2622.0	2519.5	2460.3	2376.0	2303.1
12.5°	2977.4	2979.7	2929.6	2849.8	2770.1	2688.1	2699.5	2653.9	2553.7	2474.0	2401.1
15°	3073.1	3059.4	3004.7	2931.8	2847.6	2783.8	2776.9	2738.2	2653.9	2587.9	2467.1
17.5°	3100.4	3093.6	3038.9	2961.5	2879.5	2831.6	2849.8	2786.1	2751.9	2692.7	2576.5
20°	3048.0	3032.1	3023.0	2936.4	2877.2	2872.6	2856.7	2870.3	2813.4	2758.7	2674.4
22.5°	2952.4	2945.5	2941.0	2872.6	2845.3	2865.8	2893.1	2913.6	2904.5	2852.1	2756.4
25°	2854.4	2886.3	2856.7	2824.8	2863.5	2915.9	2909.1	2975.1	2975.1	2959.2	2879.5
27.5°	2922.7	2902.2	2879.5	2863.5	2877.2	2959.2	2954.6	3034.4	3064.0	3034.4	2943.2
30°	3093.6	3073.1	3007.0	2936.4	2918.2	3007.0	3029.8	3100.4	3114.1	3041.2	2963.7
32.5°	3414.8	3403.4	3298.6	3091.3	2979.7	3029.8	3041.2	3120.9	3109.5	3064.0	3032.1
35°	3890.9	3852.2	3706.4	3355.6	3109.5	3059.4	3029.8	3093.6	3136.9	3114.1	3084.5
37.5°	4412.6	4369.3	4189.3	3745.1	3344.2	3139.2	3116.4	3168.8	3218.9	3207.5	3146.0
40°	4911.5	4911.5	4749.7	4232.6	3692.7	3332.8	3337.3	3278.1	3323.7	3303.2	3314.6
42.5°	5403.5	5385.3	5319.2	4804.4	4066.3	3656.3	3583.4	3435.3	3517.3	3510.5	3526.4
45°	5902.4	5888.8	5870.5	5337.5	4601.7	4093.7	4054.9	3788.4	3863.6	3831.7	3900.0
47.5°	6301.1	6317.0	6317.0	5932.0	5173.4	4676.8	4619.9	4198.4	4342.0	4357.9	4373.9
50°	6640.5	6647.3	6640.5	6499.3	5811.3	5344.3	5228.1	4799.8	4943.4	5068.7	5214.5
52.5°	7109.8	7118.9	7087.0	7032.3	6677.0	6045.9	5916.1	5440.0	5733.8	5866.0	6128.0
55°	7688.4	7620.1	7560.8	7601.8	7508.4	6818.2	6683.8	6100.6	6542.6	6718.0	7241.9
57.5°	7795.5	7854.7	8005.1	8330.8	8465.2	7570.0	7492.5	6911.6	7456.1	7608.7	8483.5
60°	8173.6	8075.7	8444.7	9150.9	9301.3	8549.5	8469.8	7800.0	8365.0	8524.5	9629.3
62.5°	8421.9	8417.4	8964.1	9802.4	10144.2	9565.5	9403.8	8955.0	9346.8	9501.7	10877.7
65°	8349.0	8415.1	9385.6	10185.2	10848.1	10720.5	10627.1	9948.2	10465.4	10451.7	11690.9
67.5°	7683.9	7870.7	9119.0	10460.8	11896.0	12128.3	12098.7	11344.7	11374.3	11085.0	12053.2
70°	6761.2	6697.5	7991.4	10173.8	12419.9	13798.1	13791.3	12383.5	12192.1	11223.9	11014.4
72°	5194.0	5123.3	6187.2	8736.3	12144.3	14465.6	14670.6	13103.3	12183.0	10647.6	9098.5
72.5°	4715.6	4654.1	5713.3	8223.8	11839.0	14638.7	14543.1	13130.7	12087.3	10376.5	8499.4
75°	2171.0	2100.4	2854.4	5034.5	9235.2	12971.2	13297.0	12287.8	10556.5	8260.2	5091.4
77.5°	647.0	626.5	918.1	2032.0	5367.1	9556.4	9681.7	9271.7	7369.5	4524.2	1888.5
80°	359.9	362.2	473.8	760.9	2360.1	5524.3	5975.3	5727.0	3615.3	1494.4	628.7
82.5°	200.5	211.9	296.1	451.1	1084.4	2535.5	2729.1	2631.1	1307.6	701.6	344.0
85°	104.8	109.3	154.9	241.5	615.1	801.9	824.7	883.9	678.9	478.4	184.5
87.5°	41.0	41.0	57.0	100.2	227.8	248.3	223.2	271.1	389.5	309.8	91.1
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°	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5
2.5°	2209.7	2191.5	2189.2	2159.6	2168.7	2143.6	2145.9	2141.4	2143.6	2139.1	2127.7
5°	2198.3	2184.6	2145.9	2171.0	2148.2	2180.1	2205.2	2196.0	2202.9	2200.6	2202.9
7.5°	2214.3	2196.0	2191.5	2177.8	2198.3	2212.0	2232.5	2289.4	2284.9	2291.7	2305.4
10°	2262.1	2241.6	2227.9	2248.4	2237.0	2280.3	2303.1	2332.7	2385.1	2387.4	2360.1
12.5°	2355.5	2341.8	2314.5	2319.1	2357.8	2371.4	2385.1	2403.3	2437.5	2430.7	2455.7
15°	2462.6	2433.0	2417.0	2412.5	2421.6	2437.5	2435.2	2453.5	2471.7	2487.6	2480.8
17.5°	2540.0	2501.3	2505.9	2528.6	2526.4	2521.8	2492.2	2483.1	2492.2	2501.3	2496.7
20°	2619.8	2624.3	2590.1	2569.6	2560.5	2515.0	2492.2	2464.8	2437.5	2451.2	2471.7
22.5°	2720.0	2699.5	2649.4	2587.9	2542.3	2515.0	2444.3	2396.5	2396.5	2410.2	2403.3
25°	2833.9	2790.6	2704.0	2592.4	2535.5	2419.3	2369.2	2362.3	2344.1	2364.6	2373.7
27.5°	2922.7	2884.0	2765.6	2576.5	2419.3	2325.9	2296.3	2287.2	2316.8	2319.1	2355.5
30°	2959.2	2947.8	2774.7	2535.5	2300.8	2150.5	2132.3	2173.3	2205.2	2253.0	2255.3
32.5°	3007.0	3011.6	2788.3	2439.8	2145.9	1995.6	1968.2	2018.4	2109.5	2148.2	2177.8
35°	3086.8	3109.5	2776.9	2321.3	1981.9	1838.4	1833.8	1847.5	1936.3	2004.7	2043.4
37.5°	3225.7	3221.2	2774.7	2180.1	1852.1	1701.7	1665.3	1669.8	1729.0	1786.0	1779.2
40°	3412.5	3394.3	2767.8	1995.6	1683.5	1585.5	1524.0	1501.2	1496.7	1480.7	1485.3
42.5°	3667.7	3631.2	2765.6	1808.8	1530.8	1426.1	1382.8	1323.5	1280.3	1198.3	1202.8
45°	4023.0	3959.2	2706.3	1633.4	1380.5	1293.9	1227.9	1184.6	1091.2	988.7	988.7
47.5°	4572.0	4364.7	2708.6	1439.7	1234.7	1164.1	1118.5	1043.3	943.1	861.1	852.0
50°	5380.8	4906.9	2631.1	1287.1	1116.2	1068.4	1020.6	934.0	838.3	781.4	788.2
52.5°	6424.1	5715.6	2628.9	1150.4	1022.8	988.7	936.3	858.8	788.2	751.8	738.1
55°	7667.9	6786.3	2710.9	1038.8	927.2	908.9	886.2	822.4	754.0	722.1	719.9
57.5°	8941.3	7831.9	2843.0	959.1	845.2	858.8	842.9	792.8	738.1	701.6	697.1
60°	10073.5	8661.1	2576.5	863.4	772.3	801.9	824.7	781.4	751.8	749.5	733.5
62.5°	10927.8	9016.5	1959.1	790.5	733.5	788.2	849.7	877.0	863.4	881.6	883.9
65°	11239.9	8802.4	1348.6	751.8	703.9	820.1	956.8	947.7	867.9	833.8	852.0
67.5°	10802.5	7934.4	1000.1	706.2	683.4	886.2	1018.3	904.4	783.6	779.1	765.4
70°	9289.9	6724.8	815.5	658.4	649.2	849.7	991.0	838.3	738.1	708.5	694.8
72°	7401.4	5237.2	715.3	624.2	594.6	758.6	927.2	785.9	699.4	662.9	647.0
72.5°	6756.7	4854.5	701.6	608.2	583.2	738.1	895.3	770.0	690.2	658.4	633.3
75°	3706.4	2485.4	617.4	558.1	492.1	637.9	829.2	722.1	651.5	606.0	601.4
77.5°	1378.2	963.6	533.1	494.3	426.0	551.3	754.0	685.7	592.3	535.3	524.0
80°	528.5	508.0	435.1	416.9	357.7	482.9	694.8	615.1	503.4	446.5	428.3
82.5°	321.2	296.1	330.3	325.8	273.4	439.7	653.8	576.3	446.5	362.2	350.8
85°	175.4	175.4	230.1	221.0	191.4	350.8	494.3	382.7	282.5	232.4	236.9
87.5°	77.5	91.1	123.0	116.2	104.8	198.2	241.5	202.7	141.2	95.7	102.5
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)