

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: P478412

Luminaire Tested: **IFLD-M-SA4C-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478412
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

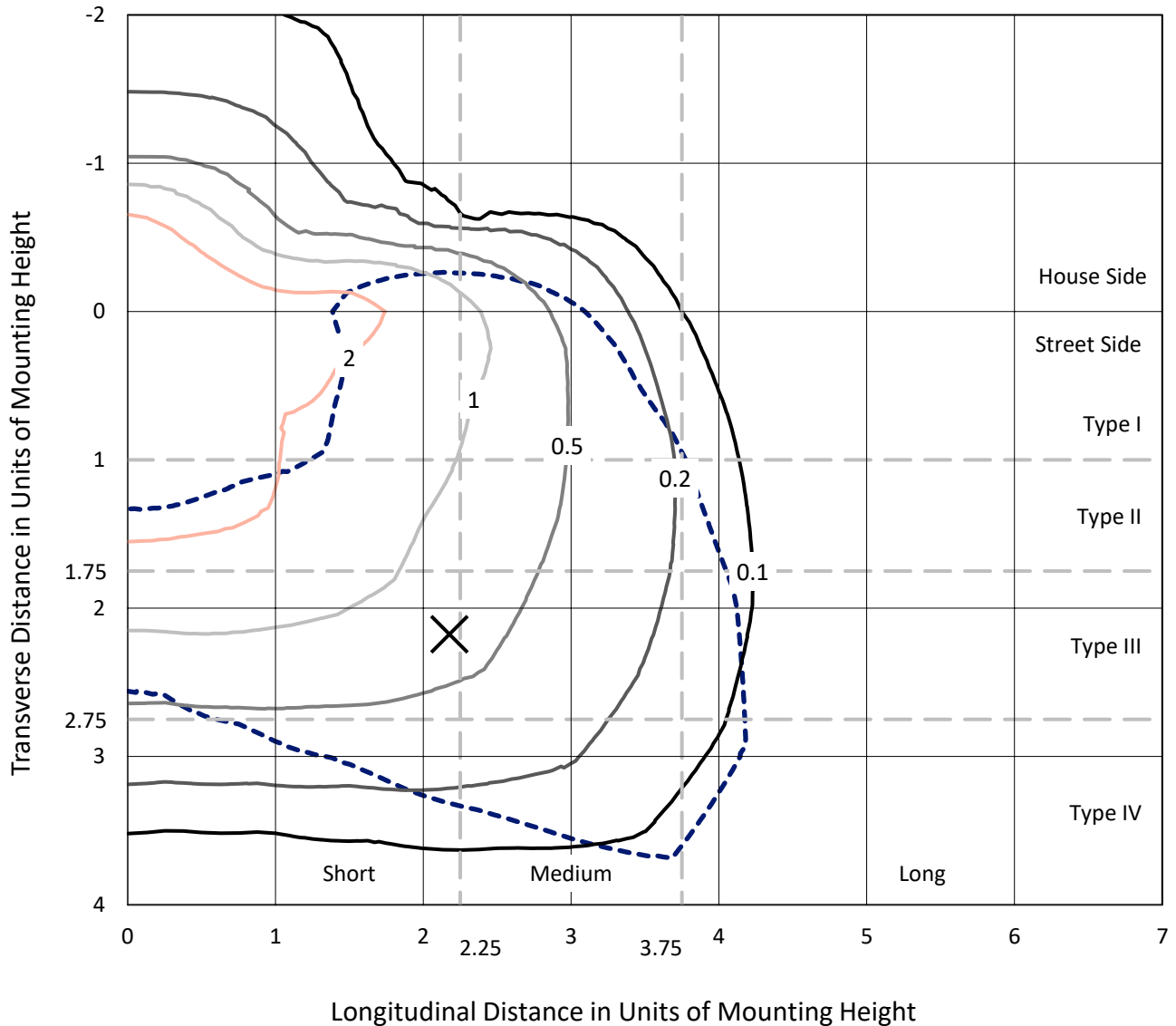
Lumens per Lamp: N/A
Luminaire Lumens: 21168.5 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

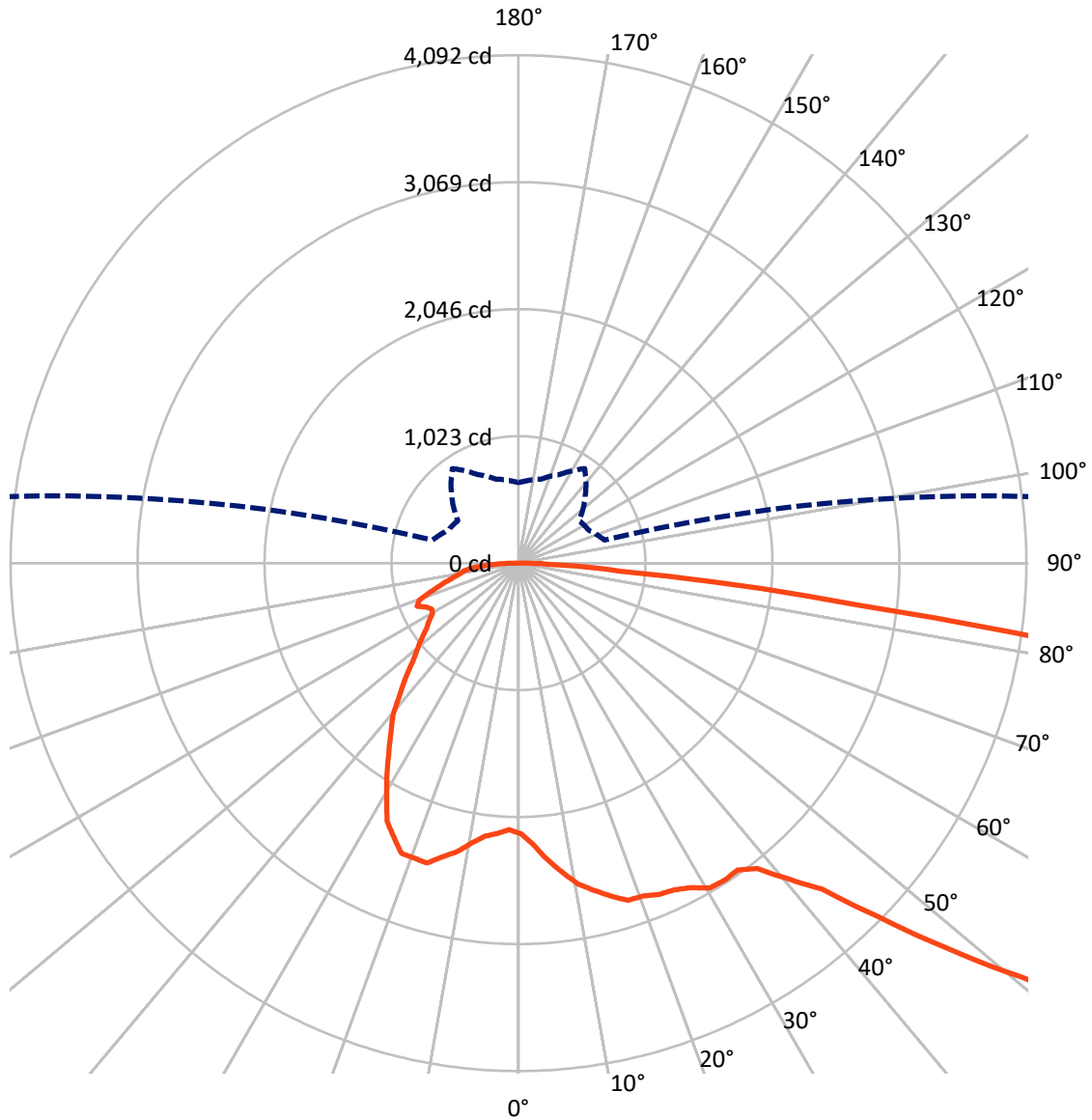
× Max cd
 - - - 1/2 Max cd



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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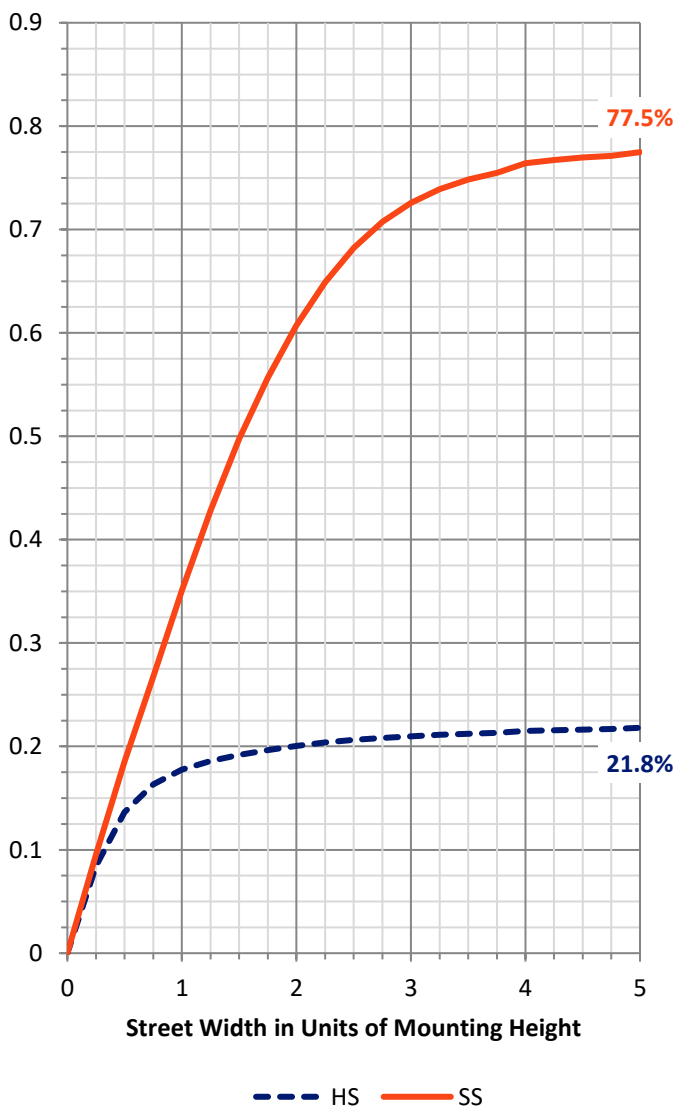
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4712.2	0.0	4712.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16456.3	0.0	16456.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	21168.5	0.0	21168.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	1.1
10°-20°	742.2	3.5
20°-30°	1253.3	5.9
30°-40°	1734.4	8.2
40°-50°	2480.9	11.7
50°-60°	4001.4	18.9
60°-70°	5901.5	27.9
70°-80°	4285.5	20.2
80°-90°	546.3	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°	21168.5	100.0
0°-180°	21168.5	100.0

Coefficient of Utilization



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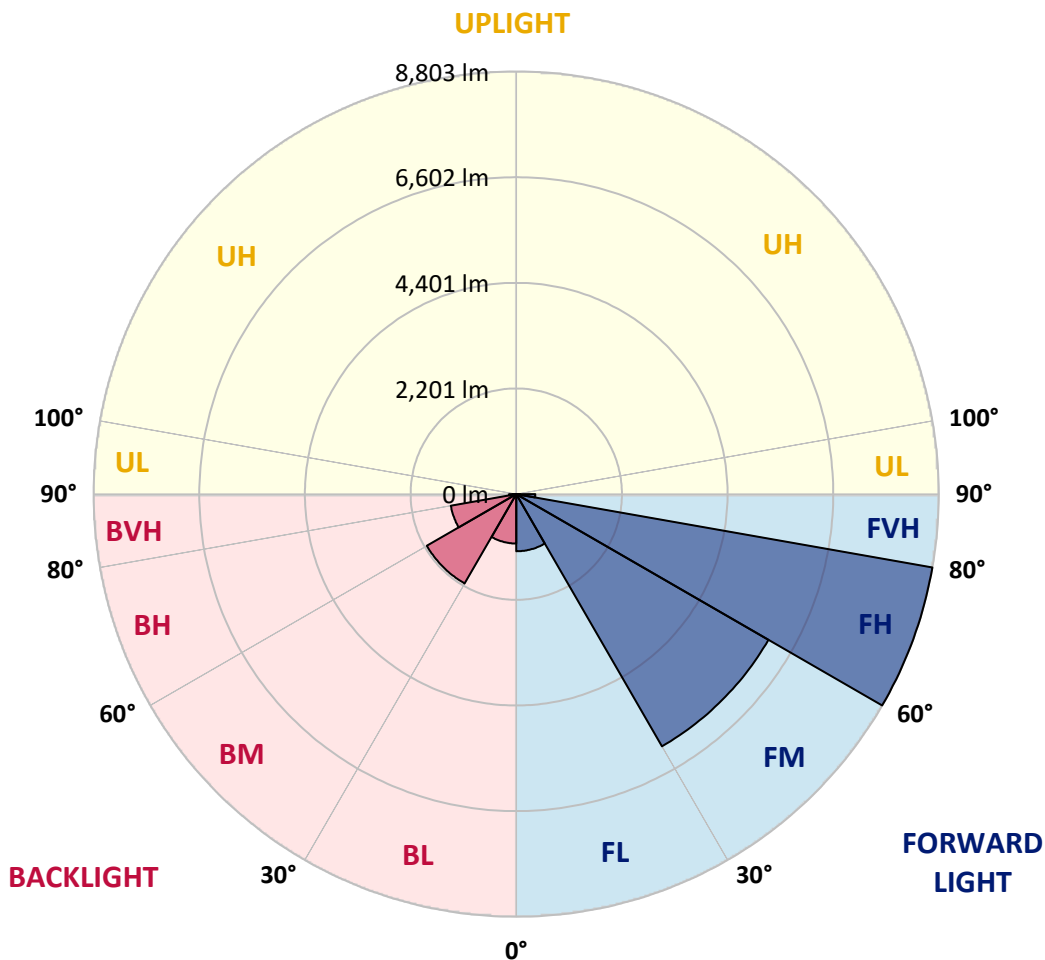
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1189.7	5.6			
FM (30°-60°)	6066.2	28.7			
FH (60°-80°)	8802.8	41.6			G4/12000
FVH (80°-90°)	397.6	1.9			G3/500
BL (0°-30°)	1028.9	4.9	B3/2500		
BM (30°-60°)	2150.5	10.2	B2/2500		
BH (60°-80°)	1384.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	148.7	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°	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0
2.5°	2296.4	2310.1	2296.4	2294.1	2271.3	2255.3	2269.0	2248.5	2225.6	2216.5	2196.0
5°	2506.4	2508.7	2483.6	2485.9	2437.9	2387.7	2396.8	2335.2	2269.0	2243.9	2202.8
7.5°	2721.0	2695.9	2659.3	2647.9	2572.6	2517.8	2511.0	2456.2	2353.5	2296.4	2239.3
10°	2860.2	2869.4	2810.0	2759.8	2695.9	2629.7	2627.4	2524.7	2465.3	2380.9	2307.8
12.5°	2983.5	2985.8	2935.5	2855.7	2775.8	2693.6	2705.0	2659.3	2558.9	2479.0	2406.0
15°	3079.4	3065.7	3010.9	2937.8	2853.4	2789.5	2782.6	2743.8	2659.3	2593.1	2472.2
17.5°	3106.8	3099.9	3045.1	2967.5	2885.3	2837.4	2855.7	2791.7	2757.5	2698.1	2581.7
20°	3054.2	3038.3	3029.1	2942.4	2883.0	2878.5	2862.5	2876.2	2819.1	2764.3	2679.9
22.5°	2958.4	2951.5	2947.0	2878.5	2851.1	2871.6	2899.0	2919.6	2910.4	2857.9	2762.1
25°	2860.2	2892.2	2862.5	2830.5	2869.4	2921.9	2915.0	2981.2	2981.2	2965.2	2885.3
27.5°	2928.7	2908.2	2885.3	2869.4	2883.0	2965.2	2960.7	3040.6	3070.2	3040.6	2949.2
30°	3099.9	3079.4	3013.2	2942.4	2924.1	3013.2	3036.0	3106.8	3120.4	3047.4	2969.8
32.5°	3421.8	3410.3	3305.3	3097.6	2985.8	3036.0	3047.4	3127.3	3115.9	3070.2	3038.3
35°	3898.8	3860.0	3713.9	3362.4	3115.9	3065.7	3036.0	3099.9	3143.3	3120.4	3090.8
37.5°	4421.6	4378.2	4197.9	3752.8	3351.0	3145.6	3122.7	3175.2	3225.5	3214.0	3152.4
40°	4921.5	4921.5	4759.4	4241.3	3700.3	3339.6	3344.2	3284.8	3330.5	3309.9	3321.3
42.5°	5414.6	5396.3	5330.1	4814.2	4074.6	3663.7	3590.7	3442.3	3524.5	3517.6	3533.6
45°	5914.5	5900.8	5882.5	5348.4	4611.0	4102.0	4063.2	3796.1	3871.5	3839.5	3908.0
47.5°	6313.9	6329.9	6329.9	5944.1	5184.0	4686.4	4629.3	4207.0	4350.8	4366.8	4382.8
50°	6654.1	6660.9	6654.1	6512.5	5823.2	5355.2	5238.8	4809.6	4953.5	5079.0	5225.1
52.5°	7124.3	7133.4	7101.5	7046.7	6690.6	6058.3	5928.2	5451.1	5745.5	5877.9	6140.5
55°	7704.1	7635.6	7576.3	7617.4	7523.8	6832.1	6697.4	6113.1	6555.9	6731.7	7256.7
57.5°	7811.4	7870.7	8021.4	8347.8	8482.5	7585.4	7507.8	6925.7	7471.3	7624.2	8500.8
60°	8190.3	8092.2	8462.0	9169.6	9320.3	8567.0	8487.1	7816.0	8382.1	8541.9	9649.0
62.5°	8439.1	8434.6	8982.4	9822.4	10164.9	9585.0	9423.0	8973.3	9365.9	9521.1	10899.9
65°	8366.1	8432.3	9404.7	10205.9	10870.2	10742.4	10648.8	9968.5	10486.7	10473.0	11714.8
67.5°	7699.5	7886.7	9137.6	10482.1	11920.2	12153.1	12123.4	11367.8	11397.5	11107.6	12077.8
70°	6775.0	6711.1	8007.7	10194.5	12445.3	13826.3	13819.4	12408.7	12217.0	11246.8	11036.8
72°	5204.5	5133.8	6199.8	8754.1	12169.1	14495.1	14700.6	13130.1	12207.9	10669.3	9117.1
72.5°	4725.2	4663.6	5725.0	8240.5	11863.2	14668.6	14572.7	13157.5	12112.0	10397.7	8516.7
75°	2175.4	2104.6	2860.2	5044.8	9254.1	12997.7	13324.1	12312.9	10578.0	8277.1	5101.8
77.5°	648.3	627.7	919.9	2036.2	5378.0	9575.9	9701.5	9290.6	7384.5	4533.4	1892.4
80°	360.7	362.9	474.8	762.4	2364.9	5535.5	5987.5	5738.7	3622.6	1497.4	630.0
82.5°	200.9	212.3	296.8	452.0	1086.6	2540.6	2734.7	2636.5	1310.3	703.1	344.7
85°	105.0	109.6	155.2	242.0	616.3	803.5	826.3	885.7	680.2	479.4	184.9
87.5°	41.1	41.1	57.1	100.4	228.3	248.8	223.7	271.6	390.3	310.4	91.3
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°	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0
2.5°	2214.2	2196.0	2193.7	2164.0	2173.1	2148.0	2150.3	2145.7	2148.0	2143.5	2132.0
5°	2202.8	2189.1	2150.3	2175.4	2152.6	2184.5	2209.7	2200.5	2207.4	2205.1	2207.4
7.5°	2218.8	2200.5	2196.0	2182.3	2202.8	2216.5	2237.0	2294.1	2289.5	2296.4	2310.1
10°	2266.7	2246.2	2232.5	2253.0	2241.6	2285.0	2307.8	2337.5	2390.0	2392.3	2364.9
12.5°	2360.3	2346.6	2319.2	2323.8	2362.6	2376.3	2390.0	2408.2	2442.5	2435.6	2460.7
15°	2467.6	2437.9	2421.9	2417.4	2426.5	2442.5	2440.2	2458.5	2476.7	2492.7	2485.9
17.5°	2545.2	2506.4	2511.0	2533.8	2531.5	2526.9	2497.3	2488.1	2497.3	2506.4	2501.8
20°	2625.1	2629.7	2595.4	2574.9	2565.8	2520.1	2497.3	2469.9	2442.5	2456.2	2476.7
22.5°	2725.5	2705.0	2654.8	2593.1	2547.5	2520.1	2449.3	2401.4	2401.4	2415.1	2408.2
25°	2839.7	2796.3	2709.6	2597.7	2540.6	2424.2	2374.0	2367.2	2348.9	2369.4	2378.6
27.5°	2928.7	2889.9	2771.2	2581.7	2424.2	2330.6	2301.0	2291.8	2321.5	2323.8	2360.3
30°	2965.2	2953.8	2780.3	2540.6	2305.5	2154.9	2136.6	2177.7	2209.7	2257.6	2259.9
32.5°	3013.2	3017.7	2794.0	2444.8	2150.3	1999.6	1972.3	2022.5	2113.8	2152.6	2182.3
35°	3093.1	3115.9	2782.6	2326.1	1985.9	1842.1	1837.6	1851.3	1940.3	2008.8	2047.6
37.5°	3232.3	3227.7	2780.3	2184.5	1855.8	1705.2	1668.7	1673.2	1732.6	1789.6	1782.8
40°	3419.5	3401.2	2773.5	1999.6	1686.9	1588.8	1527.1	1504.3	1499.7	1483.8	1488.3
42.5°	3675.1	3638.6	2771.2	1812.5	1534.0	1429.0	1385.6	1326.2	1282.9	1200.7	1205.3
45°	4031.2	3967.3	2711.8	1636.7	1383.3	1296.6	1230.4	1187.0	1093.4	990.7	990.7
47.5°	4581.4	4373.6	2714.1	1442.7	1237.2	1166.5	1120.8	1045.5	945.0	862.9	853.7
50°	5391.7	4916.9	2636.5	1289.7	1118.5	1070.6	1022.6	935.9	840.0	783.0	789.8
52.5°	6437.2	5727.3	2634.2	1152.8	1024.9	990.7	938.2	860.6	789.8	753.3	739.6
55°	7683.6	6800.2	2716.4	1040.9	929.1	910.8	888.0	824.1	755.6	723.6	721.3
57.5°	8959.6	7847.9	2848.8	961.0	846.9	860.6	844.6	794.4	739.6	703.1	698.5
60°	10094.1	8678.8	2581.7	865.1	773.8	803.5	826.3	783.0	753.3	751.0	735.0
62.5°	10950.1	9034.9	1963.1	792.1	735.0	789.8	851.4	878.8	865.1	883.4	885.7
65°	11262.8	8820.3	1351.4	753.3	705.4	821.8	958.7	949.6	869.7	835.5	853.7
67.5°	10824.6	7950.6	1002.1	707.6	684.8	888.0	1020.4	906.2	785.2	780.7	767.0
70°	9308.8	6738.5	817.2	659.7	650.6	851.4	993.0	840.0	739.6	709.9	696.2
72°	7416.5	5247.9	716.8	625.5	595.8	760.1	929.1	787.5	700.8	664.3	648.3
72.5°	6770.5	4864.4	703.1	609.5	584.4	739.6	897.1	771.6	691.7	659.7	634.6
75°	3713.9	2490.4	618.6	559.3	493.1	639.2	830.9	723.6	652.9	607.2	602.6
77.5°	1381.0	965.6	534.2	495.3	426.9	552.4	755.6	687.1	593.5	536.4	525.0
80°	529.6	509.0	436.0	417.7	358.4	483.9	696.2	616.3	504.5	447.4	429.1
82.5°	321.9	296.8	331.0	326.4	273.9	440.6	655.1	577.5	447.4	362.9	351.5
85°	175.8	175.8	230.6	221.4	191.7	351.5	495.3	383.5	283.1	232.8	237.4
87.5°	77.6	91.3	123.3	116.4	105.0	198.6	242.0	203.2	141.5	95.9	102.7
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)