

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: P481296

Luminaire Tested: **IFLD-M-SA4A-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481296
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

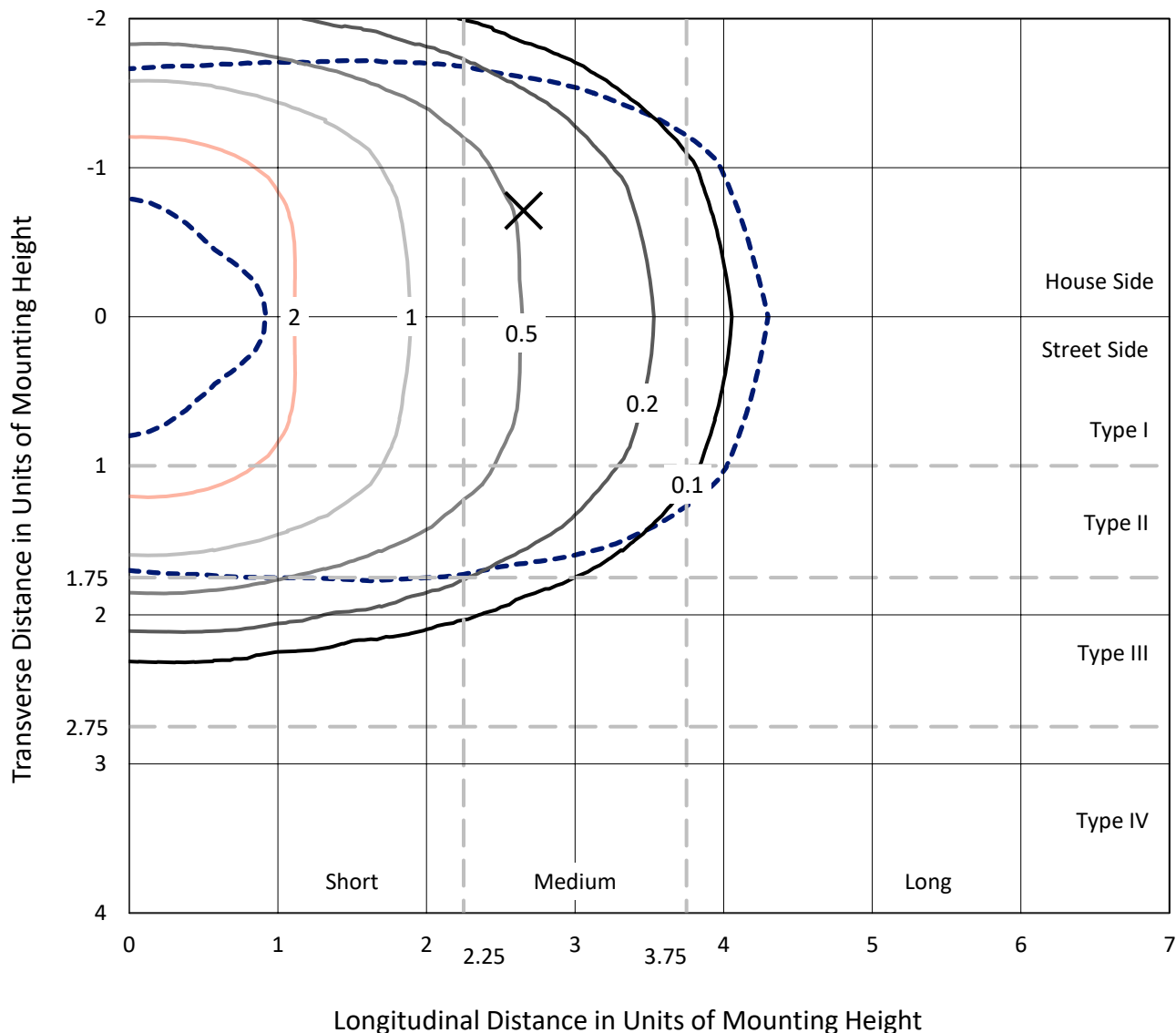
Lumens per Lamp: N/A
Luminaire Lumens: 19021.9 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 128.6
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

REPORT NUMBER: P481296
 CATALOG NUMBER: IFLD-M-SA4A-740-U-RW

Iso-Footcandle Lines of Horizontal Illumination

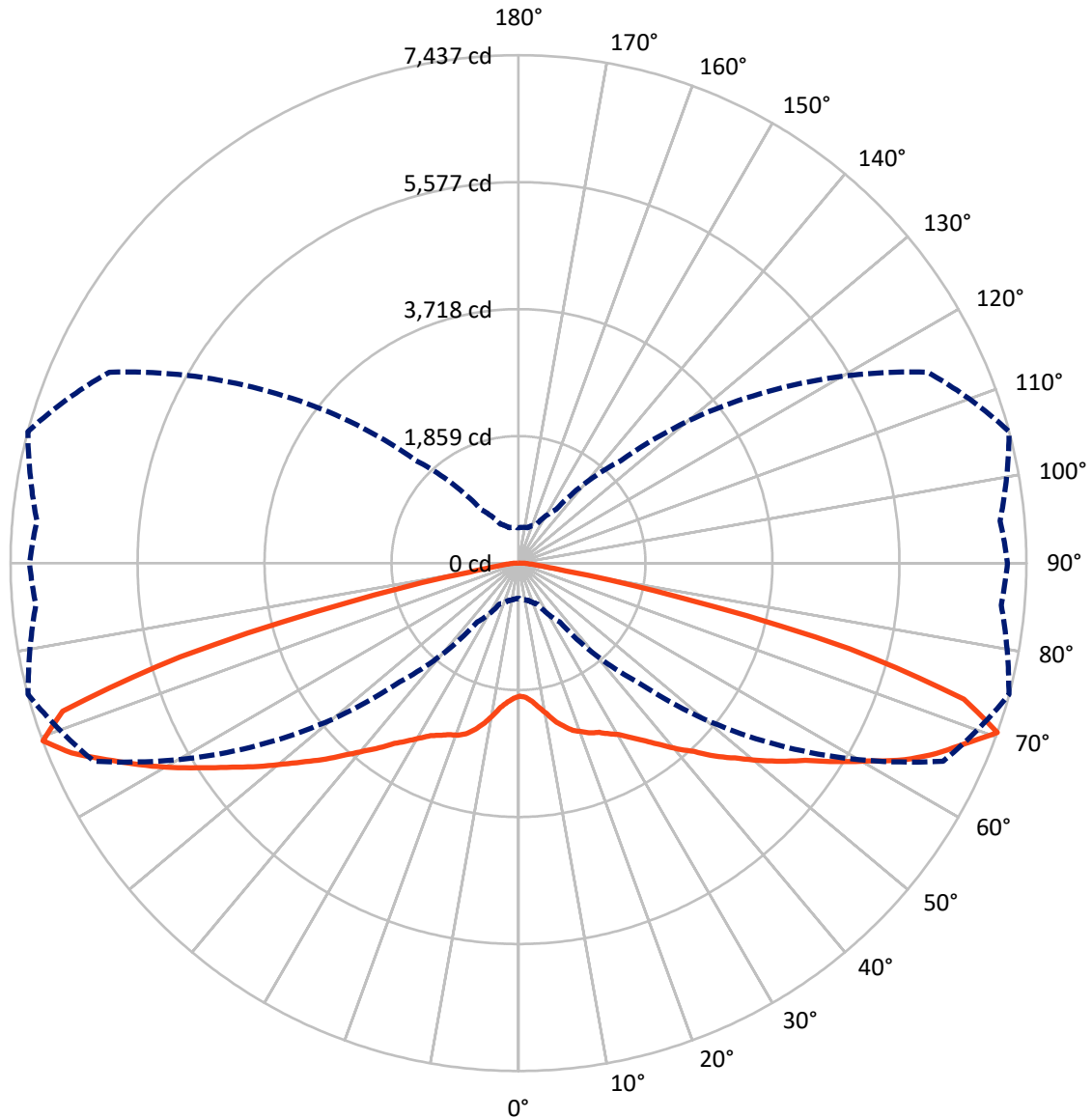
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P481296
CATALOG NUMBER: IFLD-M-SA4A-740-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481296
 CATALOG NUMBER: IFLD-M-SA4A-740-U-RW

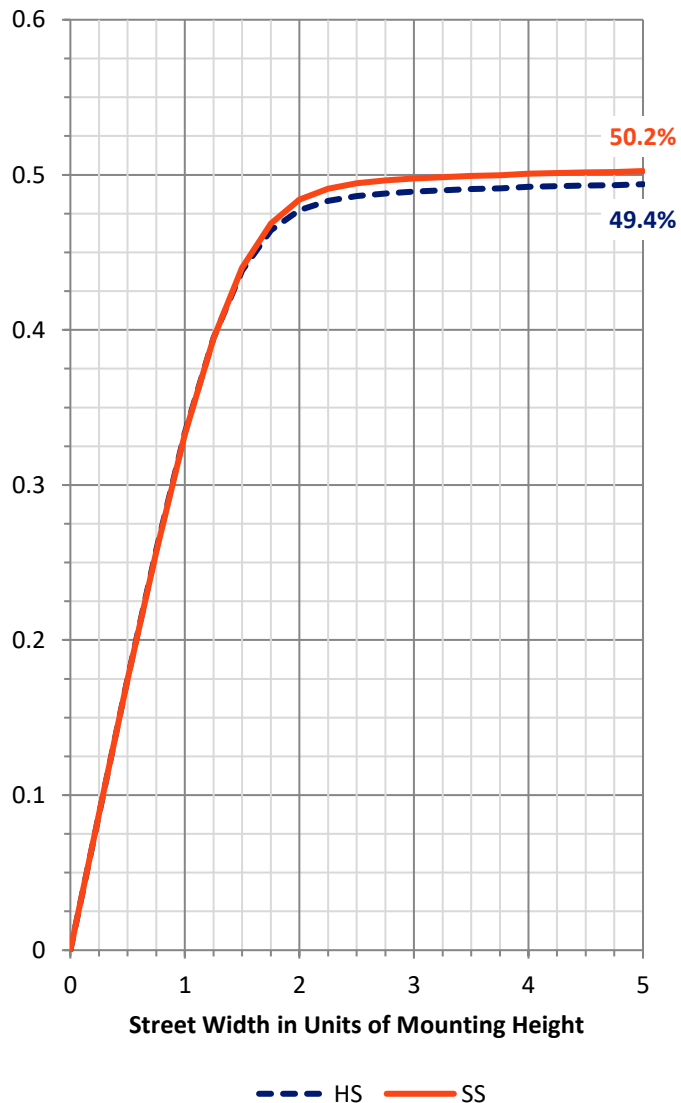
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9443.3	0.0	9443.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9578.6	0.0	9578.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	19021.9	0.0	19021.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.0
10°-20°	660.1	3.5
20°-30°	1278.2	6.7
30°-40°	2162.0	11.4
40°-50°	3449.0	18.1
50°-60°	4721.0	24.8
60°-70°	4449.8	23.4
70°-80°	1960.3	10.3
80°-90°	147.5	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°	19021.9	100.0
0°-180°	19021.9	100.0

Coefficient of Utilization



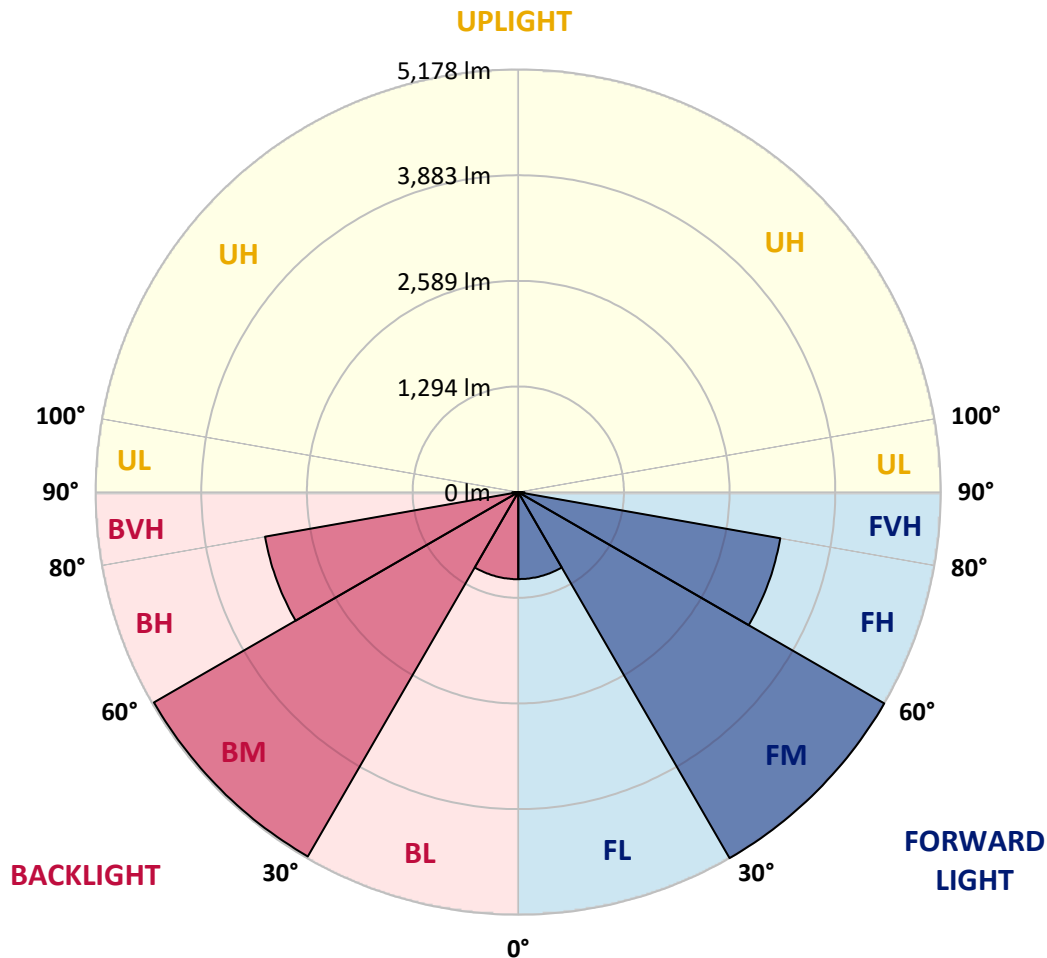
REPORT NUMBER: P481296
 CATALOG NUMBER: IFLD-M-SA4A-740-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.5	5.6			
FM (30°-60°)	5177.6	27.2			
FH (60°-80°)	3260.1	17.1			G2/5000
FVH (80°-90°)	75.3	0.4			G1/100
BL (0°-30°)	1066.7	5.6	B3/2500		
BM (30°-60°)	5154.5	27.1	B4/8500		
BH (60°-80°)	3150.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	72.2	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





REPORT NUMBER: P481296

CATALOG NUMBER: IFLD-M-SA4A-740-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8
2.5°	1935.5	1935.5	1933.5	1943.7	1954.0	1958.1	1966.3	1968.3	1980.6	1970.4	1990.9
5°	1929.4	1927.3	1943.7	1968.3	1968.3	1995.0	2011.4	2033.9	2040.1	2052.4	2056.5
7.5°	1972.4	1968.3	1960.1	1986.8	2009.3	2050.3	2072.9	2111.9	2126.2	2142.6	2161.1
10°	1999.1	1999.1	1990.9	2038.0	2058.5	2113.9	2163.1	2202.1	2257.4	2275.9	2277.9
12.5°	2003.2	2009.3	2033.9	2095.4	2152.9	2224.6	2261.5	2335.3	2390.7	2425.6	2437.9
15°	2064.7	2052.4	2079.0	2163.1	2247.2	2310.7	2376.3	2429.7	2509.6	2554.7	2583.4
17.5°	2120.1	2107.7	2157.0	2257.4	2343.5	2442.0	2499.4	2556.8	2614.2	2655.2	2657.2
20°	2208.2	2218.5	2261.5	2370.2	2483.0	2569.1	2634.7	2644.9	2673.6	2733.1	2722.9
22.5°	2316.9	2308.7	2398.9	2517.8	2640.8	2712.6	2749.5	2722.9	2708.5	2772.1	2786.4
25°	2425.6	2450.2	2532.2	2642.9	2790.5	2886.9	2897.1	2823.3	2770.0	2792.6	2786.4
27.5°	2591.6	2595.7	2681.8	2813.1	2962.7	3046.8	3040.7	2936.1	2833.6	2835.6	2839.7
30°	2804.9	2784.4	2878.7	2997.6	3145.2	3221.1	3231.3	3081.7	2944.3	2903.3	2913.5
32.5°	3009.9	3034.5	3116.5	3251.8	3360.5	3403.6	3381.0	3247.7	3069.4	3014.0	3020.2
35°	3272.3	3268.2	3381.0	3495.8	3577.8	3586.0	3567.6	3372.8	3204.7	3132.9	3104.2
37.5°	3553.2	3590.1	3664.0	3758.3	3844.4	3848.5	3748.0	3592.2	3385.1	3266.2	3301.0
40°	3866.9	3907.9	3961.3	4098.6	4162.2	4096.6	3994.1	3782.9	3567.6	3463.0	3479.4
42.5°	4143.7	4162.2	4270.9	4432.8	4463.6	4434.9	4283.2	4026.9	3776.7	3661.9	3670.1
45°	4398.0	4422.6	4564.1	4709.6	4781.4	4732.2	4555.9	4311.9	4020.7	3922.3	3883.3
47.5°	4631.7	4680.9	4818.3	4968.0	5078.7	5082.8	4865.5	4570.2	4262.7	4133.5	4131.4
50°	4789.6	4861.4	4996.7	5166.9	5328.8	5392.4	5175.1	4857.3	4527.2	4389.8	4375.4
52.5°	4875.7	4949.5	5084.8	5349.3	5529.8	5628.2	5525.7	5125.8	4836.8	4693.2	4670.7
55°	4771.1	4820.3	5041.8	5412.9	5691.7	5853.7	5786.1	5497.0	5144.3	5027.4	5047.9
57.5°	4326.2	4428.7	4701.4	5164.8	5687.6	6085.4	6079.3	5847.6	5499.0	5388.3	5392.4
60°	3561.4	3647.6	3983.8	4631.7	5458.0	6179.7	6397.1	6187.9	5896.8	5767.6	5763.5
62.5°	2513.7	2622.4	3011.9	3719.3	4781.4	6048.5	6762.0	6616.4	6286.3	6192.0	6226.9
65°	1406.5	1472.1	1833.0	2472.7	3643.5	5326.8	6827.6	7061.4	6682.1	6538.5	6544.7
67.5°	752.5	777.1	945.2	1297.9	2228.7	4106.8	6165.4	7317.7	7110.6	6862.5	6823.5
70°	516.7	524.9	567.9	664.3	1053.9	2456.3	4650.2	6860.4	7432.5	7094.2	7159.8
72.5°	436.7	432.6	442.9	453.1	551.5	1099.0	2729.0	5279.6	7016.3	6889.1	6864.5
75°	379.3	377.3	381.4	371.1	383.4	483.9	1207.7	3290.8	5136.1	5732.8	5825.0
77.5°	313.7	315.8	317.8	307.6	303.5	319.9	485.9	1445.5	2528.1	2790.5	3009.9
80°	237.8	241.9	258.3	248.1	231.7	233.7	287.0	483.9	725.8	658.2	678.7
82.5°	162.0	164.0	198.9	186.6	174.3	157.9	184.5	250.1	282.9	215.3	188.6
85°	114.8	112.8	129.2	118.9	110.7	80.0	110.7	141.5	170.2	106.6	96.4
87.5°	26.7	26.7	53.3	43.1	41.0	32.8	43.1	55.4	73.8	47.2	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481296
 CATALOG NUMBER: IFLD-M-SA4A-740-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8
2.5°	1984.7	1966.3	1966.3	1962.2	1945.8	1941.7	1927.3	1931.4	1921.2	1910.9
5°	2054.4	2029.8	2029.8	1995.0	1962.2	1958.1	1941.7	1941.7	1925.3	1929.4
7.5°	2150.8	2128.3	2091.3	2060.6	2015.5	1997.0	1966.3	1962.2	1958.1	1949.9
10°	2265.6	2236.9	2200.0	2136.5	2099.5	2064.7	2033.9	1990.9	1980.6	1982.7
12.5°	2421.5	2376.3	2296.4	2241.0	2193.9	2148.8	2103.6	2040.1	2025.7	2031.9
15°	2532.2	2474.8	2394.8	2374.3	2310.7	2255.4	2181.6	2109.8	2085.2	2079.0
17.5°	2622.4	2575.2	2528.1	2497.3	2446.1	2378.4	2275.9	2193.9	2138.5	2132.4
20°	2696.2	2634.7	2624.4	2642.9	2579.3	2534.2	2409.1	2308.7	2234.9	2204.1
22.5°	2741.3	2702.3	2731.1	2747.5	2743.4	2667.5	2538.3	2421.5	2329.2	2300.5
25°	2790.5	2745.4	2847.9	2903.3	2917.6	2792.6	2692.1	2538.3	2448.1	2429.7
27.5°	2815.1	2831.5	2950.4	3067.3	3057.1	2960.7	2825.4	2688.0	2616.2	2583.4
30°	2886.9	2913.5	3094.0	3225.2	3227.2	3132.9	3030.4	2874.6	2794.6	2780.3
32.5°	3016.1	3048.9	3241.6	3381.0	3405.6	3333.9	3231.3	3135.0	3053.0	3020.2
35°	3114.5	3198.5	3415.9	3543.0	3608.6	3565.5	3508.1	3407.7	3321.6	3292.8
37.5°	3255.9	3372.8	3581.9	3754.2	3828.0	3823.9	3780.8	3672.2	3600.4	3575.8
40°	3458.9	3575.8	3766.5	3994.1	4131.4	4125.3	4100.7	4016.6	3910.0	3897.7
42.5°	3674.2	3770.6	4018.7	4279.1	4475.9	4455.4	4389.8	4291.4	4217.5	4201.1
45°	3883.3	4033.0	4262.7	4596.9	4744.5	4795.7	4717.8	4549.7	4465.6	4455.4
47.5°	4145.8	4264.7	4551.8	4851.1	5070.5	5078.7	4945.4	4789.6	4635.8	4668.6
50°	4379.5	4537.4	4828.6	5156.6	5419.0	5324.7	5154.6	4959.8	4849.1	4806.0
52.5°	4629.7	4822.4	5160.7	5494.9	5640.5	5546.2	5269.4	5052.0	4883.9	4865.5
55°	4994.6	5095.1	5538.0	5794.3	5841.4	5642.5	5234.5	4927.0	4709.6	4656.3
57.5°	5365.7	5482.6	5870.1	6091.6	6042.4	5589.2	5009.0	4533.3	4248.3	4172.4
60°	5741.0	5884.5	6210.5	6413.5	6159.2	5222.2	4371.3	3758.3	3426.1	3358.5
62.5°	6159.2	6345.8	6637.0	6708.7	5812.7	4496.4	3469.2	2712.6	2376.3	2263.6
65°	6530.3	6721.0	7079.8	6647.2	5076.6	3354.4	2243.1	1550.1	1302.0	1211.8
67.5°	6835.8	7051.1	7227.4	5882.4	3717.3	1964.2	1168.7	816.0	723.8	691.0
70°	7077.8	7436.6	6612.3	4324.2	2124.2	957.5	631.5	537.2	524.9	516.7
72.5°	6866.6	6819.4	4937.2	2495.3	930.9	526.9	457.2	442.9	440.8	442.9
75°	5615.9	5009.0	2952.5	1084.6	467.5	381.4	379.3	373.2	383.4	383.4
77.5°	2724.9	2382.5	1234.3	465.4	307.6	299.3	309.6	309.6	309.6	309.6
80°	631.5	699.2	440.8	282.9	223.5	223.5	246.0	248.1	237.8	233.7
82.5°	215.3	287.0	241.9	178.4	147.6	166.1	186.6	190.7	157.9	159.9
85°	106.6	168.1	131.2	102.5	75.9	102.5	121.0	127.1	108.7	104.6
87.5°	49.2	73.8	49.2	34.9	26.7	36.9	34.9	28.7	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)