

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: P481141

Luminaire Tested: **IFLD-M-SA4B-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481141
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

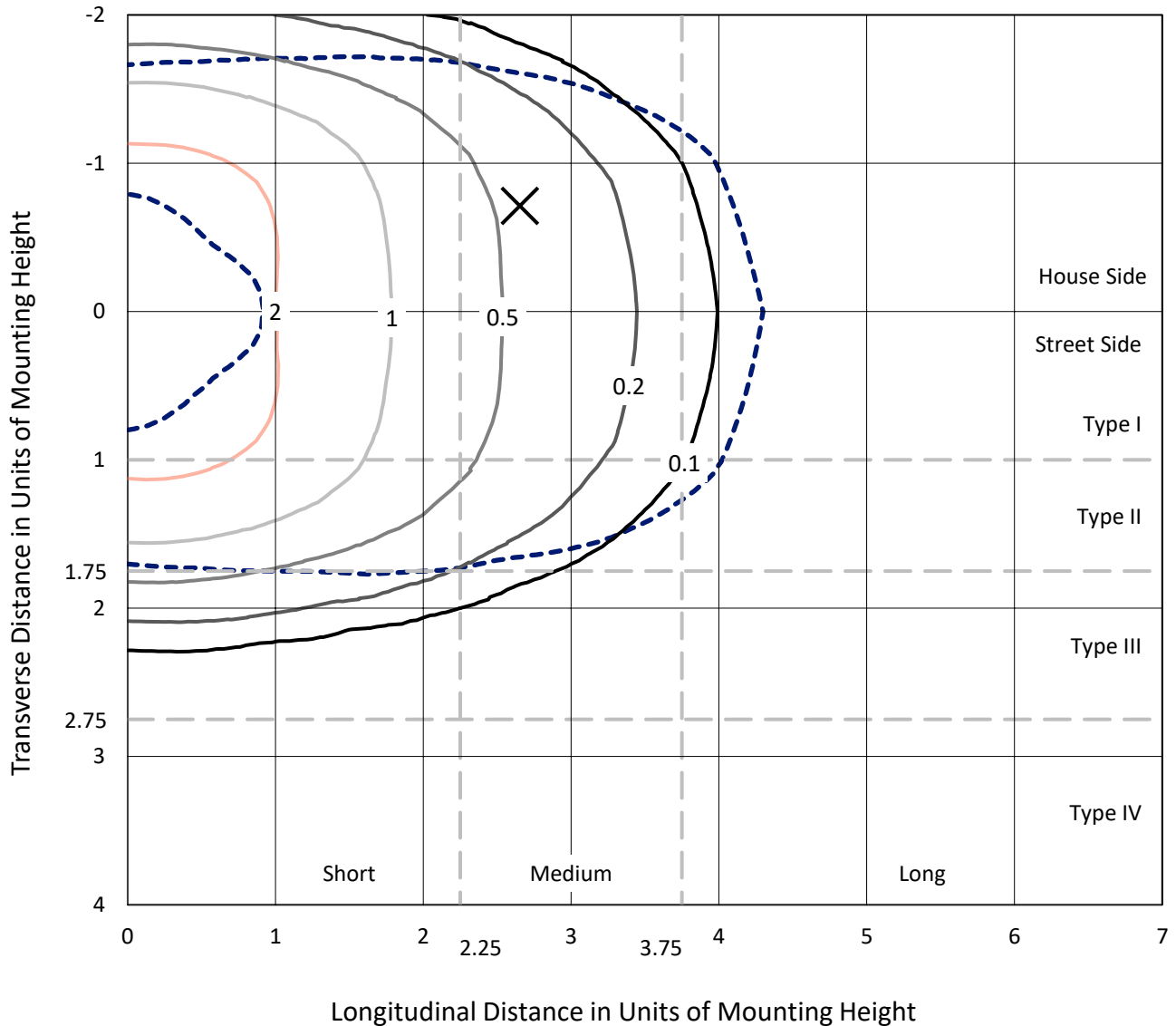
Lumens per Lamp: N/A
Luminaire Lumens: 17328.7 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 166.1
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

REPORT NUMBER: P481141
 CATALOG NUMBER: IFLD-M-SA4B-722-U-RW

Iso-Footcandle Lines of Horizontal Illumination

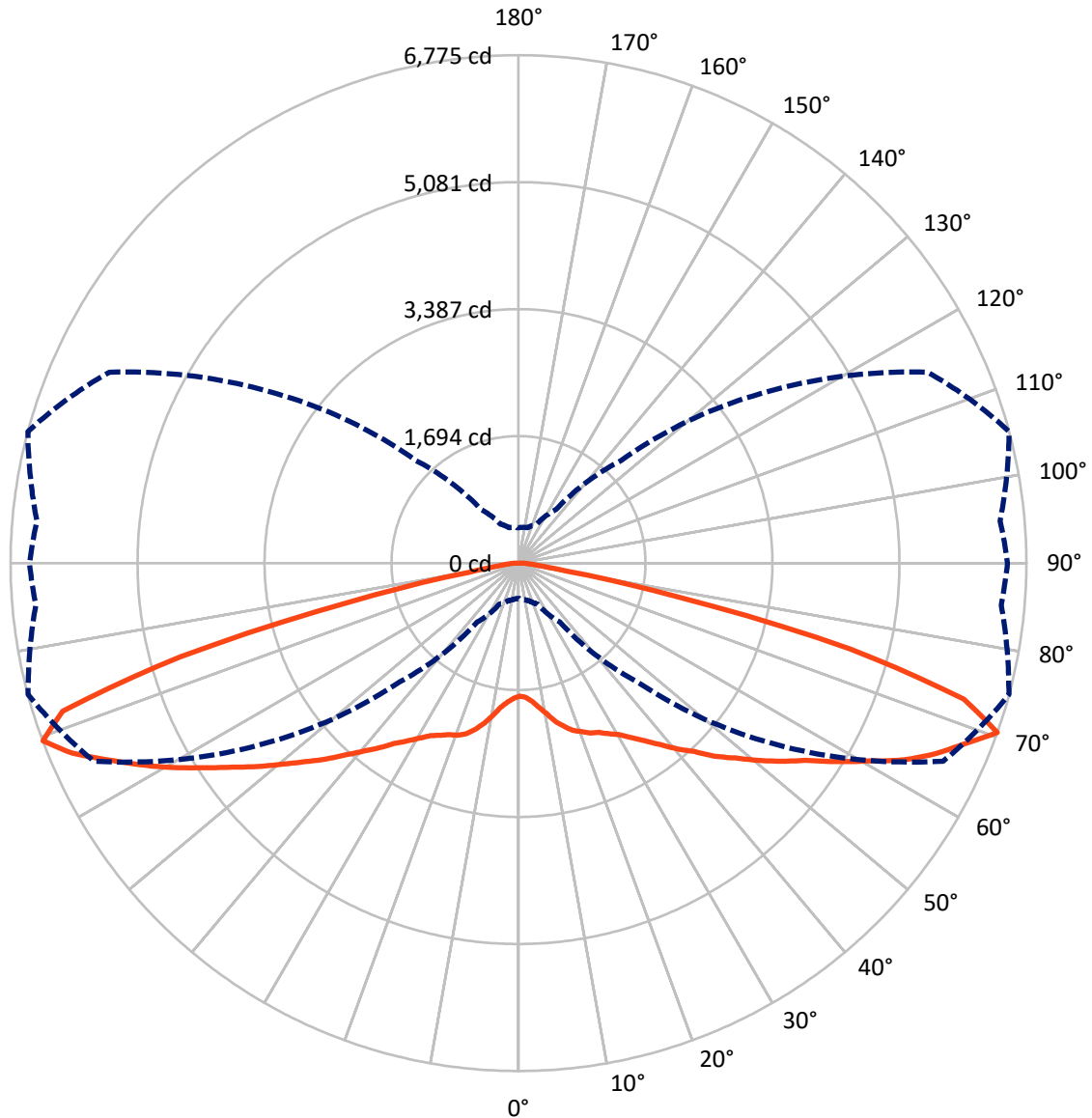
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481141
CATALOG NUMBER: IFLD-M-SA4B-722-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481141

CATALOG NUMBER: IFLD-M-SA4B-722-U-RW

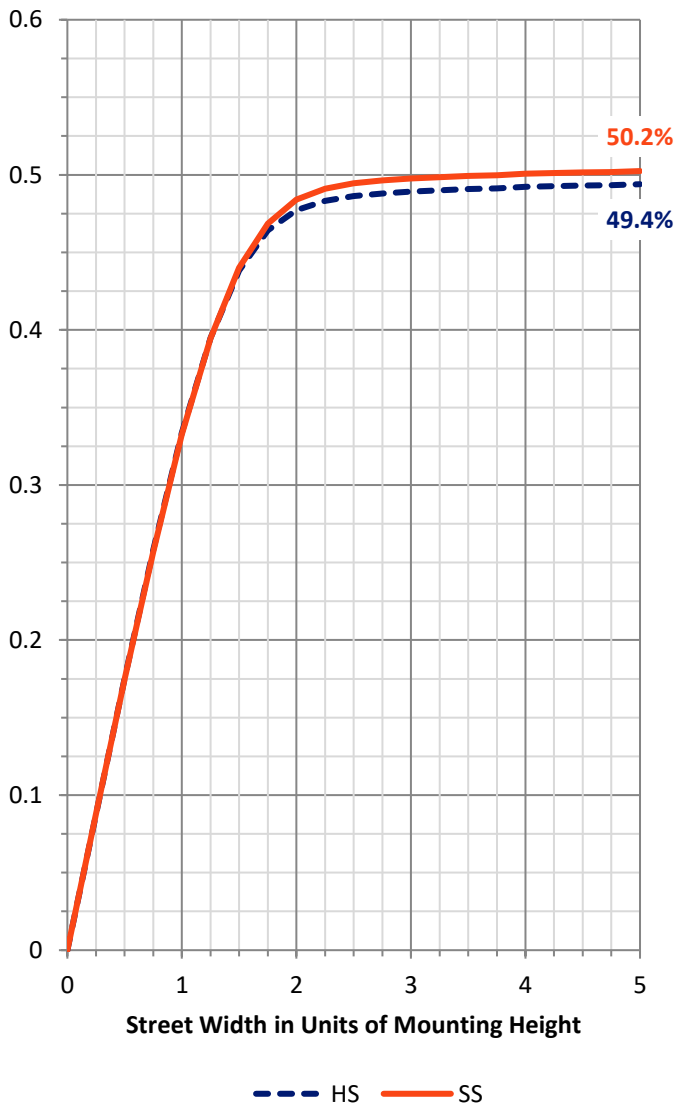
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8602.7	0.0	8602.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8726.0	0.0	8726.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	17328.7	0.0	17328.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	1.0
10°-20°	601.4	3.5
20°-30°	1164.4	6.7
30°-40°	1969.6	11.4
40°-50°	3142.0	18.1
50°-60°	4300.8	24.8
60°-70°	4053.8	23.4
70°-80°	1785.8	10.3
80°-90°	134.4	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°	17328.7	100.0
0°-180°	17328.7	100.0



REPORT NUMBER: P481141

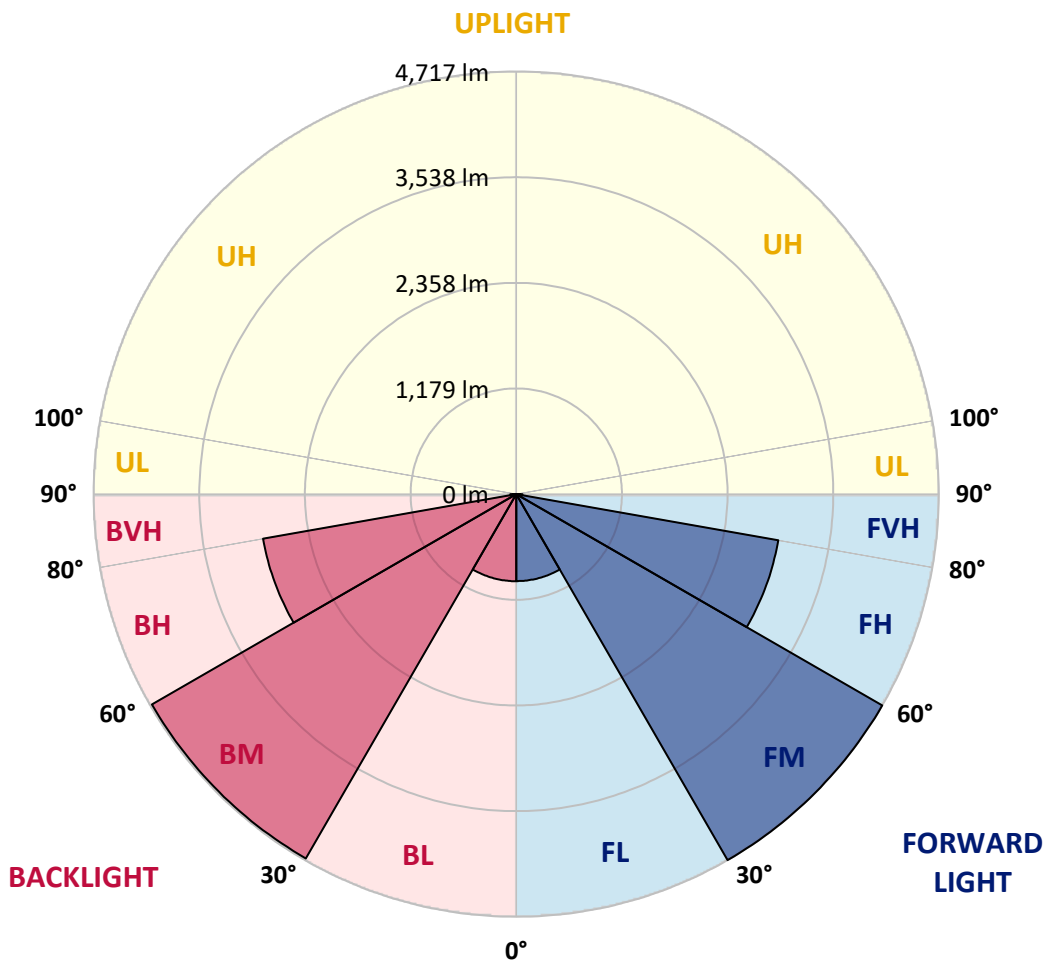
CATALOG NUMBER: IFLD-M-SA4B-722-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.7	5.6			
FM (30°-60°)	4716.7	27.2			
FH (60°-80°)	2970.0	17.1			G2/5000
FVH (80°-90°)	68.6	0.4			G1/100
BL (0°-30°)	971.7	5.6	B2/1000		
BM (30°-60°)	4695.6	27.1	B3/5000		
BH (60°-80°)	2869.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	65.7	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





REPORT NUMBER: P481141
 CATALOG NUMBER: IFLD-M-SA4B-722-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1763.2	1763.2	1761.4	1770.7	1780.0	1783.8	1791.3	1793.1	1804.3	1795.0	1813.7
5°	1757.6	1755.8	1770.7	1793.1	1793.1	1817.4	1832.3	1852.9	1858.5	1869.7	1873.4
7.5°	1796.9	1793.1	1785.6	1809.9	1830.5	1867.8	1888.4	1923.9	1936.9	1951.9	1968.7
10°	1821.1	1821.1	1813.7	1856.6	1875.3	1925.7	1970.6	2006.1	2056.5	2073.3	2075.2
12.5°	1824.9	1830.5	1852.9	1908.9	1961.2	2026.6	2060.2	2127.5	2177.9	2209.6	2220.9
15°	1880.9	1869.7	1894.0	1970.6	2047.1	2105.0	2164.8	2213.4	2286.2	2327.3	2353.5
17.5°	1931.3	1920.1	1965.0	2056.5	2134.9	2224.6	2276.9	2329.2	2381.5	2418.8	2420.7
20°	2011.7	2021.0	2060.2	2159.2	2261.9	2340.4	2400.2	2409.5	2435.7	2489.8	2480.5
22.5°	2110.7	2103.2	2185.4	2293.7	2405.8	2471.1	2504.8	2480.5	2467.4	2525.3	2538.4
25°	2209.6	2232.1	2306.8	2407.6	2542.1	2629.9	2639.2	2572.0	2523.4	2544.0	2538.4
27.5°	2360.9	2364.7	2443.1	2562.7	2699.0	2775.6	2770.0	2674.7	2581.3	2583.2	2586.9
30°	2555.2	2536.5	2622.4	2730.8	2865.3	2934.4	2943.7	2807.4	2682.2	2644.9	2654.2
32.5°	2742.0	2764.4	2839.1	2962.4	3061.4	3100.6	3080.1	2958.6	2796.1	2745.7	2751.3
35°	2981.1	2977.3	3080.1	3184.7	3259.4	3266.8	3250.0	3072.6	2919.4	2854.0	2827.9
37.5°	3237.0	3270.6	3337.8	3423.7	3502.2	3505.9	3414.4	3272.4	3083.8	2975.5	3007.2
40°	3522.7	3560.1	3608.7	3733.8	3791.7	3731.9	3638.5	3446.2	3250.0	3154.8	3169.7
42.5°	3774.9	3791.7	3890.7	4038.3	4066.3	4040.1	3901.9	3668.4	3440.5	3336.0	3343.4
45°	4006.5	4028.9	4157.8	4290.4	4355.8	4311.0	4150.3	3928.1	3662.8	3573.2	3537.7
47.5°	4219.4	4264.3	4389.4	4525.8	4626.6	4630.4	4432.4	4163.4	3883.2	3765.6	3763.7
50°	4363.3	4428.6	4551.9	4706.9	4854.5	4912.4	4714.4	4424.9	4124.2	3999.0	3986.0
52.5°	4441.7	4509.0	4632.2	4873.2	5037.5	5127.2	5033.8	4669.6	4406.2	4275.5	4254.9
55°	4346.4	4391.3	4593.0	4931.1	5185.1	5332.7	5271.0	5007.7	4686.4	4579.9	4598.6
57.5°	3941.1	4034.5	4282.9	4705.1	5181.4	5543.7	5538.1	5327.1	5009.5	4908.7	4912.4
60°	3244.4	3322.9	3629.2	4219.4	4972.2	5629.7	5827.6	5637.1	5371.9	5254.2	5250.5
62.5°	2290.0	2389.0	2743.8	3388.2	4355.8	5510.1	6160.1	6027.5	5726.8	5640.9	5672.6
65°	1281.3	1341.1	1669.8	2252.6	3319.1	4852.6	6219.9	6432.8	6087.3	5956.5	5962.1
67.5°	685.5	707.9	861.1	1182.3	2030.3	3741.3	5616.6	6666.3	6477.6	6251.6	6216.1
70°	470.7	478.2	517.4	605.2	960.1	2237.7	4236.2	6249.8	6770.9	6462.7	6522.5
72.5°	397.8	394.1	403.5	412.8	502.4	1001.2	2486.1	4809.7	6391.7	6275.9	6253.5
75°	345.5	343.7	347.4	338.1	349.3	440.8	1100.2	2997.9	4678.9	5222.5	5306.5
77.5°	285.8	287.6	289.5	280.2	276.4	291.4	442.7	1316.8	2303.0	2542.1	2742.0
80°	216.7	220.4	235.3	226.0	211.1	212.9	261.5	440.8	661.2	599.6	618.3
82.5°	147.6	149.4	181.2	170.0	158.8	143.8	168.1	227.9	257.8	196.1	171.8
85°	104.6	102.7	117.7	108.3	100.9	72.8	100.9	128.9	155.0	97.1	87.8
87.5°	24.3	24.3	48.6	39.2	37.4	29.9	39.2	50.4	67.2	43.0	39.2
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: P481141
 CATALOG NUMBER: IFLD-M-SA4B-722-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1808.1	1791.3	1791.3	1787.5	1772.6	1768.8	1755.8	1759.5	1750.2	1740.8
5°	1871.6	1849.2	1849.2	1817.4	1787.5	1783.8	1768.8	1768.8	1753.9	1757.6
7.5°	1959.4	1938.8	1905.2	1877.2	1836.1	1819.3	1791.3	1787.5	1783.8	1776.3
10°	2064.0	2037.8	2004.2	1946.3	1912.7	1880.9	1852.9	1813.7	1804.3	1806.2
12.5°	2205.9	2164.8	2092.0	2041.5	1998.6	1957.5	1916.4	1858.5	1845.4	1851.0
15°	2306.8	2254.5	2181.6	2163.0	2105.0	2054.6	1987.4	1922.0	1899.6	1894.0
17.5°	2389.0	2346.0	2303.0	2275.0	2228.3	2166.7	2073.3	1998.6	1948.2	1942.5
20°	2456.2	2400.2	2390.8	2407.6	2349.7	2308.6	2194.7	2103.2	2035.9	2007.9
22.5°	2497.3	2461.8	2488.0	2502.9	2499.2	2430.1	2312.4	2205.9	2121.9	2095.7
25°	2542.1	2501.0	2594.4	2644.9	2657.9	2544.0	2452.5	2312.4	2230.2	2213.4
27.5°	2564.5	2579.5	2687.8	2794.3	2784.9	2697.2	2573.9	2448.7	2383.4	2353.5
30°	2629.9	2654.2	2818.6	2938.1	2940.0	2854.0	2760.7	2618.7	2545.9	2532.8
32.5°	2747.6	2777.5	2953.0	3080.1	3102.5	3037.1	2943.7	2855.9	2781.2	2751.3
35°	2837.2	2913.8	3111.8	3227.6	3287.4	3248.2	3195.9	3104.3	3025.9	2999.7
37.5°	2966.1	3072.6	3263.1	3420.0	3487.2	3483.5	3444.3	3345.3	3279.9	3257.5
40°	3151.0	3257.5	3431.2	3638.5	3763.7	3758.1	3735.7	3659.1	3562.0	3550.8
42.5°	3347.2	3434.9	3661.0	3898.2	4077.5	4058.8	3999.0	3909.4	3842.1	3827.2
45°	3537.7	3674.0	3883.2	4187.7	4322.2	4368.9	4297.9	4144.7	4068.1	4058.8
47.5°	3776.8	3885.1	4146.6	4419.3	4619.2	4626.6	4505.2	4363.3	4223.2	4253.1
50°	3989.7	4133.5	4398.7	4697.6	4936.7	4850.8	4695.7	4518.3	4417.4	4378.2
52.5°	4217.6	4393.1	4701.3	5005.8	5138.4	5052.5	4800.3	4602.3	4449.2	4432.4
55°	4550.0	4641.6	5045.0	5278.5	5321.5	5140.3	4768.6	4488.4	4290.4	4241.8
57.5°	4888.1	4994.6	5347.6	5549.3	5504.5	5091.7	4563.1	4129.8	3870.2	3801.0
60°	5229.9	5360.7	5657.7	5842.6	5611.0	4757.4	3982.2	3423.7	3121.1	3059.5
62.5°	5611.0	5780.9	6046.2	6111.6	5295.3	4096.2	3160.4	2471.1	2164.8	2062.1
65°	5949.0	6122.8	6449.6	6055.5	4624.8	3055.8	2043.4	1412.1	1186.1	1103.9
67.5°	6227.4	6423.5	6584.1	5358.8	3386.4	1789.4	1064.7	743.4	659.3	629.5
70°	6447.8	6774.6	6023.8	3939.3	1935.1	872.3	575.3	489.4	478.2	470.7
72.5°	6255.4	6212.4	4497.7	2273.2	848.0	480.0	416.5	403.5	401.6	403.5
75°	5116.0	4563.1	2689.7	988.1	425.9	347.4	345.5	339.9	349.3	349.3
77.5°	2482.4	2170.4	1124.4	424.0	280.2	272.7	282.0	282.0	282.0	282.0
80°	575.3	636.9	401.6	257.8	203.6	203.6	224.1	226.0	216.7	212.9
82.5°	196.1	261.5	220.4	162.5	134.5	151.3	170.0	173.7	143.8	145.7
85°	97.1	153.2	119.5	93.4	69.1	93.4	110.2	115.8	99.0	95.3
87.5°	44.8	67.2	44.8	31.8	24.3	33.6	31.8	26.1	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)