

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: P480734

Luminaire Tested: **IFLD-S-SA3E-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480734
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

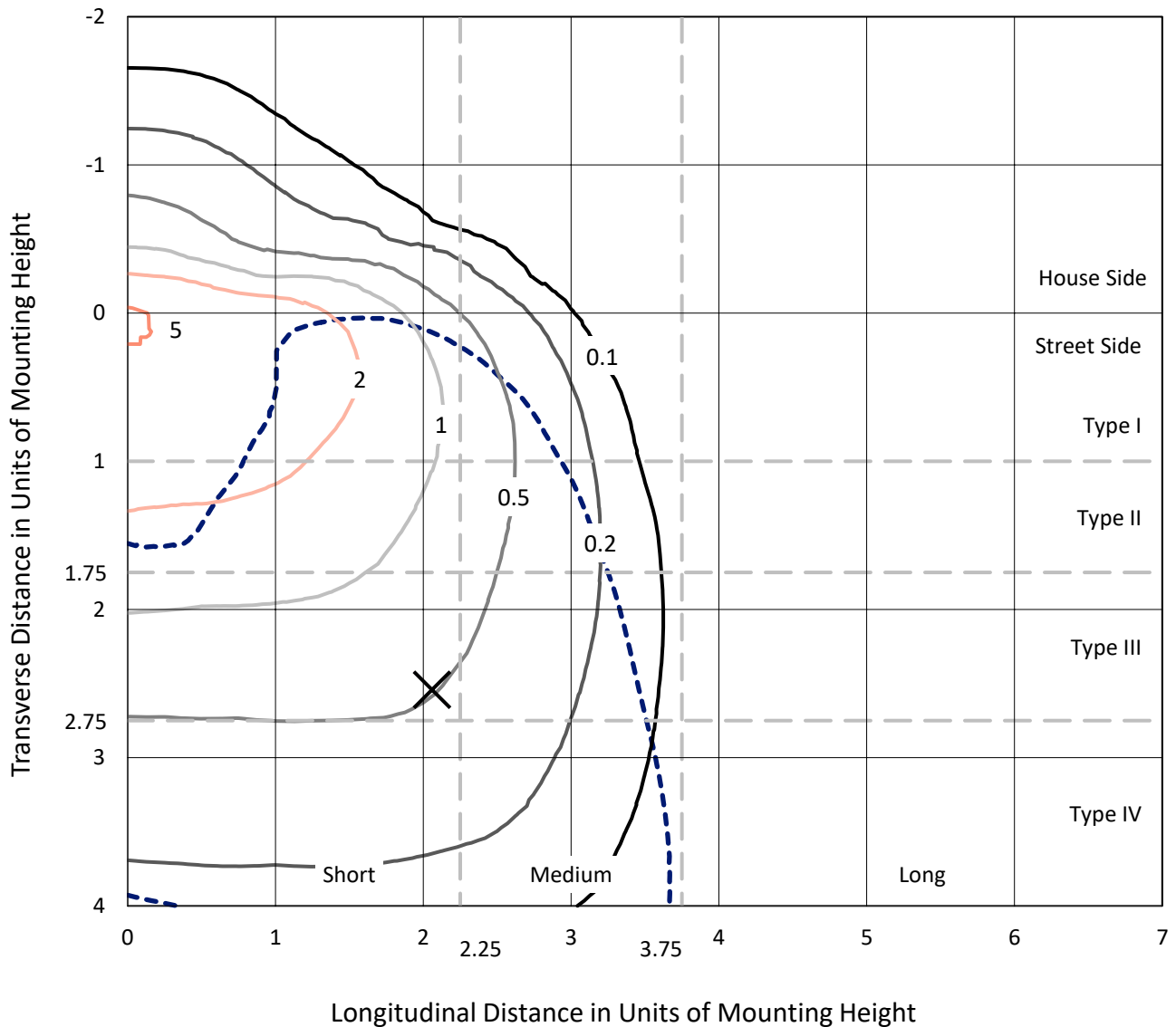
Lumens per Lamp: N/A
Luminaire Lumens: 19218.5 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 232.1
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

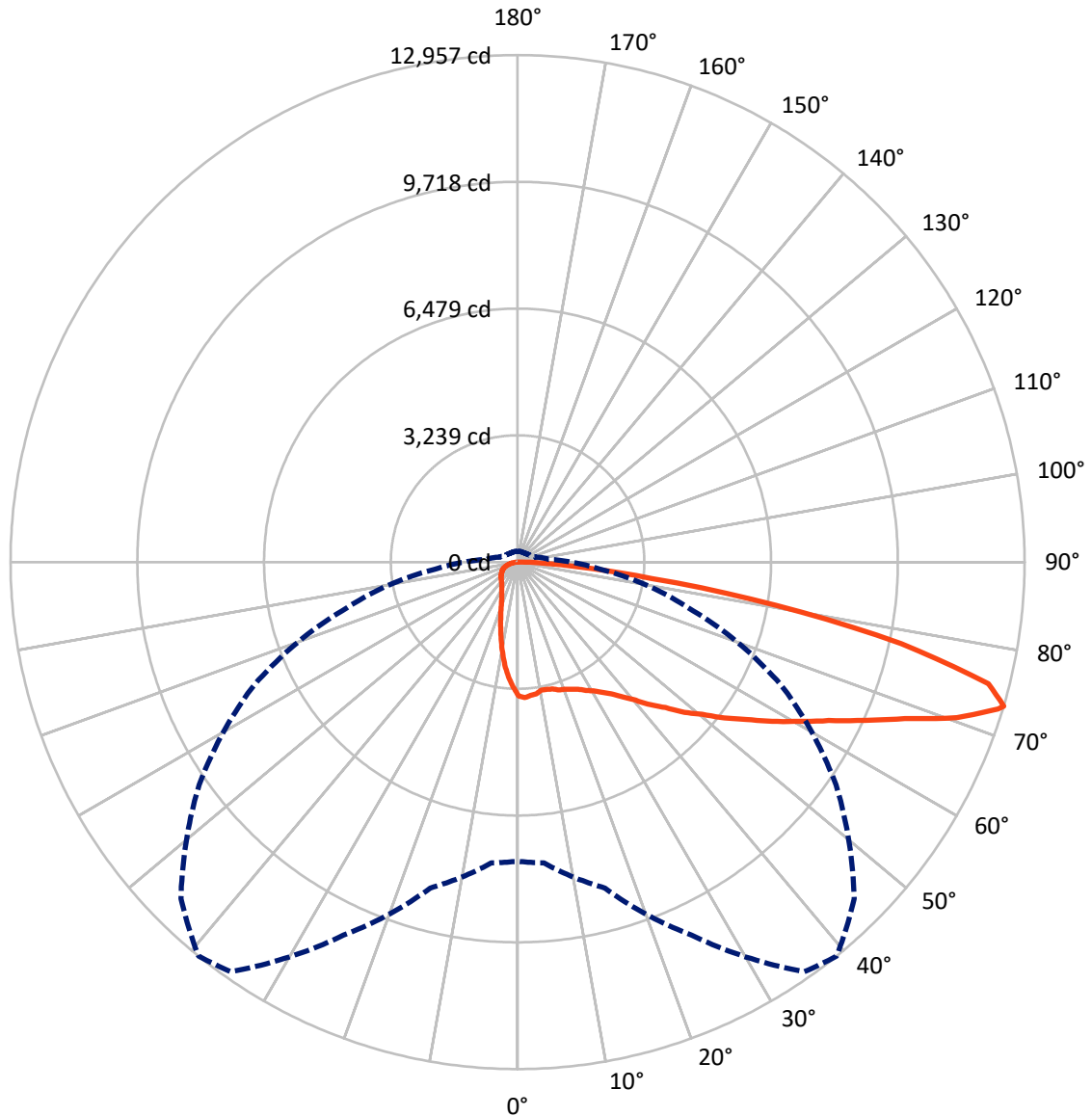
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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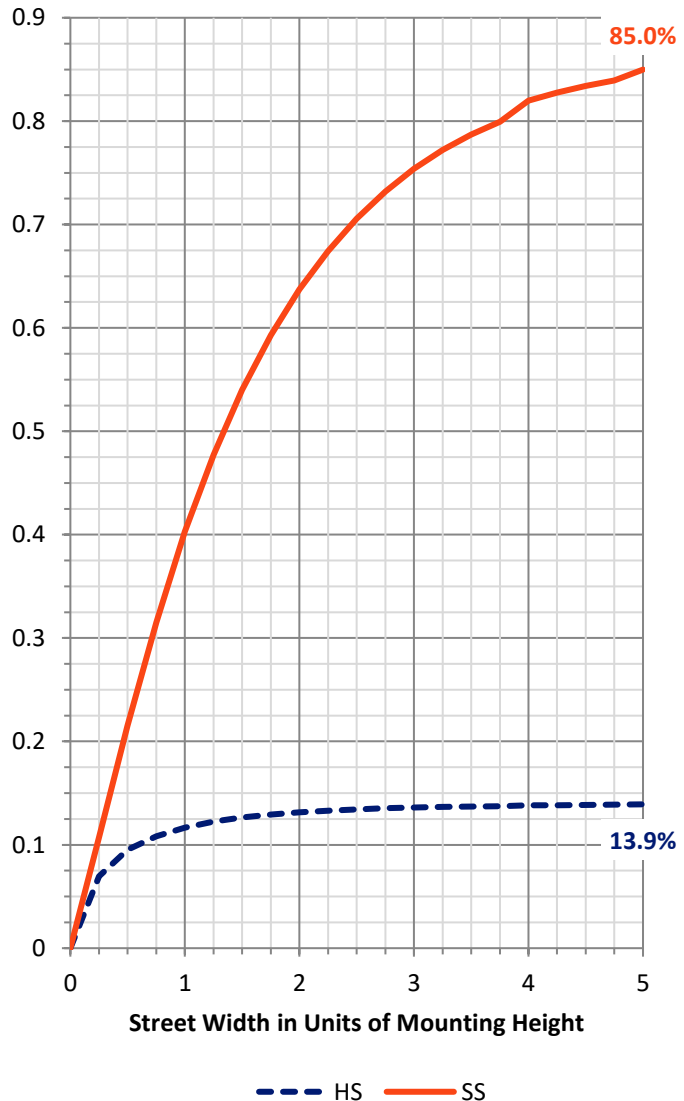
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2701.6	0.0	2701.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16516.9	0.0	16516.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	19218.5	0.0	19218.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.5
10°-20°	754.9	3.9
20°-30°	1153.6	6.0
30°-40°	1682.0	8.8
40°-50°	2541.7	13.2
50°-60°	3680.6	19.2
60°-70°	4676.3	24.3
70°-80°	3790.9	19.7
80°-90°	641.4	3.3
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°	19218.5	100.0
0°-180°	19218.5	100.0

Coefficient of Utilization



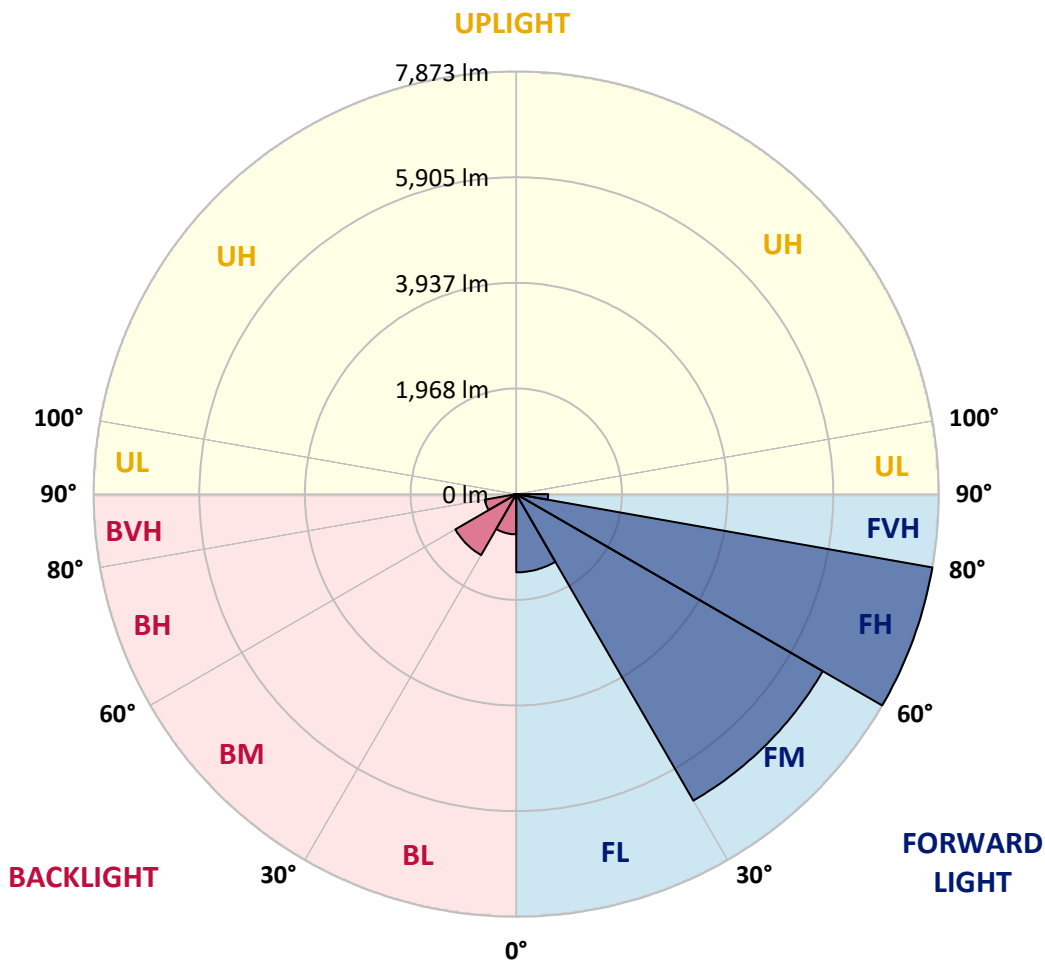
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.3	7.6			
FM (30°-60°)	6593.2	34.3			
FH (60°-80°)	7873.0	41.0			G4/12000
FVH (80°-90°)	594.3	3.1			G4/750
BL (0°-30°)	749.2	3.9	B2/1000		
BM (30°-60°)	1311.1	6.8	B2/2500		
BH (60°-80°)	594.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	47.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0
2.5°	3502.7	3466.2	3472.6	3459.7	3472.6	3468.3	3461.9	3429.6	3461.9	3429.6	3421.0
5°	3455.4	3455.4	3476.9	3444.7	3449.0	3427.5	3449.0	3425.3	3403.8	3350.0	3335.0
7.5°	3440.4	3438.2	3440.4	3395.2	3416.7	3403.8	3382.3	3356.5	3313.5	3279.1	3229.6
10°	3337.1	3358.6	3335.0	3347.9	3365.1	3326.4	3324.2	3317.8	3298.4	3253.3	3223.2
12.5°	3281.2	3317.8	3330.7	3319.9	3335.0	3339.3	3326.4	3317.8	3294.1	3264.0	3178.0
15°	3304.9	3261.9	3298.4	3369.4	3354.3	3365.1	3367.2	3358.6	3347.9	3292.0	3236.1
17.5°	3311.3	3285.5	3362.9	3378.0	3397.4	3436.1	3410.3	3408.1	3367.2	3328.5	3246.8
20°	3326.4	3315.6	3378.0	3457.6	3459.7	3466.2	3479.1	3446.8	3425.3	3358.6	3233.9
22.5°	3382.3	3418.9	3476.9	3511.3	3530.7	3535.0	3535.0	3470.5	3446.8	3393.1	3294.1
25°	3550.0	3511.3	3593.0	3633.9	3605.9	3599.5	3584.4	3526.4	3500.6	3453.3	3322.1
27.5°	3672.6	3670.4	3717.7	3773.6	3698.4	3713.4	3659.7	3642.5	3584.4	3558.6	3371.5
30°	3840.3	3887.6	3885.5	3902.7	3803.7	3820.9	3752.1	3719.9	3687.6	3702.7	3517.8
32.5°	4055.3	4038.1	4066.1	4053.2	3954.3	3969.3	3887.6	3838.1	3848.9	3894.1	3717.7
35°	4192.9	4175.7	4186.5	4186.5	4156.4	4139.2	4104.8	4040.3	4091.9	4175.7	3941.4
37.5°	4341.3	4362.8	4425.2	4412.3	4373.6	4373.6	4369.3	4324.1	4390.8	4597.2	4298.3
40°	4472.5	4530.5	4569.2	4595.0	4640.2	4640.2	4676.7	4650.9	4771.3	5102.5	4734.8
42.5°	4610.1	4612.2	4822.9	4842.3	4943.4	4986.4	5014.3	5035.8	5261.6	5631.4	5201.4
45°	4786.4	4797.1	4982.1	5130.4	5287.4	5302.4	5407.8	5478.8	5756.1	6209.8	5708.8
47.5°	5018.6	5005.7	5203.5	5440.1	5635.7	5738.9	5865.8	5943.2	6285.1	6837.7	6263.6
50°	5324.0	5285.2	5399.2	5771.2	6001.3	6115.2	6341.0	6470.0	6870.0	7437.6	6644.2
52.5°	5695.9	5631.4	5721.7	6128.1	6386.2	6616.2	6831.3	6975.3	7392.5	7902.1	6925.9
55°	6089.4	5956.1	5981.9	6506.6	6878.6	7095.7	7390.3	7540.8	7966.6	8319.2	7207.5
57.5°	6478.6	6394.8	6343.2	6870.0	7465.6	7674.1	7945.1	8140.7	8502.0	8689.0	7446.2
60°	6805.5	6784.0	6700.1	7433.3	8087.0	8265.5	8549.3	8669.7	8942.8	9030.9	7450.5
62.5°	7074.2	7001.1	7134.4	7887.0	8719.2	8921.3	9233.1	9243.8	9437.3	9243.8	7231.2
65°	7285.0	7289.3	7502.1	8435.3	9450.2	9749.1	10000.7	9972.7	9848.0	9116.9	6713.0
67.5°	7476.3	7558.0	7869.8	9037.4	10389.9	10671.6	10951.1	10581.2	9959.8	8523.5	5700.2
70°	7626.8	7708.5	8366.5	9770.6	11497.2	11910.1	11972.4	10822.1	9445.9	7220.4	4300.4
72.5°	7609.6	7758.0	8648.2	10355.5	12479.9	12836.8	12333.7	10144.7	7869.8	5033.7	2509.3
73°	7646.2	7719.3	8624.5	10518.9	12778.8	12957.2	12166.0	9931.9	7422.6	4515.5	2122.3
75°	6940.9	7188.2	8196.6	10252.3	12458.4	12426.1	11202.7	8276.2	5276.6	2371.7	1027.8
77.5°	5134.7	5291.7	6459.3	8431.0	10226.5	10020.0	8450.4	5289.5	2505.0	879.4	554.8
80°	2509.3	2631.9	3423.2	4868.1	6687.2	6704.4	5244.4	2752.3	1073.0	496.7	378.4
82.5°	1253.6	1326.7	1644.9	2139.5	3289.8	3446.8	2659.8	1565.4	664.4	281.7	215.0
85°	819.2	870.8	1012.8	1047.2	1395.5	1472.9	1238.5	1221.3	432.2	152.7	174.2
87.5°	544.0	552.6	621.4	529.0	559.1	537.6	597.8	769.8	126.9	64.5	47.3
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°	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0	3421.0
2.5°	3410.3	3380.1	3347.9	3302.7	3270.5	3221.0	3175.9	3156.5	3152.2	3154.4	3132.9
5°	3322.1	3279.1	3214.6	3122.1	3068.4	2986.7	2917.9	2881.3	2842.6	2849.0	2831.8
7.5°	3199.5	3152.2	3053.3	2945.8	2812.5	2696.4	2631.9	2541.6	2490.0	2451.3	2472.8
10°	3160.8	3079.1	2930.8	2782.4	2576.0	2423.3	2274.9	2171.7	2100.8	2032.0	2062.1
12.5°	3141.5	3059.8	2853.3	2634.0	2367.4	2135.2	1926.6	1799.7	1698.7	1638.5	1662.1
15°	3124.3	3023.2	2780.2	2470.6	2171.7	1866.4	1632.0	1464.3	1367.5	1309.5	1315.9
17.5°	3147.9	3003.9	2672.7	2311.5	1956.7	1629.9	1369.7	1195.5	1096.6	1060.1	1051.5
20°	3124.3	2982.4	2567.4	2152.4	1741.7	1404.1	1154.7	1010.6	941.8	911.7	905.2
22.5°	3132.9	2930.8	2457.7	1976.1	1541.7	1214.9	1010.6	900.9	847.2	832.1	836.4
25°	3173.7	2900.7	2348.0	1782.5	1343.9	1075.1	918.1	834.3	795.6	780.5	784.8
27.5°	3203.8	2926.5	2249.1	1599.8	1176.2	950.4	840.7	784.8	759.0	748.3	746.1
30°	3279.1	2941.5	2152.4	1436.3	1038.6	868.7	787.0	741.8	724.6	718.2	716.0
32.5°	3390.9	2969.5	2040.6	1285.8	937.5	791.3	744.0	705.3	701.0	694.5	696.7
35°	3573.7	3066.2	1915.8	1156.8	840.7	739.7	698.8	673.0	673.0	673.0	679.5
37.5°	3836.0	3201.7	1804.0	1034.3	778.4	694.5	660.1	651.5	647.2	653.7	658.0
40°	4173.6	3365.1	1713.7	937.5	724.6	664.4	634.3	630.0	627.9	625.7	630.0
42.5°	4543.4	3573.7	1636.3	862.2	685.9	632.2	610.7	606.4	597.8	602.1	608.5
45°	4911.1	3831.7	1567.5	802.0	660.1	615.0	584.9	582.7	578.4	576.3	587.0
47.5°	5319.7	4085.4	1546.0	765.5	640.8	589.2	567.7	565.5	552.6	550.5	559.1
50°	5637.9	4272.5	1569.7	748.3	612.8	569.8	554.8	544.0	533.3	522.5	522.5
52.5°	5857.2	4401.5	1586.9	735.4	597.8	544.0	524.7	520.4	509.6	498.9	494.6
55°	6055.0	4478.9	1591.2	737.5	582.7	513.9	501.0	498.9	492.4	475.2	470.9
57.5°	6121.7	4446.7	1505.2	718.2	574.1	494.6	477.3	481.6	473.0	458.0	455.8
60°	6115.2	4223.0	1309.5	692.4	554.8	473.0	451.5	464.4	464.4	447.2	445.1
62.5°	5743.2	3707.0	1070.8	642.9	533.3	451.5	427.9	447.2	453.7	442.9	440.8
65°	4971.3	3018.9	894.5	593.5	501.0	427.9	404.2	425.7	436.5	432.2	430.0
67.5°	4113.4	2309.3	744.0	529.0	460.1	395.6	376.3	391.3	397.8	399.9	402.1
70°	2907.1	1537.4	621.4	458.0	404.2	361.2	339.7	341.9	339.7	346.2	346.2
72.5°	1580.4	885.9	505.3	389.2	348.3	313.9	298.9	288.1	288.1	286.0	286.0
73°	1352.5	795.6	481.6	378.4	333.3	305.3	288.1	279.5	279.5	277.4	275.2
75°	759.0	582.7	412.8	324.7	288.1	266.6	253.7	240.8	238.7	238.7	238.7
77.5°	498.9	453.7	329.0	260.2	232.2	212.9	208.6	195.7	195.7	195.7	193.5
80°	374.1	356.9	253.7	197.8	178.5	163.4	159.1	150.5	148.4	139.8	141.9
82.5°	249.4	281.7	184.9	139.8	120.4	111.8	111.8	109.7	103.2	92.5	92.5
85°	197.8	230.1	133.3	86.0	71.0	60.2	62.4	60.2	58.1	47.3	45.2
87.5°	36.6	92.5	38.7	23.7	17.2	10.8	10.8	6.5	4.3	0.0	0.0
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)