

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: P481046

Luminaire Tested: **IFLD-S-SA3E-830-U-SL4**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481046
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

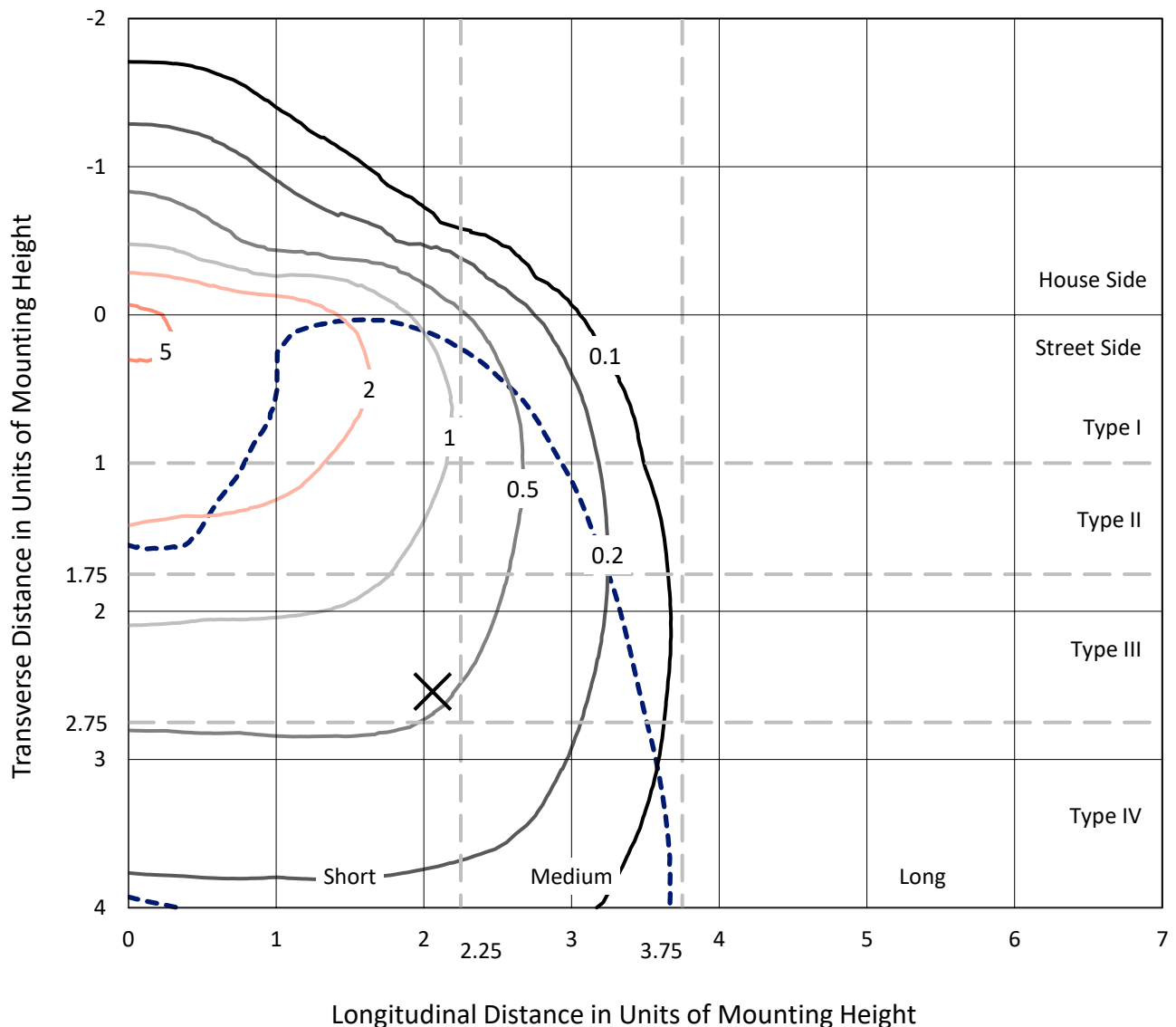
Lumens per Lamp: N/A
Luminaire Lumens: 20731.7 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

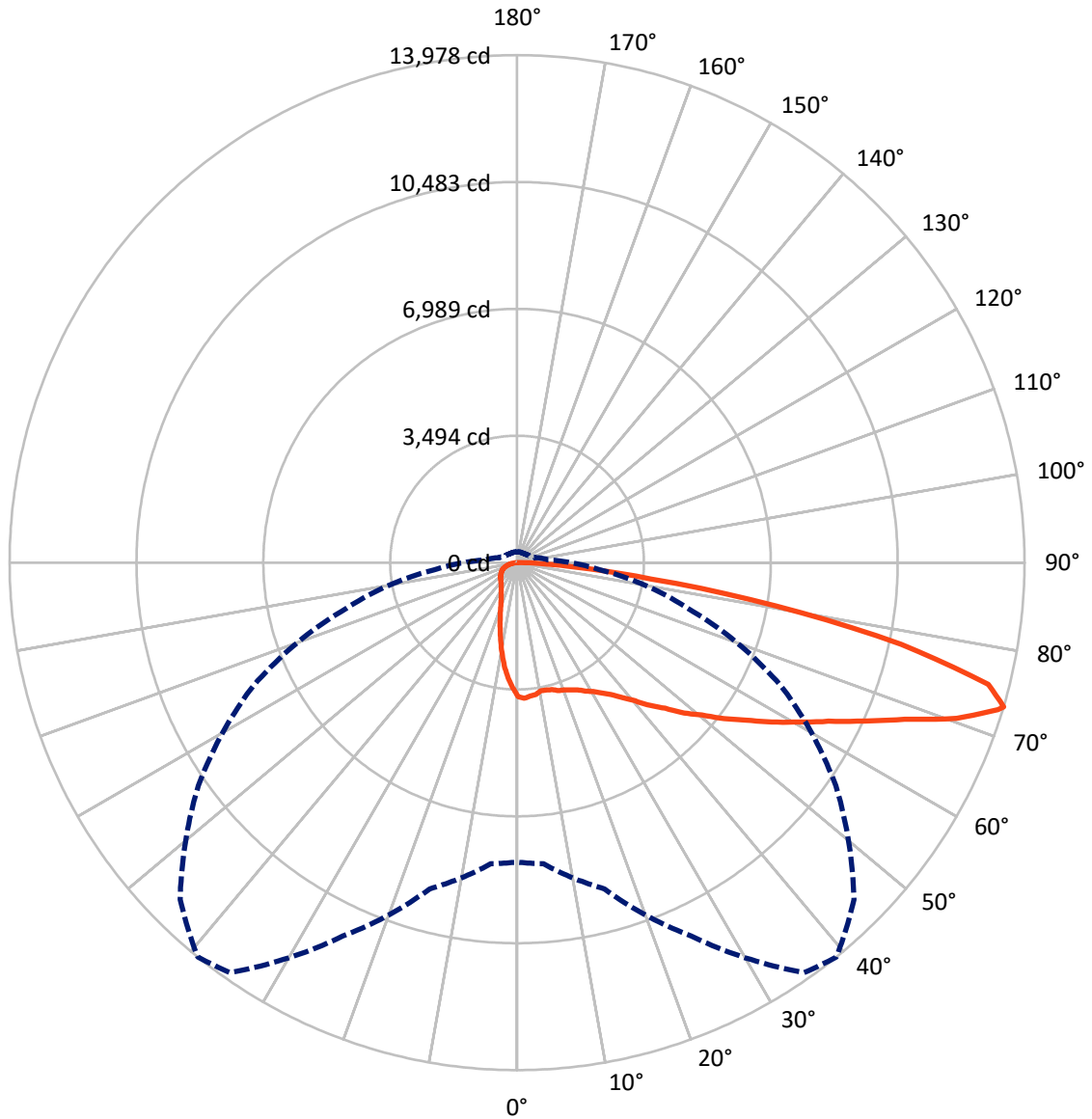
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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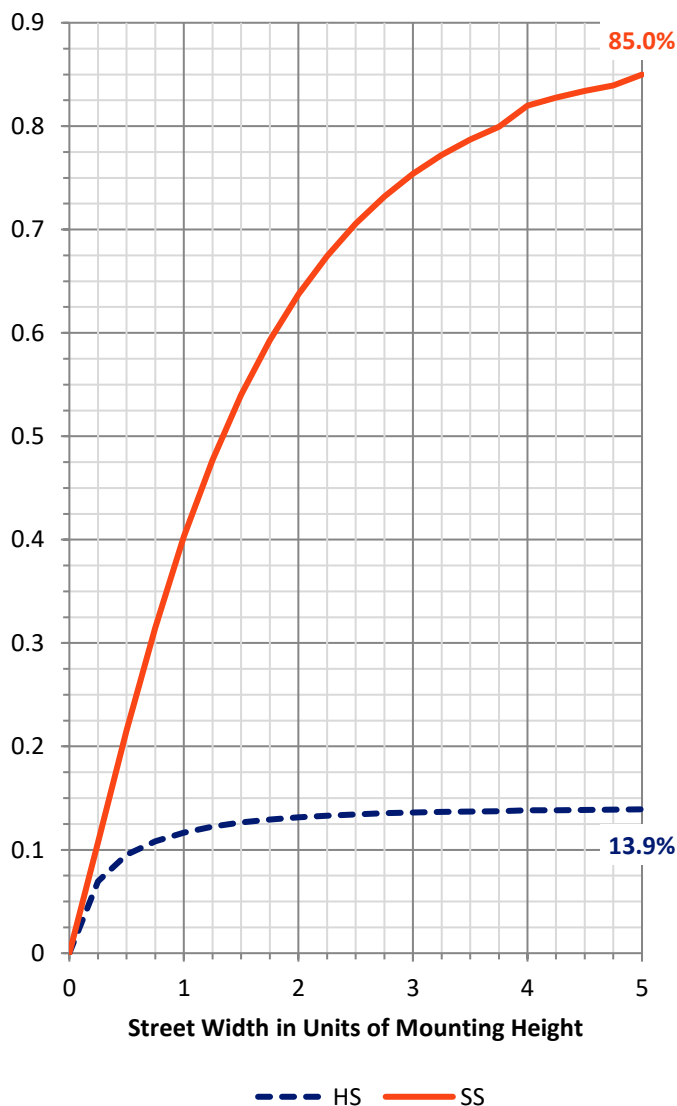
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2914.3	0.0	2914.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17817.4	0.0	17817.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	20731.7	0.0	20731.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	1.5
10°-20°	814.4	3.9
20°-30°	1244.5	6.0
30°-40°	1814.5	8.8
40°-50°	2741.9	13.2
50°-60°	3970.4	19.2
60°-70°	5044.5	24.3
70°-80°	4089.4	19.7
80°-90°	691.9	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°	20731.7	100.0
0°-180°	20731.7	100.0

Coefficient of Utilization

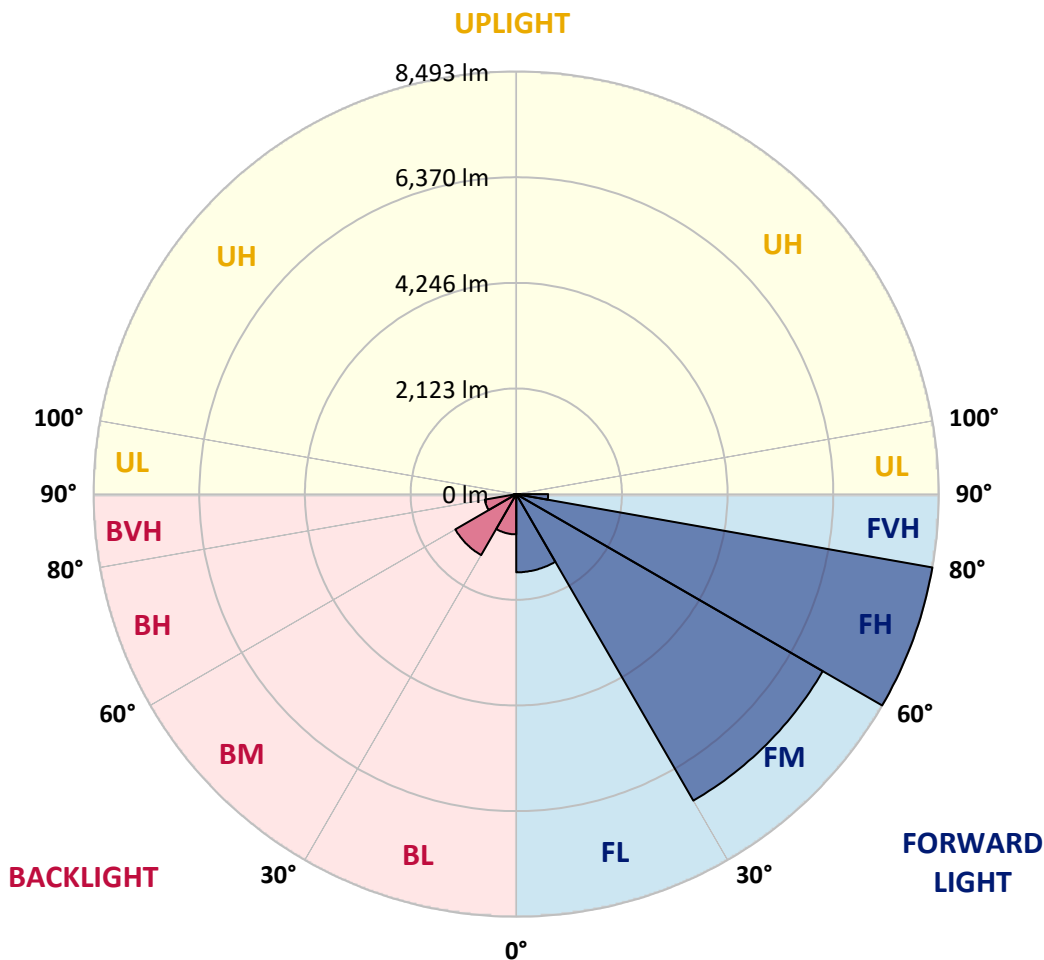


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.0	7.6			
FM (30°-60°)	7112.3	34.3			
FH (60°-80°)	8493.0	41.0			G4/12000
FVH (80°-90°)	641.1	3.1			G4/750
BL (0°-30°)	808.2	3.9	B2/1000		
BM (30°-60°)	1414.4	6.8	B2/2500		
BH (60°-80°)	641.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	50.8	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°	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4
2.5°	3778.5	3739.1	3746.0	3732.1	3746.0	3741.4	3734.4	3699.7	3734.4	3699.7	3690.4
5°	3727.5	3727.5	3750.7	3715.9	3720.5	3697.3	3720.5	3695.0	3671.8	3613.8	3597.6
7.5°	3711.3	3708.9	3711.3	3662.5	3685.7	3671.8	3648.6	3620.8	3574.4	3537.3	3483.9
10°	3599.9	3623.1	3597.6	3611.5	3630.1	3588.3	3586.0	3579.0	3558.2	3509.5	3477.0
12.5°	3539.6	3579.0	3593.0	3581.4	3597.6	3602.2	3588.3	3579.0	3553.5	3521.0	3428.3
15°	3565.1	3518.7	3558.2	3634.7	3618.5	3630.1	3632.4	3623.1	3611.5	3551.2	3490.9
17.5°	3572.1	3544.2	3627.7	3644.0	3664.9	3706.6	3678.8	3676.5	3632.4	3590.6	3502.5
20°	3588.3	3576.7	3644.0	3729.8	3732.1	3739.1	3753.0	3718.2	3695.0	3623.1	3488.6
22.5°	3648.6	3688.1	3750.7	3787.8	3808.7	3813.3	3813.3	3743.7	3718.2	3660.2	3553.5
25°	3829.5	3787.8	3875.9	3920.0	3889.9	3882.9	3866.7	3804.0	3776.2	3725.2	3583.7
27.5°	3961.8	3959.4	4010.5	4070.8	3989.6	4005.8	3947.8	3929.3	3866.7	3838.8	3637.0
30°	4142.7	4193.7	4191.4	4209.9	4103.3	4121.8	4047.6	4012.8	3978.0	3994.2	3794.8
32.5°	4374.6	4356.1	4386.2	4372.3	4265.6	4281.9	4193.7	4140.4	4152.0	4200.7	4010.5
35°	4523.1	4504.5	4516.1	4516.1	4483.7	4465.1	4428.0	4358.4	4414.1	4504.5	4251.7
37.5°	4683.1	4706.3	4773.6	4759.7	4717.9	4717.9	4713.3	4664.6	4736.5	4959.2	4636.7
40°	4824.6	4887.3	4929.0	4956.8	5005.5	5005.5	5045.0	5017.1	5147.0	5504.2	5107.6
42.5°	4973.1	4975.4	5202.7	5223.6	5332.6	5379.0	5409.1	5432.3	5675.9	6074.9	5610.9
45°	5163.3	5174.9	5374.4	5534.4	5703.7	5720.0	5833.6	5910.2	6209.4	6698.8	6158.4
47.5°	5413.8	5399.9	5613.3	5868.4	6079.5	6190.8	6327.7	6411.2	6780.0	7376.1	6756.8
50°	5743.2	5701.4	5824.3	6225.6	6473.8	6596.7	6840.3	6979.5	7410.9	8023.3	7167.4
52.5°	6144.4	6074.9	6172.3	6610.7	6889.0	7137.2	7369.2	7524.6	7974.5	8524.3	7471.2
55°	6568.9	6425.1	6452.9	7018.9	7420.2	7654.5	7972.2	8134.6	8593.9	8974.3	7775.1
57.5°	6988.7	6898.3	6842.6	7410.9	8053.4	8278.4	8570.7	8781.7	9171.4	9373.2	8032.5
60°	7341.3	7318.1	7227.7	8018.6	8723.8	8916.3	9222.5	9352.4	9646.9	9742.0	8037.2
62.5°	7631.3	7552.4	7696.2	8508.0	9405.7	9623.7	9960.1	9971.7	10180.4	9971.7	7800.6
65°	7858.6	7863.2	8092.8	9099.5	10194.3	10516.8	10788.1	10758.0	10623.5	9834.8	7241.6
67.5°	8065.0	8153.2	8489.5	9749.0	11208.0	11511.8	11813.4	11414.4	10744.1	9194.6	6149.1
70°	8227.4	8315.5	9025.3	10540.0	12402.5	12847.9	12915.2	11674.2	10189.7	7789.0	4639.1
72.5°	8208.8	8368.9	9329.2	11170.9	13462.6	13847.6	13304.8	10943.5	8489.5	5430.0	2706.9
73°	8248.3	8327.1	9303.6	11347.1	13785.0	13977.5	13123.9	10713.9	8007.0	4871.0	2289.4
75°	7487.4	7754.2	8842.1	11059.5	13439.4	13404.6	12084.8	8927.9	5692.1	2558.4	1108.7
77.5°	5539.0	5708.4	6967.9	9094.9	11031.7	10809.0	9115.8	5706.0	2702.3	948.7	598.4
80°	2706.9	2839.1	3692.7	5251.4	7213.7	7232.3	5657.3	2969.0	1157.4	535.8	408.2
82.5°	1352.3	1431.2	1774.4	2307.9	3548.9	3718.2	2869.3	1688.6	716.7	303.9	232.0
85°	883.7	939.4	1092.5	1129.6	1505.4	1588.9	1336.1	1317.5	466.2	164.7	187.9
87.5°	586.8	596.1	670.3	570.6	603.1	579.9	644.8	830.4	136.9	69.6	51.0
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°	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4	3690.4
2.5°	3678.8	3646.3	3611.5	3562.8	3528.0	3474.7	3425.9	3405.1	3400.4	3402.8	3379.6
5°	3583.7	3537.3	3467.7	3368.0	3310.0	3221.8	3147.6	3108.2	3066.4	3073.4	3054.8
7.5°	3451.5	3400.4	3293.7	3177.8	3033.9	2908.7	2839.1	2741.7	2686.0	2644.3	2667.5
10°	3409.7	3321.6	3161.5	3001.5	2778.8	2614.1	2454.1	2342.7	2266.2	2192.0	2224.4
12.5°	3388.8	3300.7	3078.0	2841.4	2553.8	2303.3	2078.3	1941.4	1832.4	1767.5	1793.0
15°	3370.3	3261.3	2999.2	2665.1	2342.7	2013.4	1760.5	1579.6	1475.2	1412.6	1419.6
17.5°	3395.8	3240.4	2883.2	2493.5	2110.8	1758.2	1477.5	1289.7	1183.0	1143.5	1134.3
20°	3370.3	3217.2	2769.5	2321.9	1878.8	1514.7	1245.6	1090.2	1016.0	983.5	976.5
22.5°	3379.6	3161.5	2651.2	2131.6	1663.1	1310.5	1090.2	971.9	913.9	897.7	902.3
25°	3423.6	3129.0	2532.9	1922.9	1449.7	1159.8	990.4	900.0	858.2	842.0	846.6
27.5°	3456.1	3156.9	2426.2	1725.7	1268.8	1025.2	906.9	846.6	818.8	807.2	804.9
30°	3537.3	3173.1	2321.9	1549.4	1120.3	937.1	848.9	800.2	781.7	774.7	772.4
32.5°	3657.9	3203.3	2201.2	1387.1	1011.3	853.6	802.6	760.8	756.2	749.2	751.5
35°	3855.1	3307.7	2066.7	1247.9	906.9	797.9	753.8	726.0	726.0	726.0	733.0
37.5°	4138.0	3453.8	1946.1	1115.7	839.7	749.2	712.1	702.8	698.2	705.1	709.8
40°	4502.2	3630.1	1848.7	1011.3	781.7	716.7	684.3	679.6	677.3	675.0	679.6
42.5°	4901.2	3855.1	1765.2	930.1	739.9	681.9	658.7	654.1	644.8	649.5	656.4
45°	5297.8	4133.4	1690.9	865.2	712.1	663.4	630.9	628.6	624.0	621.6	633.2
47.5°	5738.5	4407.1	1667.7	825.8	691.2	635.6	612.4	610.0	596.1	593.8	603.1
50°	6081.8	4608.9	1693.3	807.2	661.1	614.7	598.4	586.8	575.2	563.6	563.6
52.5°	6318.4	4748.1	1711.8	793.3	644.8	586.8	566.0	561.3	549.7	538.1	533.5
55°	6531.8	4831.6	1716.5	795.6	628.6	554.4	540.5	538.1	531.2	512.6	508.0
57.5°	6603.7	4796.8	1623.7	774.7	619.3	533.5	514.9	519.6	510.3	494.1	491.7
60°	6596.7	4555.6	1412.6	746.9	598.4	510.3	487.1	501.0	501.0	482.5	480.1
62.5°	6195.5	3998.9	1155.1	693.5	575.2	487.1	461.6	482.5	489.4	477.8	475.5
65°	5362.8	3256.6	964.9	640.2	540.5	461.6	436.1	459.3	470.9	466.2	463.9
67.5°	4437.3	2491.2	802.6	570.6	496.4	426.8	405.9	422.2	429.1	431.4	433.8
70°	3136.0	1658.5	670.3	494.1	436.1	389.7	366.5	368.8	366.5	373.4	373.4
72.5°	1704.9	955.6	545.1	419.8	375.8	338.7	322.4	310.8	310.8	308.5	308.5
73°	1459.0	858.2	519.6	408.2	359.5	329.4	310.8	301.5	301.5	299.2	296.9
75°	818.8	628.6	445.4	350.2	310.8	287.6	273.7	259.8	257.5	257.5	257.5
77.5°	538.1	489.4	354.9	280.7	250.5	229.6	225.0	211.1	211.1	211.1	208.8
80°	403.6	385.0	273.7	213.4	192.5	176.3	171.6	162.4	160.0	150.8	153.1
82.5°	269.1	303.9	199.5	150.8	129.9	120.6	120.6	118.3	111.3	99.7	99.7
85°	213.4	248.2	143.8	92.8	76.5	64.9	67.3	64.9	62.6	51.0	48.7
87.5°	39.4	99.7	41.8	25.5	18.6	11.6	11.6	7.0	4.6	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)