

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: P478693

Luminaire Tested: **IFLD-L-SA8A-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478693
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

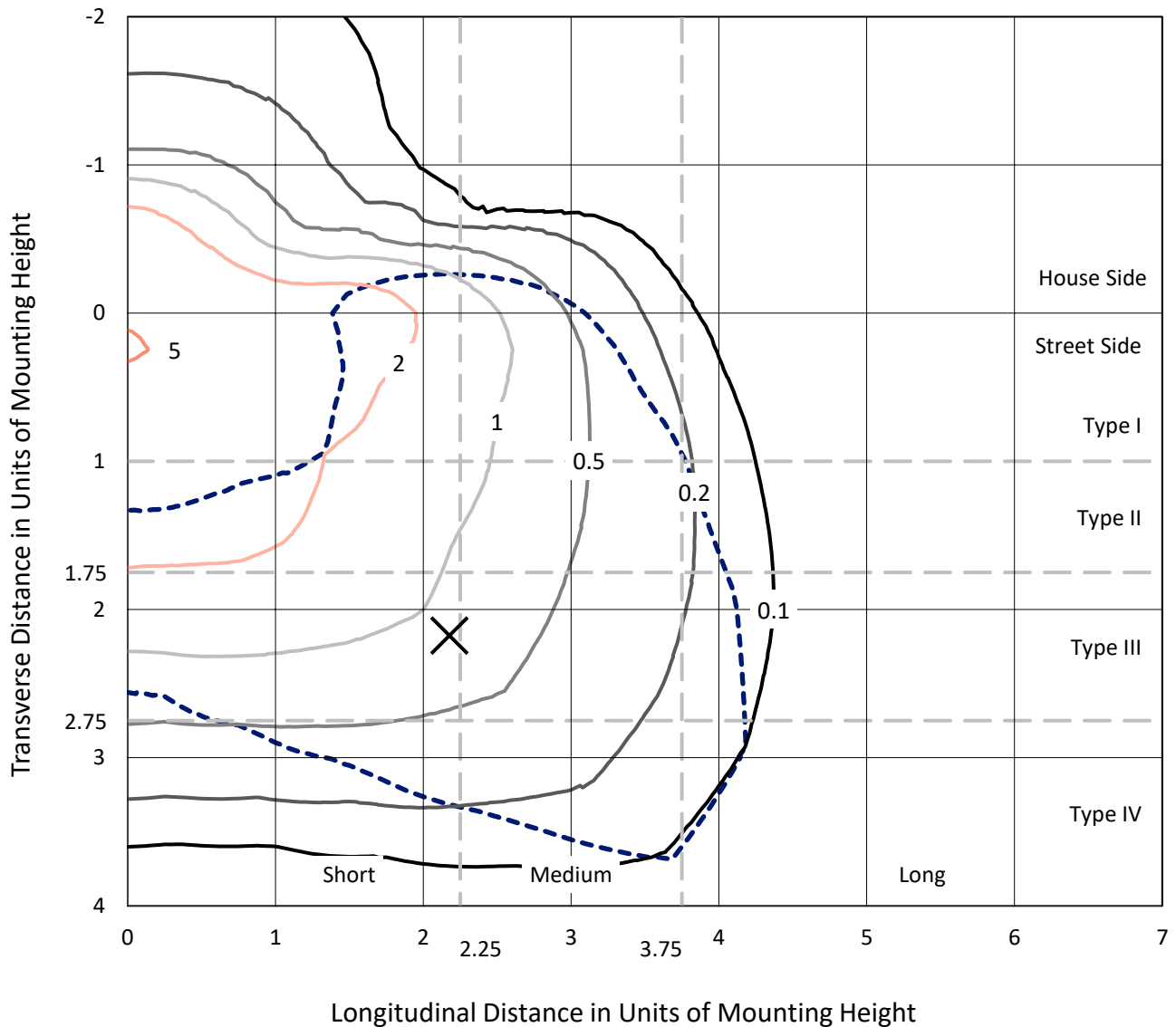
Lumens per Lamp: N/A
Luminaire Lumens: 25453.2 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

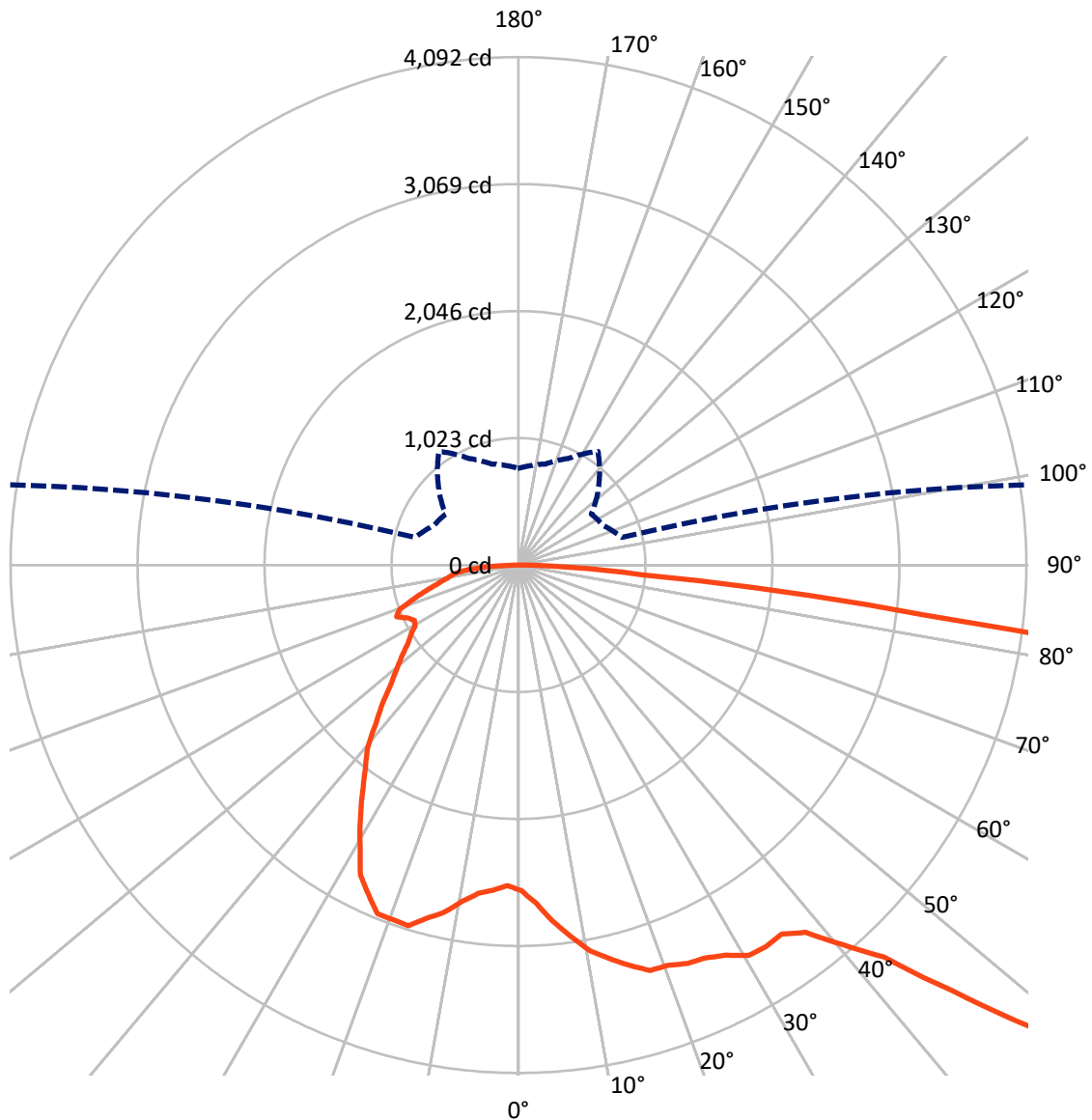
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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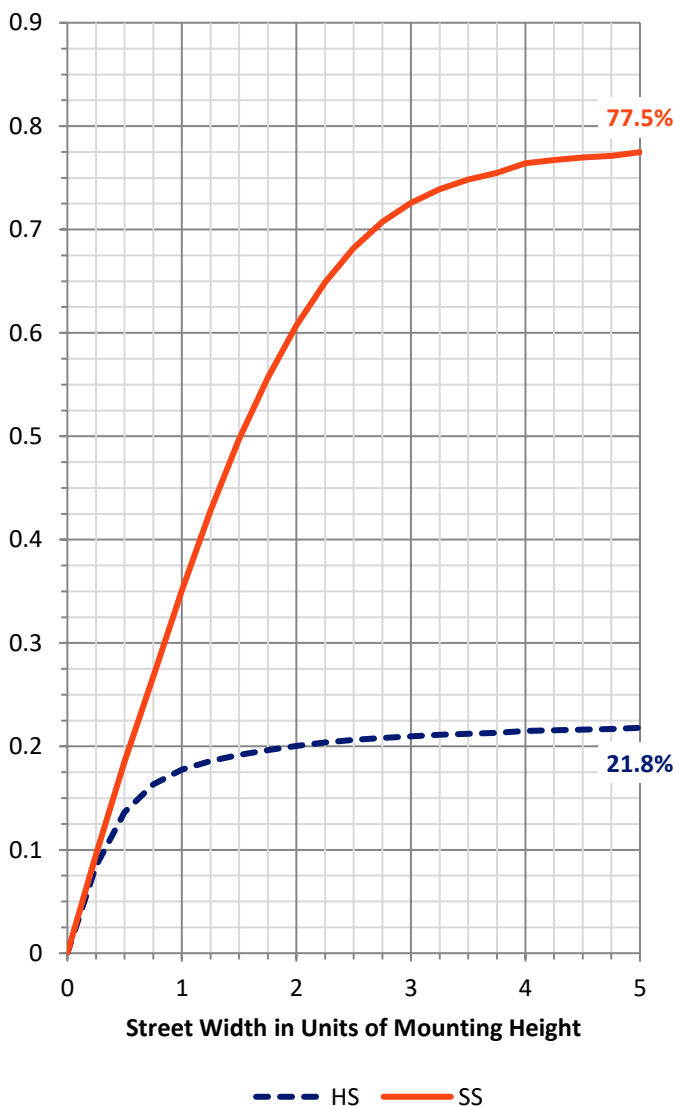
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5666.0	0.0	5666.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	19787.2	0.0	19787.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	25453.2	0.0	25453.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	1.1
10°-20°	892.4	3.5
20°-30°	1507.0	5.9
30°-40°	2085.5	8.2
40°-50°	2983.0	11.7
50°-60°	4811.3	18.9
60°-70°	7096.0	27.9
70°-80°	5152.9	20.2
80°-90°	656.9	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°	25453.2	100.0
0°-180°	25453.2	100.0

Coefficient of Utilization

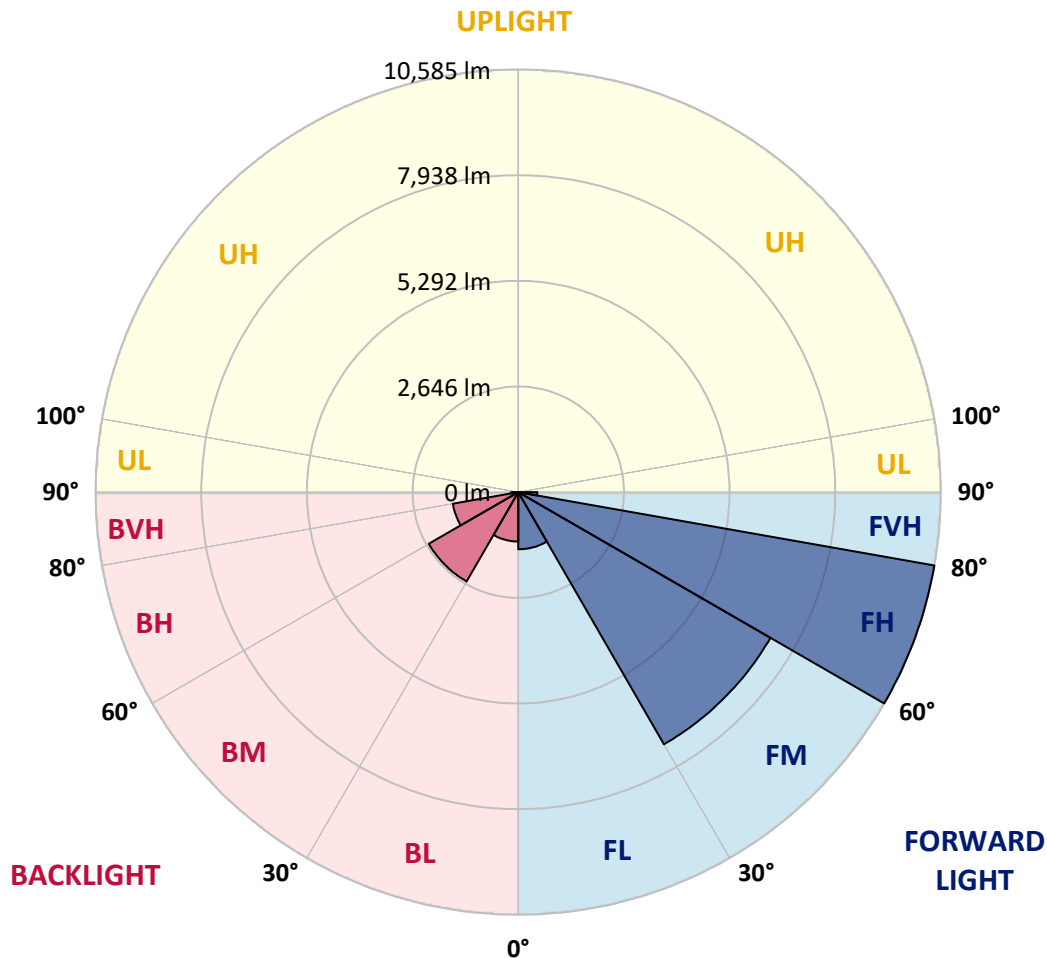


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.5	5.6			
FM (30°-60°)	7294.0	28.7			
FH (60°-80°)	10584.6	41.6			G4/12000
FVH (80°-90°)	478.1	1.9			G3/500
BL (0°-30°)	1237.1	4.9	B3/2500		
BM (30°-60°)	2585.8	10.2	B3/5000		
BH (60°-80°)	1664.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	178.8	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°	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2
2.5°	2761.2	2777.7	2761.2	2758.5	2731.0	2711.8	2728.3	2703.6	2676.1	2665.1	2640.4
5°	3013.7	3016.5	2986.3	2989.0	2931.4	2871.0	2882.0	2807.9	2728.3	2698.1	2648.7
7.5°	3271.7	3241.5	3197.6	3183.9	3093.3	3027.4	3019.2	2953.3	2829.8	2761.2	2692.6
10°	3439.2	3450.1	3378.8	3318.4	3241.5	3161.9	3159.2	3035.7	2964.3	2862.8	2774.9
12.5°	3587.4	3590.1	3529.7	3433.7	3337.6	3238.8	3252.5	3197.6	3076.8	2980.8	2892.9
15°	3702.6	3686.2	3620.3	3532.5	3430.9	3354.1	3345.8	3299.2	3197.6	3118.0	2972.5
17.5°	3735.6	3727.3	3661.5	3568.2	3469.3	3411.7	3433.7	3356.8	3315.6	3244.3	3104.3
20°	3672.5	3653.2	3642.3	3538.0	3466.6	3461.1	3441.9	3458.4	3389.7	3323.9	3222.3
22.5°	3557.2	3548.9	3543.5	3461.1	3428.2	3452.9	3485.8	3510.5	3499.5	3436.4	3321.1
25°	3439.2	3477.6	3441.9	3403.5	3450.1	3513.3	3505.0	3584.6	3584.6	3565.4	3469.3
27.5°	3521.5	3496.8	3469.3	3450.1	3466.6	3565.4	3559.9	3656.0	3691.7	3656.0	3546.2
30°	3727.3	3702.6	3623.0	3538.0	3516.0	3623.0	3650.5	3735.6	3752.1	3664.2	3570.9
32.5°	4114.4	4100.6	3974.4	3724.6	3590.1	3650.5	3664.2	3760.3	3746.6	3691.7	3653.2
35°	4688.0	4641.3	4465.7	4043.0	3746.6	3686.2	3650.5	3727.3	3779.5	3752.1	3716.4
37.5°	5316.5	5264.4	5047.6	4512.3	4029.3	3782.2	3754.8	3817.9	3878.3	3864.6	3790.5
40°	5917.6	5917.6	5722.8	5099.7	4449.2	4015.5	4021.0	3949.7	4004.6	3979.9	3993.6
42.5°	6510.5	6488.5	6409.0	5788.6	4899.3	4405.3	4317.5	4139.1	4237.9	4229.6	4248.8
45°	7111.6	7095.1	7073.2	6430.9	5544.4	4932.3	4885.6	4564.5	4655.1	4616.6	4699.0
47.5°	7591.9	7611.1	7611.1	7147.3	6233.3	5634.9	5566.3	5058.5	5231.5	5250.7	5269.9
50°	8000.9	8009.1	8000.9	7830.7	7001.8	6439.1	6299.2	5783.2	5956.1	6107.0	6282.7
52.5°	8566.3	8577.3	8538.9	8473.0	8044.8	7284.5	7128.1	6554.4	6908.5	7067.7	7383.3
55°	9263.5	9181.1	9109.8	9159.2	9046.6	8215.0	8053.0	7350.4	7882.9	8094.2	8725.5
57.5°	9392.5	9463.8	9645.0	10037.5	10199.4	9120.7	9027.4	8327.5	8983.5	9167.4	10221.4
60°	9848.1	9730.1	10174.7	11025.6	11206.7	10301.0	10204.9	9398.0	10078.7	10270.8	11602.0
62.5°	10147.3	10141.8	10800.5	11810.6	12222.3	11525.1	11330.3	10789.5	11261.6	11448.3	13106.1
65°	10059.4	10139.0	11308.3	12271.7	13070.4	12916.7	12804.2	11986.3	12609.3	12592.8	14086.0
67.5°	9258.0	9483.1	10987.2	12603.8	14333.0	14613.0	14577.3	13668.8	13704.5	13355.9	14522.4
70°	8146.4	8069.5	9628.5	12258.0	14964.3	16624.8	16616.6	14920.4	14689.8	13523.3	13270.8
72°	6258.0	6172.9	7454.7	10526.1	14632.2	17429.1	17676.1	15787.7	14678.8	12828.9	10962.5
72.5°	5681.6	5607.5	6883.8	9908.5	14264.4	17637.7	17522.4	15820.6	14563.6	12502.3	10240.6
75°	2615.7	2530.6	3439.2	6065.9	11127.1	15628.5	16021.0	14805.1	12719.1	9952.4	6134.5
77.5°	779.5	754.8	1106.1	2448.3	6466.6	11514.2	11665.1	11171.1	8879.2	5451.0	2275.4
80°	433.7	436.4	570.9	916.7	2843.5	6656.0	7199.4	6900.3	4355.9	1800.5	757.5
82.5°	241.5	255.3	356.8	543.5	1306.5	3054.9	3288.2	3170.2	1575.5	845.4	414.5
85°	126.3	131.7	186.6	290.9	741.1	966.1	993.6	1065.0	817.9	576.4	222.3
87.5°	49.4	49.4	68.6	120.8	274.5	299.2	269.0	326.6	469.3	373.3	109.8
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°	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2	2621.2
2.5°	2662.4	2640.4	2637.7	2602.0	2613.0	2582.8	2585.5	2580.0	2582.8	2577.3	2563.6
5°	2648.7	2632.2	2585.5	2615.7	2588.3	2626.7	2656.9	2645.9	2654.2	2651.4	2654.2
7.5°	2667.9	2645.9	2640.4	2624.0	2648.7	2665.1	2689.8	2758.5	2753.0	2761.2	2777.7
10°	2725.5	2700.8	2684.3	2709.1	2695.3	2747.5	2774.9	2810.6	2873.7	2876.5	2843.5
12.5°	2838.1	2821.6	2788.6	2794.1	2840.8	2857.3	2873.7	2895.7	2936.9	2928.6	2958.8
15°	2967.1	2931.4	2912.2	2906.7	2917.7	2936.9	2934.1	2956.1	2978.0	2997.2	2989.0
17.5°	3060.4	3013.7	3019.2	3046.7	3043.9	3038.4	3002.7	2991.8	3002.7	3013.7	3008.2
20°	3156.4	3161.9	3120.8	3096.1	3085.1	3030.2	3002.7	2969.8	2936.9	2953.3	2978.0
22.5°	3277.2	3252.5	3192.1	3118.0	3063.1	3030.2	2945.1	2887.5	2887.5	2903.9	2895.7
25°	3414.4	3362.3	3258.0	3123.5	3054.9	2914.9	2854.5	2846.3	2824.3	2849.0	2860.0
27.5°	3521.5	3474.8	3332.1	3104.3	2914.9	2802.4	2766.7	2755.7	2791.4	2794.1	2838.1
30°	3565.4	3551.7	3343.1	3054.9	2772.2	2591.0	2569.1	2618.5	2656.9	2714.5	2717.3
32.5°	3623.0	3628.5	3359.6	2939.6	2585.5	2404.4	2371.4	2431.8	2541.6	2588.3	2624.0
35°	3719.1	3746.6	3345.8	2796.9	2387.9	2215.0	2209.5	2226.0	2333.0	2415.4	2462.0
37.5°	3886.5	3881.1	3343.1	2626.7	2231.5	2050.3	2006.4	2011.9	2083.3	2151.9	2143.6
40°	4111.6	4089.7	3334.9	2404.4	2028.4	1910.3	1836.2	1808.8	1803.3	1784.1	1789.6
42.5°	4419.0	4375.1	3332.1	2179.3	1844.5	1718.2	1666.1	1594.7	1542.5	1443.7	1449.2
45°	4847.2	4770.3	3260.7	1968.0	1663.3	1559.0	1479.4	1427.3	1314.7	1191.2	1191.2
47.5°	5508.7	5258.9	3263.5	1734.7	1487.6	1402.6	1347.7	1257.1	1136.3	1037.5	1026.5
50°	6483.1	5912.2	3170.2	1550.8	1344.9	1287.3	1229.6	1125.3	1010.1	941.4	949.7
52.5°	7740.1	6886.5	3167.4	1386.1	1232.4	1191.2	1128.1	1034.8	949.7	905.8	889.3
55°	9238.8	8176.6	3266.2	1251.6	1117.1	1095.1	1067.7	990.8	908.5	870.1	867.3
57.5°	10773.1	9436.4	3425.4	1155.5	1018.3	1034.8	1015.6	955.2	889.3	845.4	839.9
60°	12137.2	10435.5	3104.3	1040.3	930.5	966.1	993.6	941.4	905.8	903.0	883.8
62.5°	13166.5	10863.7	2360.5	952.4	883.8	949.7	1023.8	1056.7	1040.3	1062.2	1065.0
65°	13542.5	10605.6	1624.9	905.8	848.1	988.1	1152.8	1141.8	1045.7	1004.6	1026.5
67.5°	13015.5	9559.9	1204.9	850.9	823.4	1067.7	1226.9	1089.7	944.2	938.7	922.2
70°	11193.0	8102.5	982.6	793.2	782.2	1023.8	1194.0	1010.1	889.3	853.6	837.1
72°	8917.6	6310.1	861.8	752.1	716.4	914.0	1117.1	946.9	842.6	798.7	779.5
72.5°	8140.9	5849.0	845.4	732.8	702.7	889.3	1078.7	927.7	831.7	793.2	763.0
75°	4465.7	2994.5	743.8	672.5	592.9	768.5	999.1	870.1	785.0	730.1	724.6
77.5°	1660.6	1161.0	642.3	595.6	513.3	664.2	908.5	826.2	713.6	645.0	631.3
80°	636.8	612.1	524.2	502.3	430.9	581.9	837.1	741.1	606.6	538.0	516.0
82.5°	387.0	356.8	398.0	392.5	329.4	529.7	787.7	694.4	538.0	436.4	422.7
85°	211.3	211.3	277.2	266.2	230.6	422.7	595.6	461.1	340.3	280.0	285.5
87.5°	93.3	109.8	148.2	140.0	126.3	238.8	290.9	244.3	170.2	115.3	123.5
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)