

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: P478298

Luminaire Tested: **IFLD-L-SA7A-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478298
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

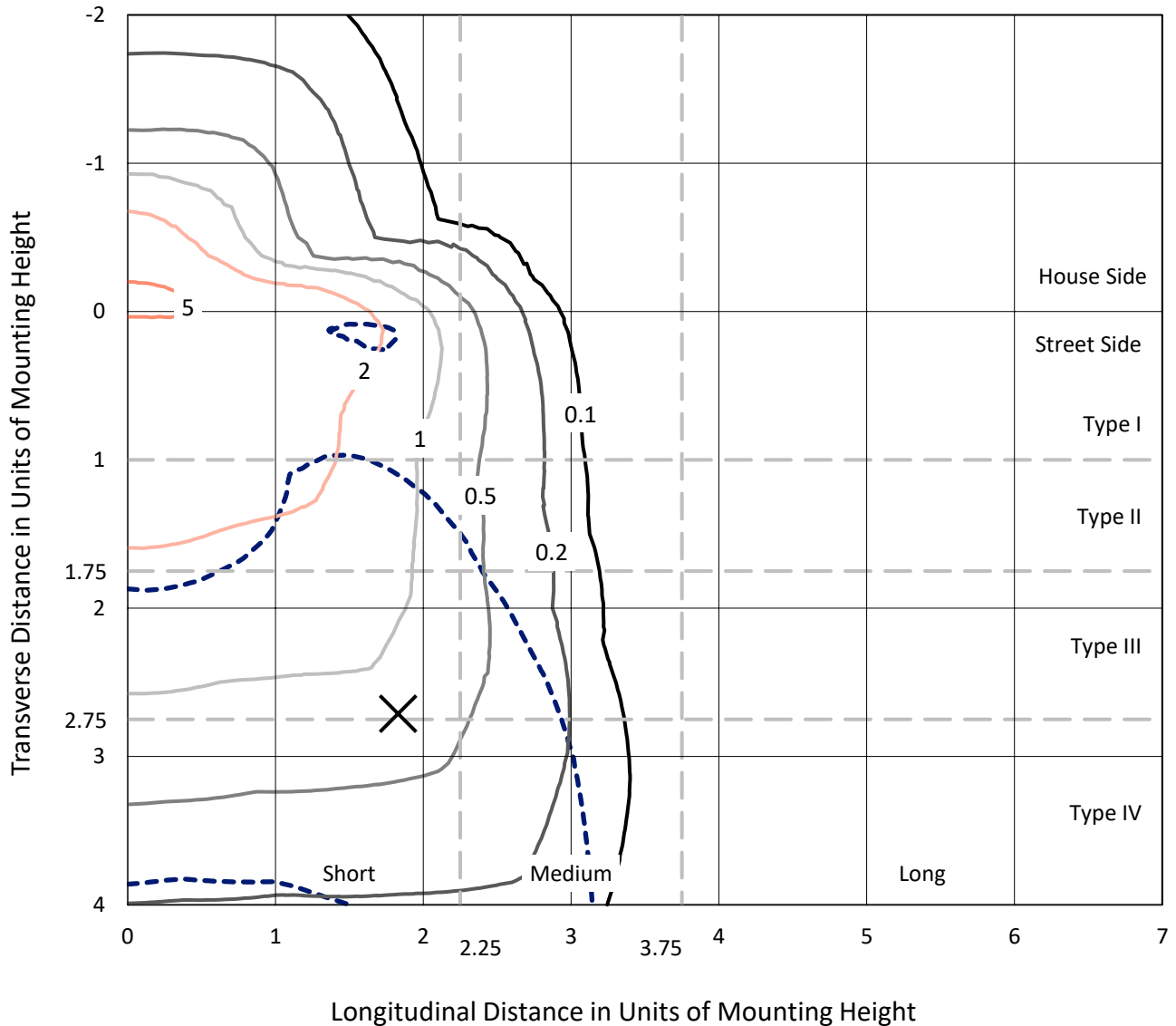
Lumens per Lamp: N/A
Luminaire Lumens: 23572.5 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

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Iso-Footcandle Lines of Horizontal Illumination

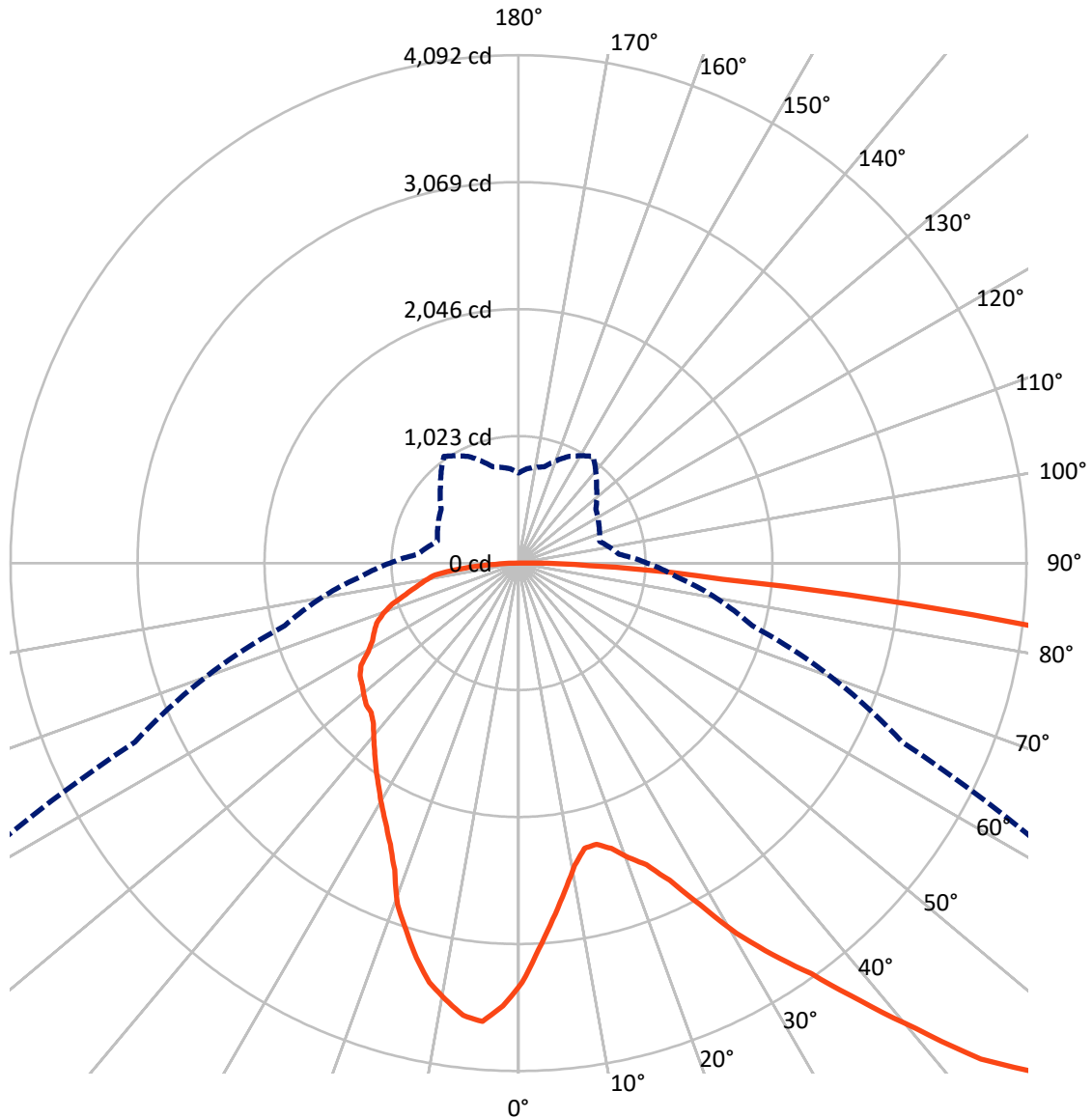
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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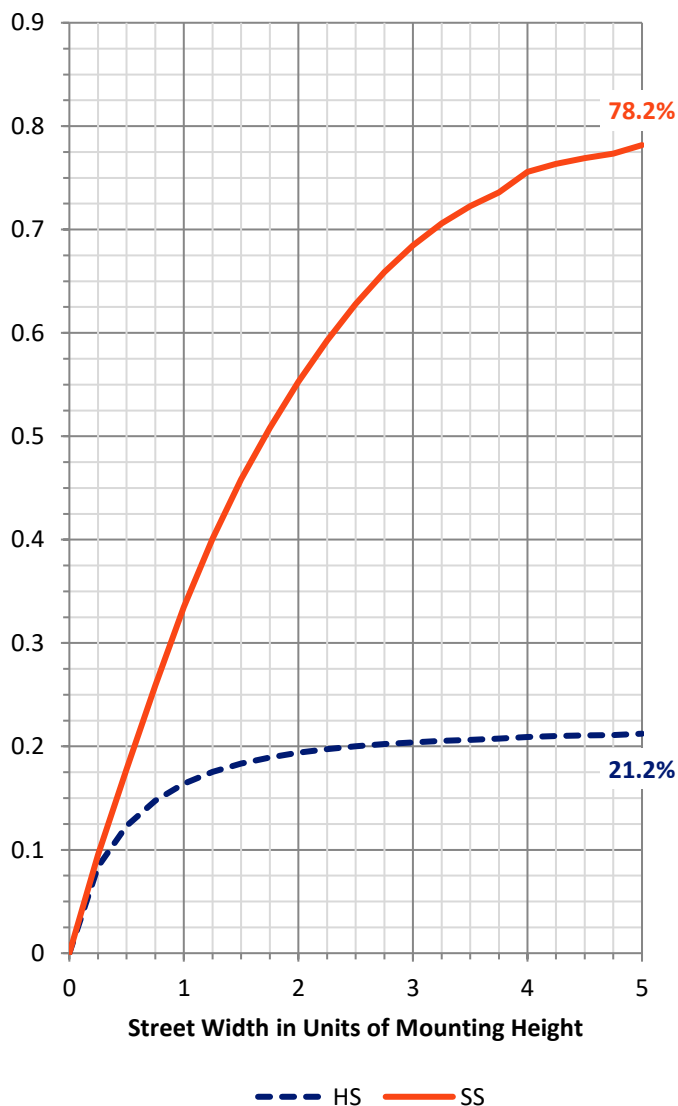
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5092.0	0.0	5092.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18480.6	0.0	18480.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	23572.5	0.0	23572.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	1.3
10°-20°	872.9	3.7
20°-30°	1436.7	6.1
30°-40°	2148.5	9.1
40°-50°	3185.1	13.5
50°-60°	4590.1	19.5
60°-70°	5857.6	24.8
70°-80°	4558.2	19.3
80°-90°	611.5	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°	23572.5	100.0
0°-180°	23572.5	100.0

Coefficient of Utilization



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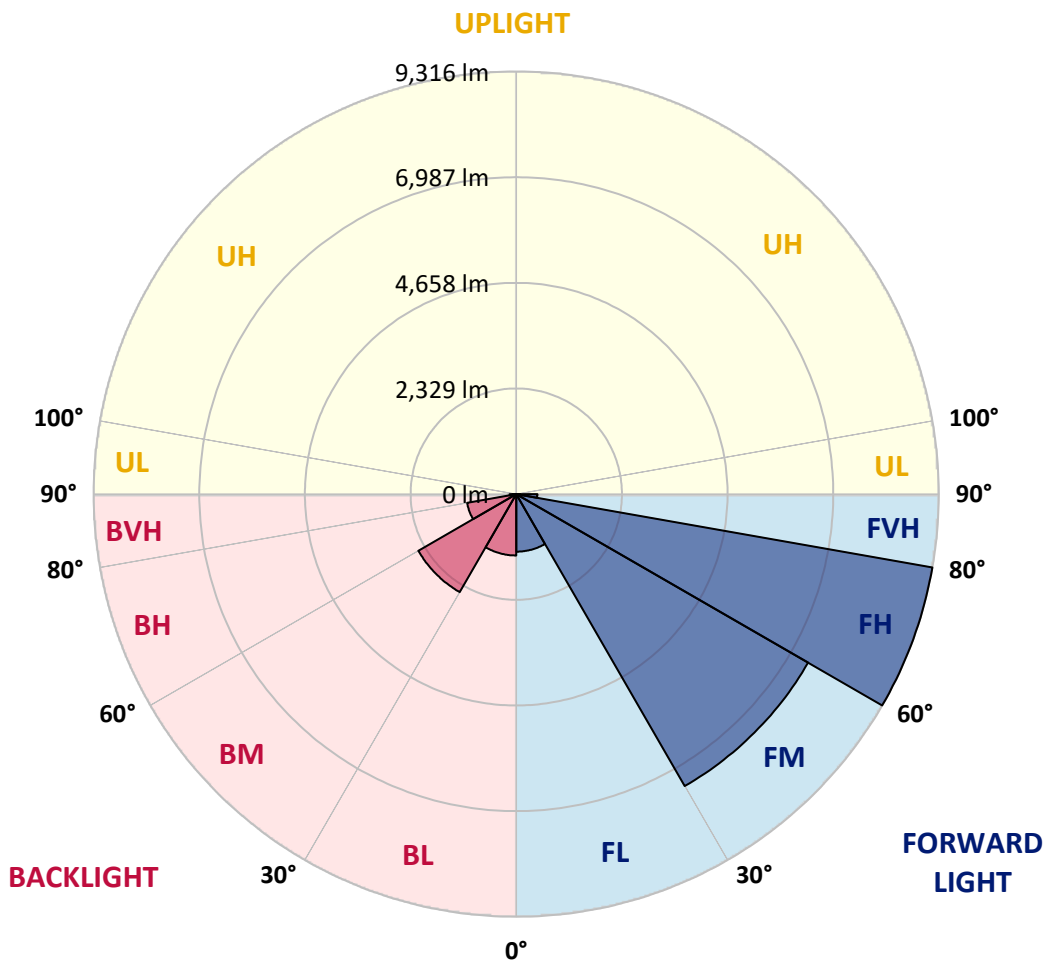
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.6	5.4			
FM (30°-60°)	7430.2	31.5			
FH (60°-80°)	9316.3	39.5			G4/12000
FVH (80°-90°)	465.5	2.0			G3/500
BL (0°-30°)	1352.9	5.7	B3/2500		
BM (30°-60°)	2493.6	10.6	B2/2500		
BH (60°-80°)	1099.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	146.0	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5
2.5°	3028.1	3038.1	3070.5	3077.9	3112.8	3092.9	3135.3	3210.0	3252.4	3314.7	3389.5
5°	2788.8	2746.5	2766.4	2843.7	2883.5	2893.5	2938.4	3065.5	3145.2	3237.4	3377.0
7.5°	2507.2	2499.7	2539.6	2589.4	2669.2	2676.7	2776.4	2888.5	3053.0	3257.4	3421.9
10°	2315.3	2347.7	2370.1	2422.5	2477.3	2477.3	2604.4	2798.8	2985.7	3182.6	3431.8
12.5°	2305.3	2285.4	2290.4	2317.8	2357.7	2407.5	2527.1	2701.6	2938.4	3167.7	3474.2
15°	2337.7	2345.2	2300.3	2335.2	2350.2	2367.6	2499.7	2696.6	2908.5	3220.0	3546.5
17.5°	2509.7	2467.3	2397.5	2365.1	2417.5	2417.5	2507.2	2661.7	2913.4	3247.4	3651.1
20°	2644.3	2644.3	2529.6	2494.7	2532.1	2524.7	2587.0	2701.6	2938.4	3302.2	3768.3
22.5°	2871.1	2903.5	2714.1	2641.8	2639.3	2659.2	2714.1	2811.3	3008.1	3379.5	3880.4
25°	3197.6	3205.0	2985.7	2910.9	2831.2	2863.6	2873.6	2970.8	3070.5	3469.2	4007.5
27.5°	3561.4	3556.4	3354.6	3167.7	3115.3	3122.8	3068.0	3132.8	3162.7	3496.6	4189.5
30°	3965.2	3920.3	3768.3	3504.1	3461.7	3414.4	3294.8	3292.3	3354.6	3651.1	4441.2
32.5°	4229.4	4172.0	4067.4	3877.9	3760.8	3765.8	3576.4	3573.9	3519.1	3820.6	4660.5
35°	4488.5	4401.3	4373.9	4179.5	4062.4	4074.8	3922.8	3902.9	3803.2	4077.3	5021.9
37.5°	4800.1	4722.8	4765.2	4618.1	4473.6	4413.8	4344.0	4319.1	4189.5	4438.7	5515.4
40°	5144.0	5119.1	5091.7	5019.4	4932.2	4937.2	4862.4	4837.5	4645.6	4874.8	5988.9
42.5°	5607.6	5512.9	5370.8	5418.2	5463.0	5510.4	5485.4	5420.6	5221.3	5318.5	6517.2
45°	6038.7	5914.1	5652.4	5667.4	5851.8	5889.2	6190.8	6183.3	5782.0	5881.7	7117.9
47.5°	6330.3	6273.0	6116.0	6098.5	6362.7	6360.2	6903.5	6903.5	6372.7	6442.5	7763.4
50°	6764.0	6614.4	6547.1	6634.4	6769.0	6861.2	7631.3	7678.6	6953.4	7028.1	8608.2
52.5°	7272.4	7085.5	6916.0	7140.3	7379.6	7439.4	8351.5	8331.6	7399.5	7708.5	9597.7
55°	7693.6	7598.9	7481.7	7611.3	8002.6	8077.4	9074.3	8889.9	7845.6	8271.8	10073.7
57.5°	8184.6	8241.9	8266.8	8234.4	8700.5	8817.6	9899.2	9370.9	8229.4	8650.6	10352.8
60°	8924.8	8959.6	8992.0	9069.3	9562.8	9727.3	10552.2	9974.0	8471.2	8869.9	10375.2
62.5°	10051.3	9916.7	9988.9	10255.6	10651.9	10838.8	11514.2	10397.7	8655.6	9002.0	9642.5
65°	11339.7	11157.8	11083.0	11427.0	12453.8	12304.2	12715.5	10714.2	8388.9	8508.5	8177.1
67.5°	12645.7	12665.6	12473.7	13164.1	14422.7	14422.7	13832.0	10866.2	7666.2	6896.1	5734.7
70°	13682.5	13744.8	13849.4	15187.8	17181.6	17483.1	15215.2	10243.2	6193.2	4590.7	3135.3
72.5°	13667.5	13480.6	14016.4	16481.3	19688.8	19437.1	15504.3	8099.8	3865.5	2248.0	1438.0
73°	13361.0	13203.9	13789.6	16468.8	19791.0	19554.2	15292.5	7466.8	3409.4	1948.9	1278.5
75°	10911.1	10627.0	11623.9	14916.1	18310.6	18492.5	12992.1	4869.9	1869.2	1201.3	899.7
77.5°	4974.5	5099.1	6397.6	10006.4	14111.1	14325.5	8540.9	2106.0	1024.3	842.4	662.9
80°	1597.5	1677.3	2489.8	4974.5	8845.0	9231.3	3947.7	957.0	730.2	645.5	496.0
82.5°	610.6	608.1	1044.3	2068.6	4192.0	4438.7	1443.0	583.2	543.3	476.0	351.4
85°	214.3	224.3	393.8	817.5	1649.9	1727.1	500.9	324.0	376.3	319.0	201.9
87.5°	74.8	77.3	139.6	296.6	568.2	600.6	139.6	129.6	186.9	184.4	102.2
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°	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5	3379.5
2.5°	3414.4	3436.8	3444.3	3534.0	3534.0	3534.0	3568.9	3568.9	3558.9	3534.0	3593.8
5°	3429.3	3469.2	3546.5	3623.7	3643.7	3661.1	3708.5	3668.6	3683.5	3658.6	3681.1
7.5°	3471.7	3526.5	3671.1	3718.4	3686.0	3723.4	3673.6	3646.2	3618.7	3628.7	3593.8
10°	3544.0	3613.8	3681.1	3768.3	3706.0	3668.6	3566.4	3541.5	3454.3	3424.4	3451.8
12.5°	3633.7	3718.4	3833.1	3800.7	3681.1	3573.9	3464.2	3359.6	3307.2	3232.5	3252.4
15°	3723.4	3820.6	3838.1	3783.2	3633.7	3499.1	3299.7	3152.7	3100.4	3033.1	3068.0
17.5°	3820.6	3912.8	3882.9	3740.9	3539.0	3334.6	3107.8	2963.3	2853.6	2811.3	2811.3
20°	3965.2	4010.0	3962.7	3671.1	3424.4	3155.2	2935.9	2771.4	2661.7	2644.3	2616.9
22.5°	4077.3	4149.6	3937.8	3568.9	3257.4	2920.9	2669.2	2606.9	2574.5	2547.1	2512.2
25°	4221.9	4219.4	3892.9	3474.2	2970.8	2641.8	2489.8	2484.8	2469.8	2459.9	2507.2
27.5°	4358.9	4301.6	3840.6	3239.9	2674.2	2429.9	2347.7	2402.5	2425.0	2410.0	2429.9
30°	4575.8	4481.1	3765.8	2990.7	2412.5	2215.6	2230.6	2305.3	2342.7	2365.1	2335.2
32.5°	4805.1	4660.5	3611.3	2731.5	2180.7	2081.0	2115.9	2193.2	2238.0	2263.0	2290.4
35°	5136.5	4800.1	3454.3	2392.6	2013.7	1998.8	2018.7	2061.1	2125.9	2143.3	2150.8
37.5°	5545.3	5011.9	3242.4	2120.9	1884.1	1901.6	1921.5	1936.5	1939.0	1971.4	1958.9
40°	5954.0	5191.4	2933.4	1861.7	1749.6	1844.3	1834.3	1806.9	1784.5	1754.5	1747.1
42.5°	6312.9	5348.4	2589.4	1642.4	1629.9	1784.5	1752.1	1682.3	1629.9	1607.5	1570.1
45°	6716.6	5570.2	2243.0	1505.3	1537.7	1712.2	1702.2	1595.0	1527.8	1448.0	1438.0
47.5°	7240.0	5802.0	1911.6	1363.3	1450.5	1684.8	1689.7	1552.7	1455.5	1348.3	1333.4
50°	7910.4	6135.9	1659.8	1303.4	1398.2	1644.9	1652.4	1495.4	1368.2	1258.6	1248.6
52.5°	8553.4	6477.4	1450.5	1211.2	1363.3	1597.5	1615.0	1443.0	1296.0	1158.9	1166.4
55°	8877.4	6352.7	1271.0	1143.9	1283.5	1520.3	1585.1	1405.6	1186.3	1091.6	1089.1
57.5°	8949.7	6046.2	1129.0	1074.2	1216.2	1438.0	1535.2	1293.5	1136.5	1056.7	1046.7
60°	8712.9	5510.4	1016.8	999.4	1131.5	1353.3	1420.6	1233.7	1086.6	1021.8	1006.9
62.5°	8129.7	4954.6	939.6	964.5	1059.2	1261.1	1348.3	1191.3	1039.3	994.4	962.0
65°	6666.8	4074.8	877.3	897.2	984.4	1171.4	1303.4	1143.9	996.9	954.5	952.0
67.5°	4618.1	2808.8	827.4	864.8	924.6	1106.6	1258.6	1091.6	942.1	927.1	907.2
70°	2365.1	1497.8	762.6	792.5	859.8	1024.3	1178.8	1036.8	884.7	882.3	857.3
72.5°	1198.8	877.3	687.9	732.7	780.1	917.1	1079.1	964.5	812.5	785.1	745.2
73°	1036.8	812.5	675.4	715.3	760.1	887.2	1049.2	947.1	802.5	762.6	725.2
75°	755.2	640.5	605.6	645.5	680.4	800.0	949.5	867.3	737.7	695.3	660.4
77.5°	565.7	493.5	503.4	548.3	578.2	690.4	844.9	785.1	667.9	610.6	595.6
80°	416.2	376.3	416.2	458.6	481.0	608.1	770.1	680.4	563.2	498.5	486.0
82.5°	296.6	274.1	321.5	348.9	358.9	503.4	692.8	543.3	426.2	341.4	314.0
85°	169.5	167.0	216.8	214.3	221.8	294.1	456.1	361.4	274.1	209.3	204.4
87.5°	74.8	82.2	109.7	87.2	92.2	139.6	194.4	134.6	112.2	62.3	47.4
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)