

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: P478080

Luminaire Tested: **IFLD-S-SA3C-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478080
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

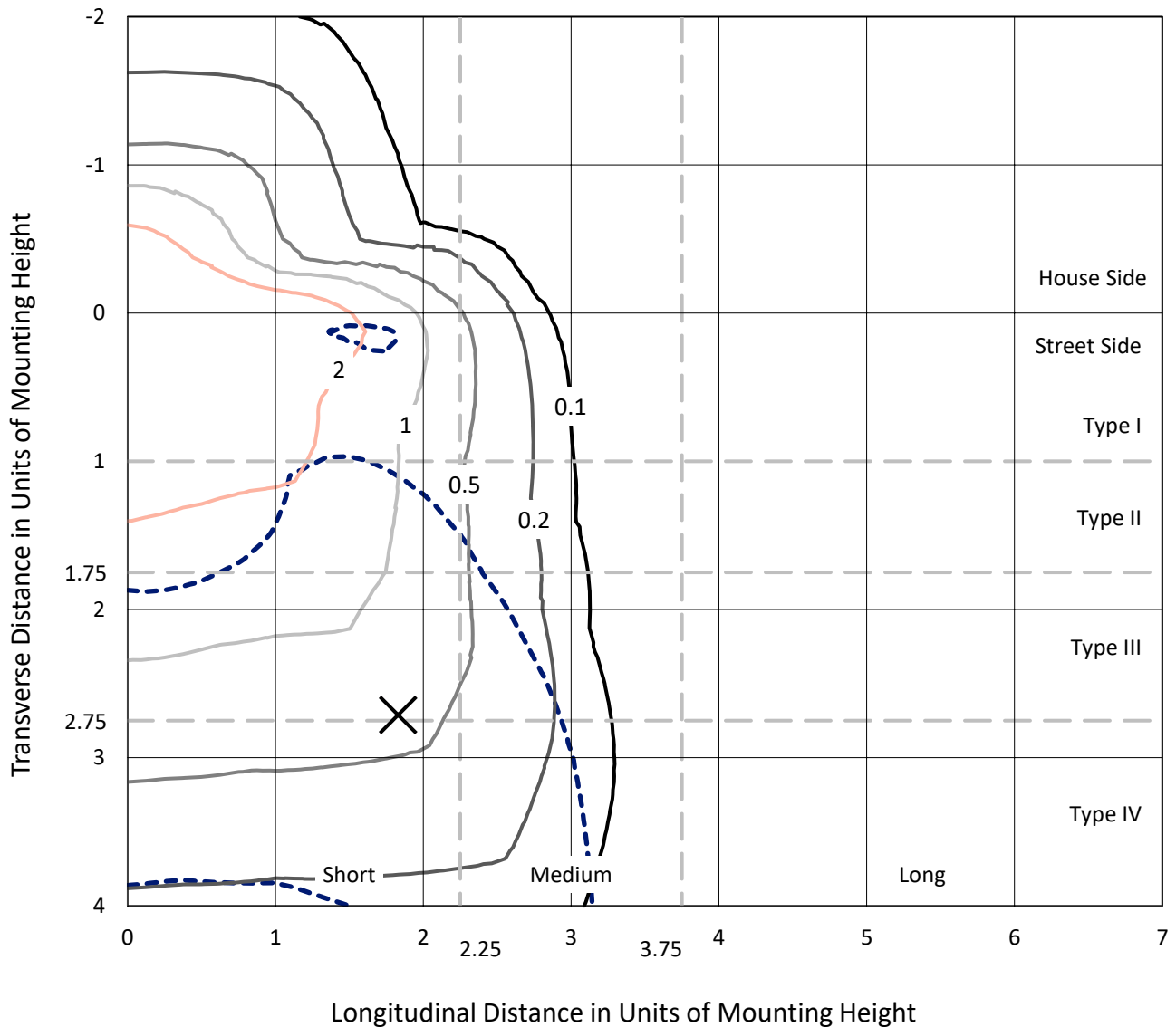
Lumens per Lamp: N/A
Luminaire Lumens: 19760.7 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
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

REPORT NUMBER: P478080
 CATALOG NUMBER: IFLD-S-SA3C-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

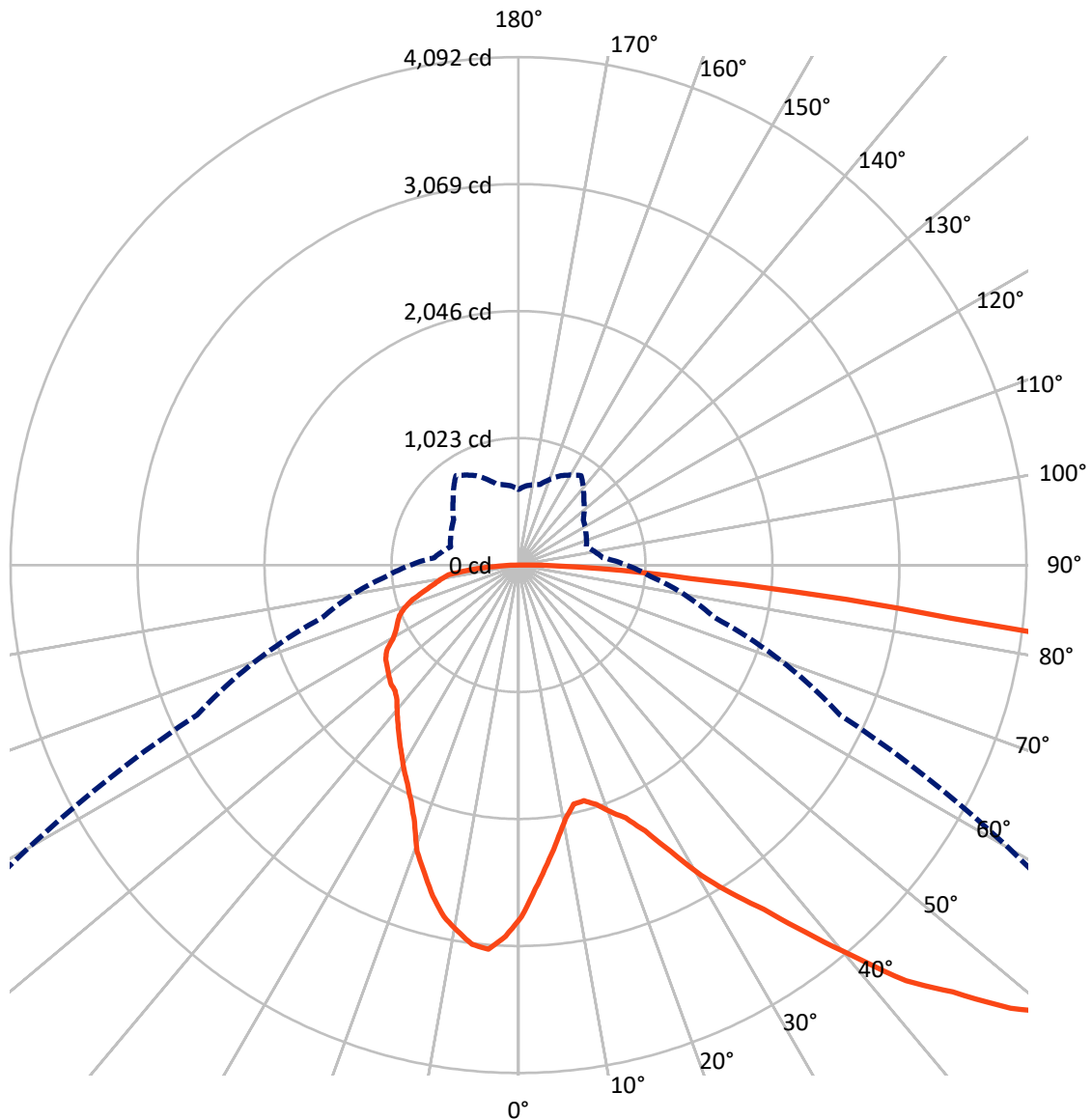
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P478080
CATALOG NUMBER: IFLD-S-SA3C-730-U-T4FT

Luminous Intensity Polar Plot



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



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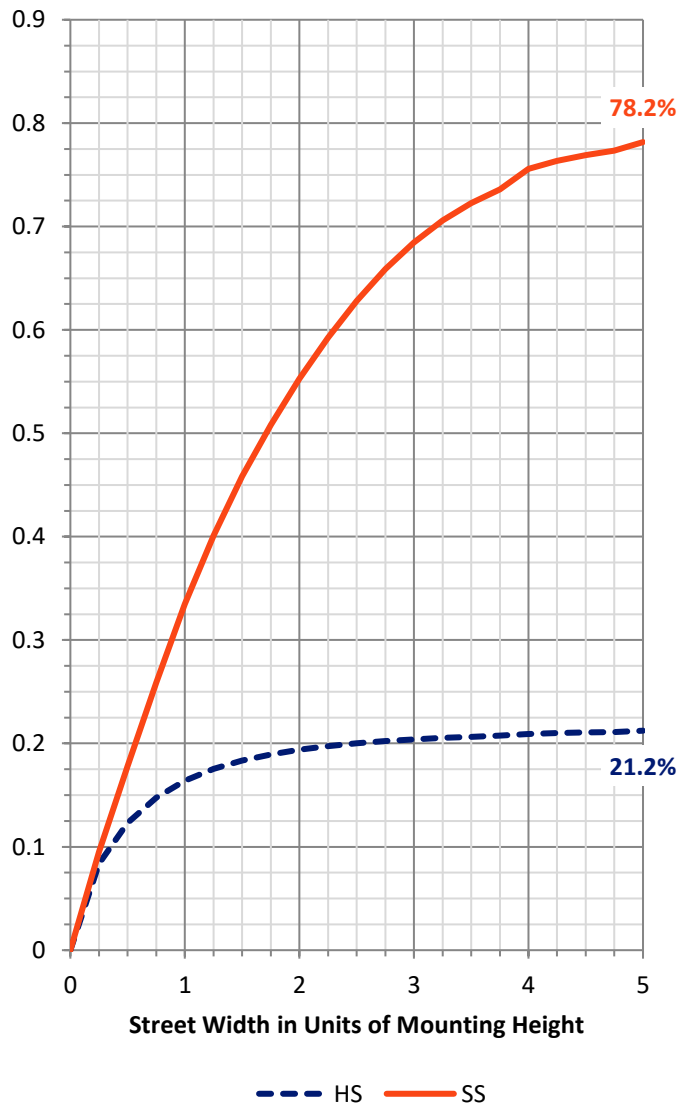
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4268.6	0.0	4268.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15492.1	0.0	15492.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	19760.7	0.0	19760.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.5	1.3
10°-20°	731.8	3.7
20°-30°	1204.4	6.1
30°-40°	1801.1	9.1
40°-50°	2670.1	13.5
50°-60°	3847.8	19.5
60°-70°	4910.4	24.8
70°-80°	3821.1	19.3
80°-90°	512.6	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°	19760.7	100.0
0°-180°	19760.7	100.0

Coefficient of Utilization



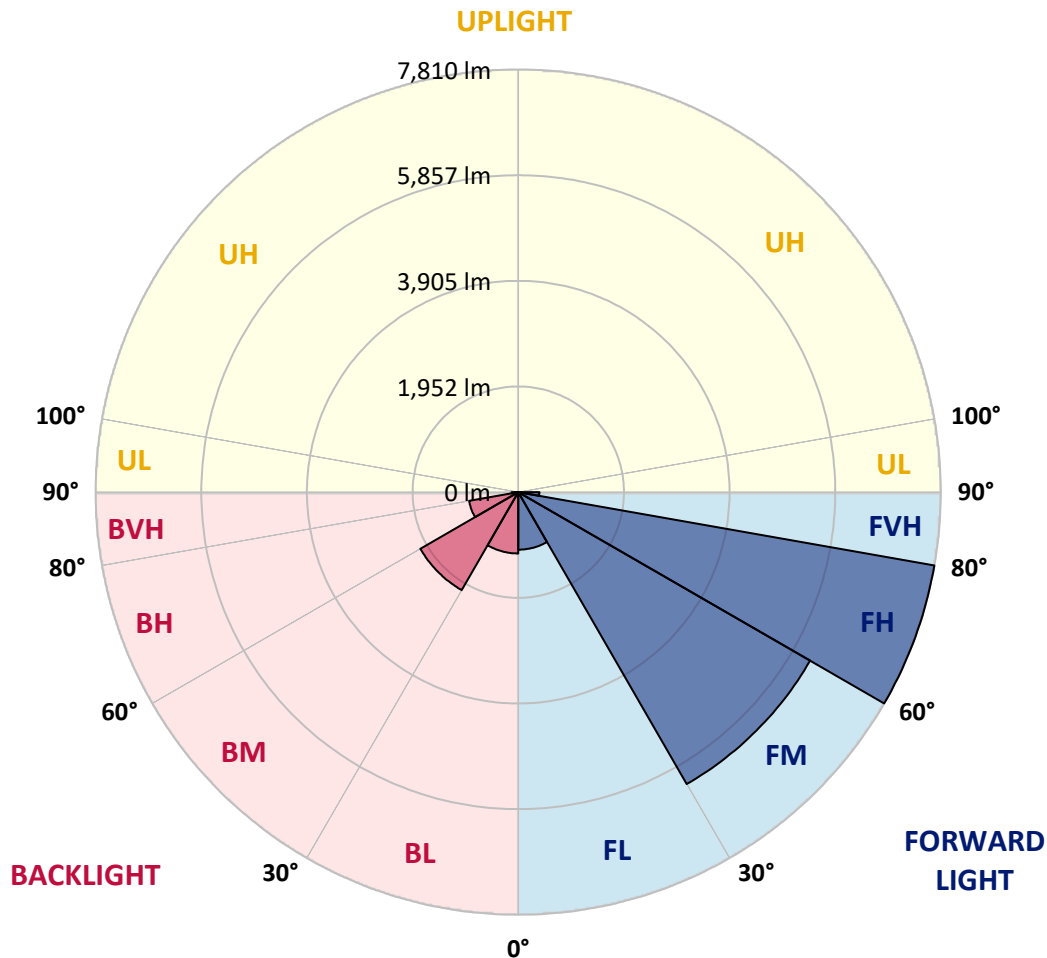
REPORT NUMBER: P478080
 CATALOG NUMBER: IFLD-S-SA3C-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.5	5.4			
FM (30°-60°)	6228.7	31.5			
FH (60°-80°)	7809.8	39.5			G4/12000
FVH (80°-90°)	390.2	2.0			G3/500
BL (0°-30°)	1134.1	5.7	B3/2500		
BM (30°-60°)	2090.3	10.6	B2/2500		
BH (60°-80°)	921.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	122.4	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





REPORT NUMBER: P478080
 CATALOG NUMBER: IFLD-S-SA3C-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0
2.5°	2538.4	2546.8	2573.9	2580.2	2609.5	2592.7	2628.3	2690.9	2726.5	2778.7	2841.4
5°	2337.9	2302.3	2319.1	2383.8	2417.2	2425.6	2463.2	2569.8	2636.6	2713.9	2830.9
7.5°	2101.8	2095.5	2128.9	2170.7	2237.6	2243.8	2327.4	2421.4	2559.3	2730.6	2868.5
10°	1940.9	1968.1	1986.9	2030.7	2076.7	2076.7	2183.3	2346.2	2502.9	2668.0	2876.9
12.5°	1932.5	1915.8	1920.0	1943.0	1976.4	2018.2	2118.5	2264.7	2463.2	2655.4	2912.4
15°	1959.7	1966.0	1928.4	1957.6	1970.2	1984.8	2095.5	2260.6	2438.1	2699.3	2973.0
17.5°	2103.9	2068.3	2009.8	1982.7	2026.6	2026.6	2101.8	2231.3	2442.3	2722.3	3060.7
20°	2216.7	2216.7	2120.6	2091.3	2122.7	2116.4	2168.6	2264.7	2463.2	2768.2	3158.9
22.5°	2406.8	2434.0	2275.2	2214.6	2212.5	2229.2	2275.2	2356.7	2521.7	2833.0	3252.9
25°	2680.5	2686.8	2502.9	2440.2	2373.4	2400.5	2408.9	2490.4	2573.9	2908.2	3359.5
27.5°	2985.5	2981.3	2812.1	2655.4	2611.5	2617.8	2571.9	2626.2	2651.2	2931.2	3512.0
30°	3324.0	3286.4	3158.9	2937.5	2902.0	2862.3	2762.0	2759.9	2812.1	3060.7	3723.0
32.5°	3545.4	3497.4	3409.6	3250.9	3152.7	3156.8	2998.1	2996.0	2950.0	3202.8	3906.9
35°	3762.7	3689.6	3666.6	3503.7	3405.5	3415.9	3288.5	3271.7	3188.2	3418.0	4209.8
37.5°	4023.9	3959.1	3994.6	3871.4	3750.2	3700.0	3641.5	3620.7	3512.0	3720.9	4623.5
40°	4312.2	4291.3	4268.3	4207.7	4134.6	4138.8	4076.1	4055.2	3894.3	4086.6	5020.4
42.5°	4700.8	4621.4	4502.3	4542.0	4579.6	4619.3	4598.4	4544.1	4377.0	4458.4	5463.4
45°	5062.2	4957.8	4738.4	4750.9	4905.5	4936.9	5189.7	5183.4	4847.0	4930.6	5966.9
47.5°	5306.7	5258.6	5127.0	5112.4	5333.8	5331.7	5787.2	5787.2	5342.2	5400.7	6508.0
50°	5670.2	5544.8	5488.4	5561.6	5674.4	5751.7	6397.2	6436.9	5829.0	5891.7	7216.2
52.5°	6096.4	5939.7	5797.6	5985.7	6186.2	6236.4	7001.0	6984.3	6202.9	6462.0	8045.7
55°	6449.5	6370.1	6271.9	6380.5	6708.5	6771.2	7606.9	7452.3	6576.9	6934.2	8444.7
57.5°	6861.1	6909.1	6930.0	6902.8	7293.5	7391.7	8298.5	7855.5	6898.7	7251.7	8678.7
60°	7481.6	7510.8	7538.0	7602.7	8016.4	8154.3	8845.8	8361.1	7101.3	7435.6	8697.5
62.5°	8425.9	8313.1	8373.7	8597.2	8929.4	9086.1	9652.3	8716.3	7255.9	7546.3	8083.3
65°	9506.0	9353.5	9290.8	9579.2	10439.9	10314.6	10659.3	8981.6	7032.4	7132.7	6854.8
67.5°	10600.8	10617.5	10456.6	11035.4	12090.4	12090.4	11595.3	9109.1	6426.5	5780.9	4807.3
70°	11469.9	11522.2	11609.9	12731.8	14403.2	14656.0	12754.8	8586.8	5191.8	3848.4	2628.3
72.5°	11457.4	11300.7	11749.9	13816.1	16505.0	16294.0	12997.2	6790.0	3240.4	1884.5	1205.5
73°	11200.4	11068.8	11559.8	13805.7	16590.6	16392.2	12819.6	6259.4	2858.1	1633.8	1071.8
75°	9146.7	8908.5	9744.2	12504.1	15349.6	15502.2	10891.2	4082.4	1566.9	1007.0	754.2
77.5°	4170.1	4274.6	5363.1	8388.3	11829.3	12008.9	7159.8	1765.4	858.7	706.2	555.7
80°	1339.2	1406.1	2087.1	4170.1	7414.7	7738.5	3309.4	802.3	612.1	541.1	415.8
82.5°	511.9	509.8	875.4	1734.1	3514.1	3720.9	1209.7	488.9	455.5	399.0	294.6
85°	179.7	188.0	330.1	685.3	1383.1	1447.8	419.9	271.6	315.5	267.4	169.2
87.5°	62.7	64.8	117.0	248.6	476.3	503.5	117.0	108.6	156.7	154.6	85.7
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°	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0	2833.0
2.5°	2862.3	2881.1	2887.3	2962.5	2962.5	2962.5	2991.8	2991.8	2983.4	2962.5	3012.7
5°	2874.8	2908.2	2973.0	3037.8	3054.5	3069.1	3108.8	3075.4	3087.9	3067.0	3085.8
7.5°	2910.3	2956.3	3077.4	3117.1	3090.0	3121.3	3079.5	3056.6	3033.6	3041.9	3012.7
10°	2970.9	3029.4	3085.8	3158.9	3106.7	3075.4	2989.7	2968.8	2895.7	2870.6	2893.6
12.5°	3046.1	3117.1	3213.2	3186.1	3085.8	2996.0	2904.0	2816.3	2772.4	2709.7	2726.5
15°	3121.3	3202.8	3217.4	3171.5	3046.1	2933.3	2766.2	2642.9	2599.0	2542.6	2571.9
17.5°	3202.8	3280.1	3255.0	3135.9	2966.7	2795.4	2605.3	2484.1	2392.2	2356.7	2356.7
20°	3324.0	3361.6	3321.9	3077.4	2870.6	2645.0	2461.1	2323.2	2231.3	2216.7	2193.7
22.5°	3418.0	3478.6	3301.0	2991.8	2730.6	2448.6	2237.6	2185.3	2158.2	2135.2	2106.0
25°	3539.2	3537.1	3263.4	2912.4	2490.4	2214.6	2087.1	2083.0	2070.4	2062.1	2101.8
27.5°	3654.1	3606.0	3219.5	2716.0	2241.8	2037.0	1968.1	2014.0	2032.8	2020.3	2037.0
30°	3835.8	3756.5	3156.8	2507.1	2022.4	1857.3	1869.9	1932.5	1963.9	1982.7	1957.6
32.5°	4028.1	3906.9	3027.3	2289.8	1828.1	1744.5	1773.8	1838.5	1876.1	1897.0	1920.0
35°	4305.9	4023.9	2895.7	2005.7	1688.1	1675.6	1692.3	1727.8	1782.1	1796.7	1803.0
37.5°	4648.6	4201.5	2718.1	1777.9	1579.5	1594.1	1610.8	1623.3	1625.4	1652.6	1642.1
40°	4991.2	4351.9	2459.0	1560.7	1466.6	1546.0	1537.7	1514.7	1495.9	1470.8	1464.6
42.5°	5292.0	4483.5	2170.7	1376.8	1366.4	1495.9	1468.7	1410.2	1366.4	1347.6	1316.2
45°	5630.5	4669.4	1880.3	1261.9	1289.1	1435.3	1427.0	1337.1	1280.7	1213.8	1205.5
47.5°	6069.2	4863.7	1602.4	1142.8	1215.9	1412.3	1416.5	1301.6	1220.1	1130.3	1117.7
50°	6631.2	5143.7	1391.4	1092.7	1172.1	1378.9	1385.2	1253.5	1147.0	1055.1	1046.7
52.5°	7170.3	5429.9	1215.9	1015.4	1142.8	1339.2	1353.8	1209.7	1086.4	971.5	977.8
55°	7441.9	5325.5	1065.5	959.0	1076.0	1274.4	1328.8	1178.3	994.5	915.1	913.0
57.5°	7502.5	5068.5	946.4	900.5	1019.5	1205.5	1287.0	1084.3	952.7	885.8	877.5
60°	7304.0	4619.3	852.4	837.8	948.5	1134.5	1190.9	1034.2	910.9	856.6	844.1
62.5°	6815.1	4153.4	787.6	808.5	887.9	1057.2	1130.3	998.7	871.2	833.6	806.4
65°	5588.7	3415.9	735.4	752.1	825.2	981.9	1092.7	959.0	835.7	800.2	798.1
67.5°	3871.4	2354.6	693.6	725.0	775.1	927.6	1055.1	915.1	789.7	777.2	760.5
70°	1982.7	1255.6	639.3	664.4	720.8	858.7	988.2	869.1	741.7	739.6	718.7
72.5°	1004.9	735.4	576.6	614.2	653.9	768.8	904.6	808.5	681.1	658.1	624.7
73°	869.1	681.1	566.2	599.6	637.2	743.8	879.6	793.9	672.7	639.3	608.0
75°	633.0	536.9	507.7	541.1	570.4	670.6	796.0	727.1	618.4	582.9	553.6
77.5°	474.3	413.7	422.0	459.6	484.7	578.7	708.3	658.1	559.9	511.9	499.3
80°	348.9	315.5	348.9	384.4	403.2	509.8	645.6	570.4	472.2	417.8	407.4
82.5°	248.6	229.8	269.5	292.5	300.9	422.0	580.8	455.5	357.3	286.2	263.2
85°	142.1	140.0	181.8	179.7	185.9	246.5	382.3	302.9	229.8	175.5	171.3
87.5°	62.7	68.9	91.9	73.1	77.3	117.0	163.0	112.8	94.0	52.2	39.7
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)