

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: P476717

Luminaire Tested: **IFLD-S-SA3E-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476717
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

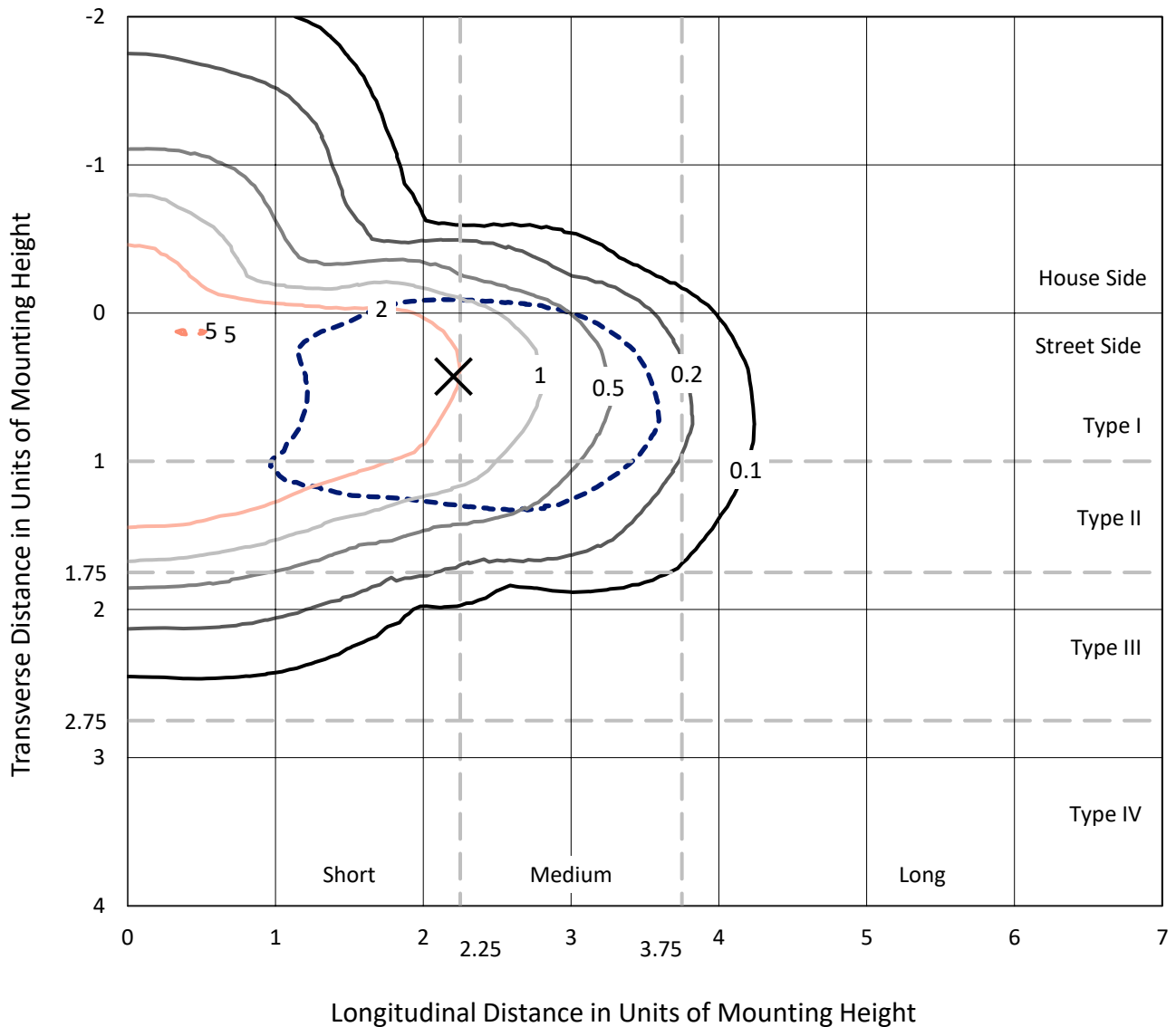
Lumens per Lamp: N/A
Luminaire Lumens: 19804.2 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

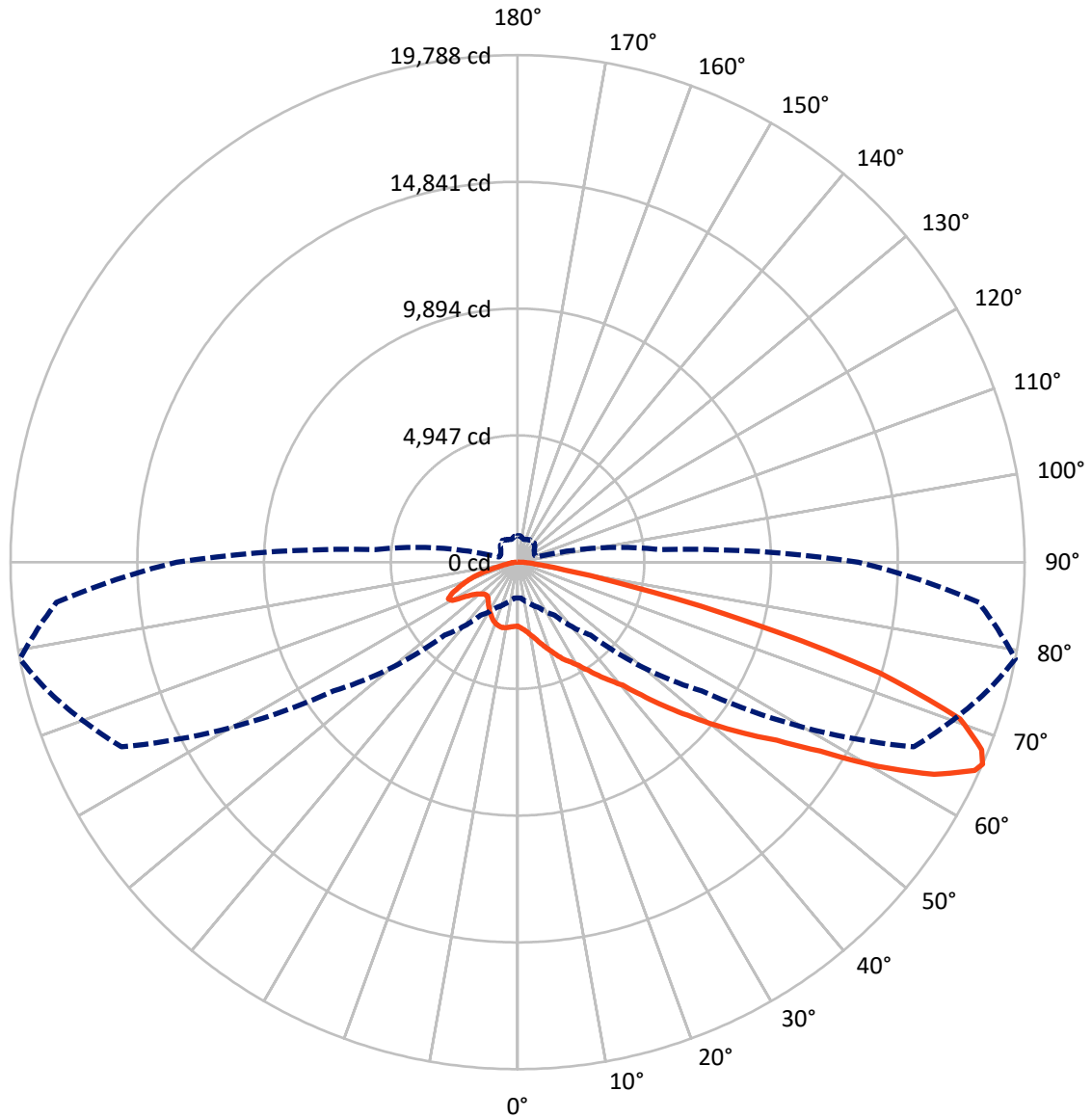
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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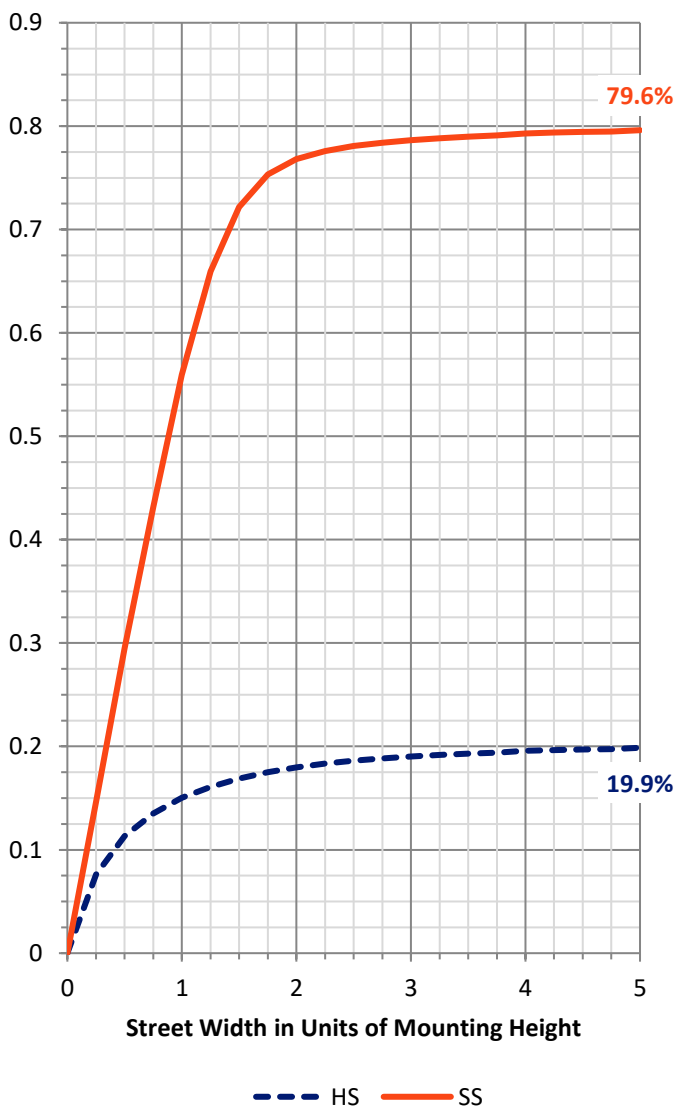
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3999.2	0.0	3999.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	15805.0	0.0	15805.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	19804.2	0.0	19804.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	1.2
10°-20°	759.3	3.8
20°-30°	1303.4	6.6
30°-40°	2013.5	10.2
40°-50°	3225.1	16.3
50°-60°	4815.2	24.3
60°-70°	4947.7	25.0
70°-80°	2193.2	11.1
80°-90°	300.9	1.5
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°	19804.2	100.0
0°-180°	19804.2	100.0

Coefficient of Utilization



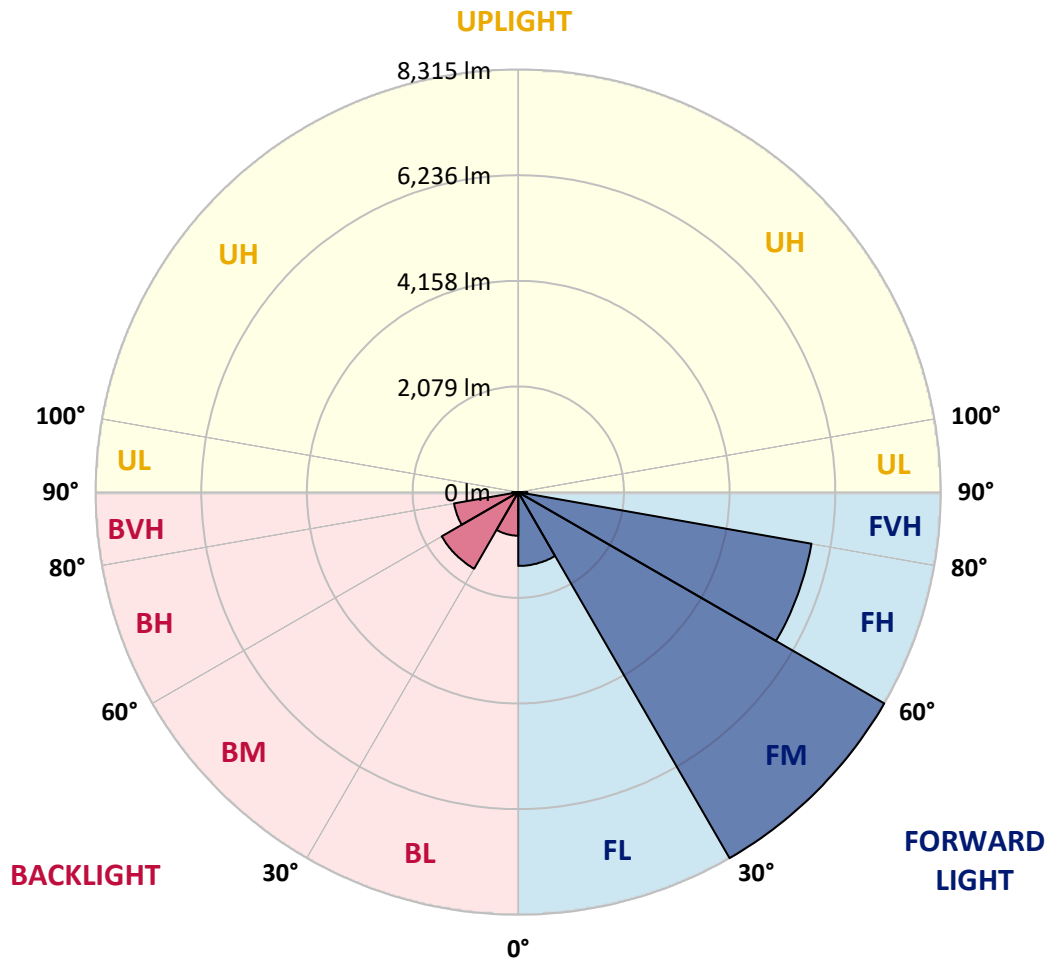
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.8	7.3			
FM (30°-60°)	8315.1	42.0			
FH (60°-80°)	5857.6	29.6			G3/7500
FVH (80°-90°)	180.5	0.9			G2/225
BL (0°-30°)	856.8	4.3	B2/1000		
BM (30°-60°)	1738.7	8.8	B2/2500		
BH (60°-80°)	1283.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	120.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2659.7	2661.9	2661.9	2653.2	2655.4	2661.9	2638.0	2585.7	2585.7	2577.0	2561.7
5°	2823.1	2812.2	2797.0	2799.1	2790.4	2790.4	2764.3	2714.2	2670.6	2653.2	2607.5
7.5°	2844.9	2855.8	2853.6	2879.7	2892.8	2892.8	2905.9	2864.5	2799.1	2757.8	2712.0
10°	2888.5	2860.1	2858.0	2919.0	2938.6	2984.3	3036.6	3014.8	2960.3	2901.5	2840.5
12.5°	2914.6	2932.0	2932.0	2962.5	3008.3	3075.8	3167.3	3208.7	3123.7	3062.7	2969.1
15°	2953.8	2929.8	2999.6	3025.7	3112.8	3160.8	3291.5	3398.2	3341.6	3267.5	3119.4
17.5°	2971.2	2956.0	2995.2	3043.1	3191.2	3263.1	3422.2	3570.3	3522.4	3474.4	3321.9
20°	3060.5	3058.4	3075.8	3115.0	3221.7	3363.3	3561.6	3766.3	3783.8	3696.6	3489.7
22.5°	3278.4	3250.1	3250.1	3234.8	3280.6	3426.5	3694.4	3977.6	4056.0	3953.7	3679.2
25°	3478.8	3518.0	3494.0	3424.3	3406.9	3483.1	3790.3	4202.0	4306.6	4210.7	3936.2
27.5°	3735.8	3748.9	3790.3	3696.6	3576.8	3600.8	3894.8	4328.3	4544.0	4415.5	4082.2
30°	4106.1	4082.2	4073.5	3968.9	3812.1	3779.4	4014.7	4513.5	4855.5	4674.7	4254.3
32.5°	4356.7	4415.5	4413.3	4269.5	4080.0	4008.1	4162.8	4687.8	5188.8	5021.0	4572.3
35°	4853.3	4914.3	4866.4	4655.1	4432.9	4289.1	4376.3	4914.3	5570.0	5439.3	4842.4
37.5°	5487.2	5631.0	5528.6	5138.7	4825.0	4668.2	4672.5	5160.5	5959.9	5853.2	5132.1
40°	5925.0	6118.9	5977.3	5611.4	5278.1	5130.0	5071.1	5452.3	6426.1	6312.8	5585.2
42.5°	6467.4	6628.6	6554.6	6193.0	5803.1	5676.7	5559.1	5940.3	7138.4	7086.1	6166.8
45°	7060.0	7136.2	7112.2	6883.5	6450.0	6406.5	6147.2	6582.9	7977.0	7998.8	6894.4
47.5°	7611.1	7652.5	7698.2	7532.7	7262.5	7299.6	6824.7	7271.3	8791.7	8935.5	7704.7
50°	7752.7	7894.3	8001.0	8112.1	8170.9	8421.4	7571.9	8116.4	9728.4	10007.2	8606.6
52.5°	7608.9	7598.0	7922.6	8271.1	8859.3	9384.2	8589.1	9166.4	10556.2	11107.3	9432.2
55°	6955.4	6933.6	7456.4	7918.2	9066.2	9920.1	10042.1	10564.9	11556.0	12272.7	10549.6
57.5°	5811.8	5676.7	6247.4	7005.5	8617.5	9978.9	11501.6	12640.8	13093.9	13910.8	12255.3
60°	3905.7	3849.1	4395.9	5299.9	6996.8	9144.6	12375.1	15239.6	15261.4	16180.6	14901.9
62.5°	2404.9	2415.8	2766.5	3443.9	4899.1	7249.5	11998.2	17315.5	17319.9	18241.3	17080.3
65°	1572.8	1579.3	1862.5	2237.1	3060.5	4916.5	9922.3	17478.9	18751.0	19607.1	18077.9
66°	1400.7	1402.8	1646.8	1951.8	2535.6	4023.4	8763.4	17054.1	19073.4	19787.9	18064.9
67.5°	1180.7	1209.0	1405.0	1640.3	1977.9	2890.6	6953.2	15825.5	18907.9	19535.2	17655.3
70°	923.6	938.9	1093.5	1333.1	1483.4	1673.0	4132.3	12900.0	17306.8	18324.1	16165.4
72.5°	740.6	753.7	871.3	1082.6	1204.6	1102.2	2250.2	9360.3	13671.2	14756.0	12714.9
75°	625.2	627.4	684.0	851.7	991.1	827.8	1198.1	6007.8	8772.1	9277.5	7789.7
77.5°	505.4	514.1	553.3	649.1	797.3	651.3	714.5	3365.5	4404.6	4441.6	3600.8
80°	411.7	416.1	440.0	472.7	607.8	481.4	483.6	1642.5	1888.6	1845.0	1463.8
82.5°	324.6	328.9	357.2	350.7	446.6	344.2	300.6	790.7	869.2	851.7	673.1
85°	183.0	183.0	281.0	281.0	283.2	217.8	183.0	372.5	459.6	429.1	315.9
87.5°	58.8	61.0	85.0	89.3	141.6	98.0	89.3	139.4	217.8	191.7	113.3
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°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2553.0	2518.1	2502.9	2452.8	2439.7	2407.1	2391.8	2372.2	2365.7	2337.3	2363.5
5°	2572.6	2561.7	2500.7	2437.5	2389.6	2367.8	2335.2	2291.6	2287.2	2248.0	2243.7
7.5°	2655.4	2618.3	2511.6	2444.1	2348.2	2293.8	2221.9	2200.1	2171.8	2158.7	2187.0
10°	2783.9	2690.2	2531.2	2361.3	2243.7	2178.3	2126.0	2110.8	2113.0	2104.3	2091.2
12.5°	2875.4	2786.1	2498.5	2291.6	2139.1	2075.9	2071.6	2086.8	2110.8	2099.9	2115.2
15°	3006.1	2838.4	2474.6	2176.1	2054.2	2036.7	2034.6	2080.3	2078.1	2078.1	2075.9
17.5°	3128.1	2890.6	2387.4	2075.9	1964.9	1977.9	1993.2	1991.0	2012.8	2021.5	2036.7
20°	3282.7	2951.6	2265.5	1975.7	1897.3	1893.0	1890.8	1893.0	1914.7	1927.8	1916.9
22.5°	3417.8	2964.7	2163.1	1879.9	1816.7	1799.3	1771.0	1799.3	1788.4	1792.8	1805.8
25°	3535.4	2966.9	2017.1	1808.0	1736.1	1696.9	1675.1	1673.0	1653.3	1651.2	1651.2
27.5°	3633.4	2892.8	1888.6	1707.8	1640.3	1603.2	1601.1	1577.1	1527.0	1494.3	1498.7
30°	3709.7	2836.2	1799.3	1620.7	1555.3	1548.8	1529.2	1474.7	1409.4	1368.0	1368.0
32.5°	3844.7	2722.9	1677.3	1531.4	1498.7	1490.0	1444.2	1396.3	1335.3	1296.1	1289.6
35°	3944.9	2618.3	1596.7	1455.1	1439.9	1422.4	1383.2	1331.0	1313.5	1304.8	1311.4
37.5°	4058.2	2500.7	1498.7	1389.8	1405.0	1372.3	1326.6	1302.6	1363.6	1348.4	1354.9
40°	4239.0	2417.9	1402.8	1350.6	1365.8	1328.8	1270.0	1261.3	1337.5	1283.0	1270.0
42.5°	4570.1	2415.8	1344.0	1291.7	1302.6	1274.3	1222.0	1217.7	1248.2	1182.8	1163.2
45°	4981.8	2492.0	1300.5	1248.2	1239.5	1235.1	1217.7	1198.1	1171.9	1087.0	1065.2
47.5°	5474.1	2616.2	1291.7	1182.8	1193.7	1230.8	1209.0	1158.9	1091.3	1036.9	1026.0
50°	6071.0	2873.2	1270.0	1134.9	1154.5	1213.3	1195.9	1126.2	1065.2	1030.3	1023.8
52.5°	6731.0	3197.8	1241.6	1060.8	1104.4	1198.1	1206.8	1141.4	1052.1	1021.6	1017.3
55°	7508.7	3677.0	1209.0	980.2	1045.6	1182.8	1206.8	1097.9	1034.7	1034.7	1030.3
57.5°	9044.4	4539.6	1141.4	906.2	993.3	1154.5	1171.9	1100.1	1036.9	1036.9	1028.2
60°	11296.8	5885.8	1012.9	849.5	943.2	1115.3	1145.8	1067.4	1012.9	1026.0	1023.8
62.5°	13059.1	6295.4	904.0	795.1	893.1	1043.4	1110.9	1032.5	984.6	1032.5	1036.9
65°	13435.9	5881.5	792.9	736.3	823.4	973.7	1060.8	982.4	943.2	1036.9	1041.2
66°	13300.9	5559.1	753.7	718.8	792.9	938.9	1030.3	965.0	921.4	1032.5	1034.7
67.5°	12699.6	5075.5	710.1	681.8	751.5	888.8	995.5	941.0	886.6	1019.5	999.9
70°	11392.6	4304.4	636.1	616.5	692.7	806.0	914.9	880.0	832.1	938.9	904.0
72.5°	8774.3	3439.6	557.7	559.8	625.2	721.0	834.3	810.3	768.9	823.4	801.6
75°	5343.4	2197.9	485.8	490.1	544.6	640.4	758.1	740.6	690.5	721.0	710.1
77.5°	2367.8	1089.2	409.5	418.2	461.8	564.2	660.0	631.7	579.4	586.0	581.6
80°	919.3	516.3	333.3	344.2	372.5	450.9	546.8	520.6	474.9	466.2	461.8
82.5°	442.2	287.5	257.0	261.4	272.3	359.4	470.5	437.8	376.9	337.6	337.6
85°	222.2	178.6	180.8	165.6	180.8	244.0	318.0	265.8	220.0	196.0	200.4
87.5°	89.3	89.3	89.3	76.2	80.6	115.5	148.1	100.2	91.5	54.5	54.5
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)