

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: P476444

Luminaire Tested: **IFLD-S-SA3E-722-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476444
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

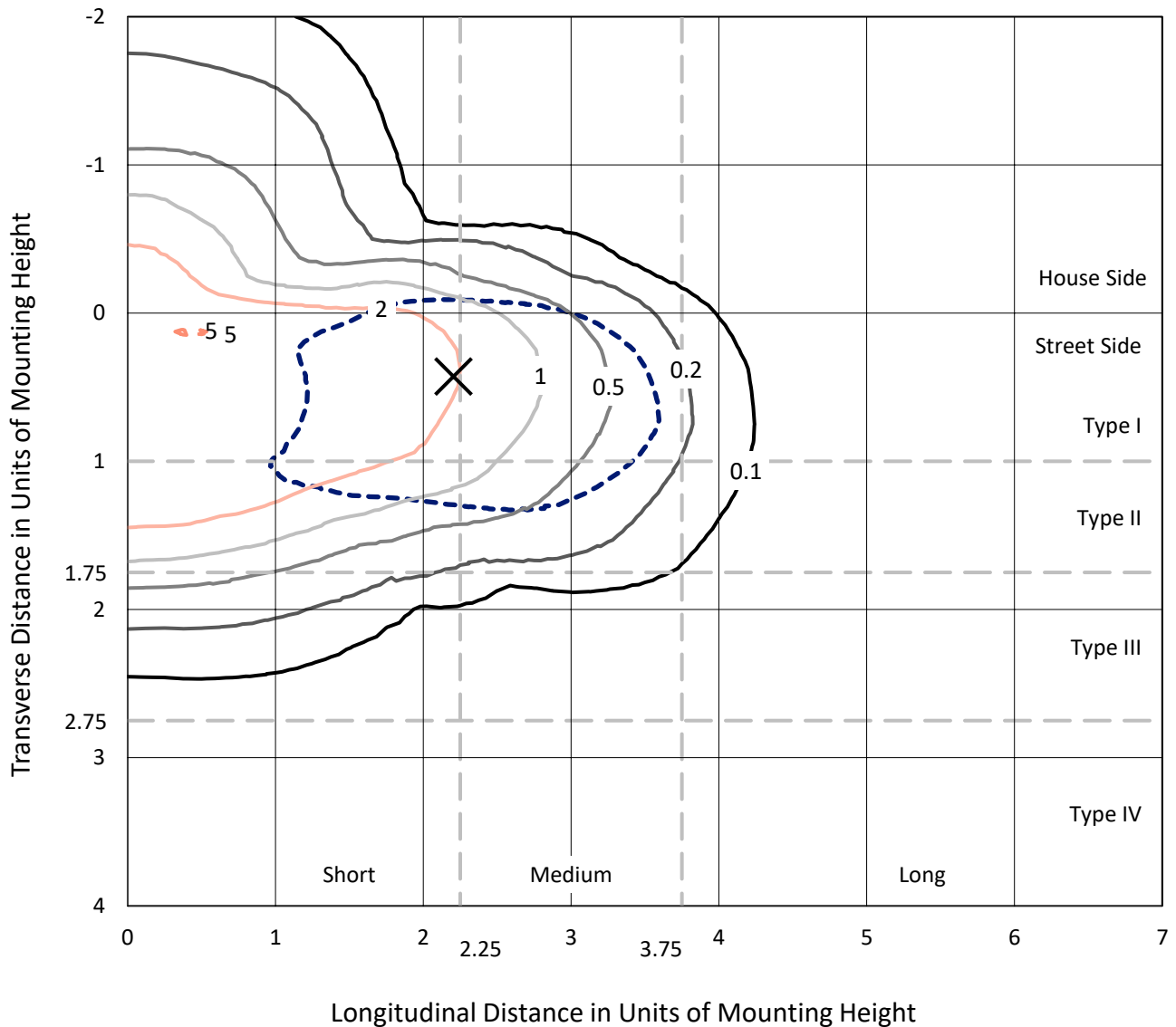
Lumens per Lamp: N/A
Luminaire Lumens: 19844.6 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

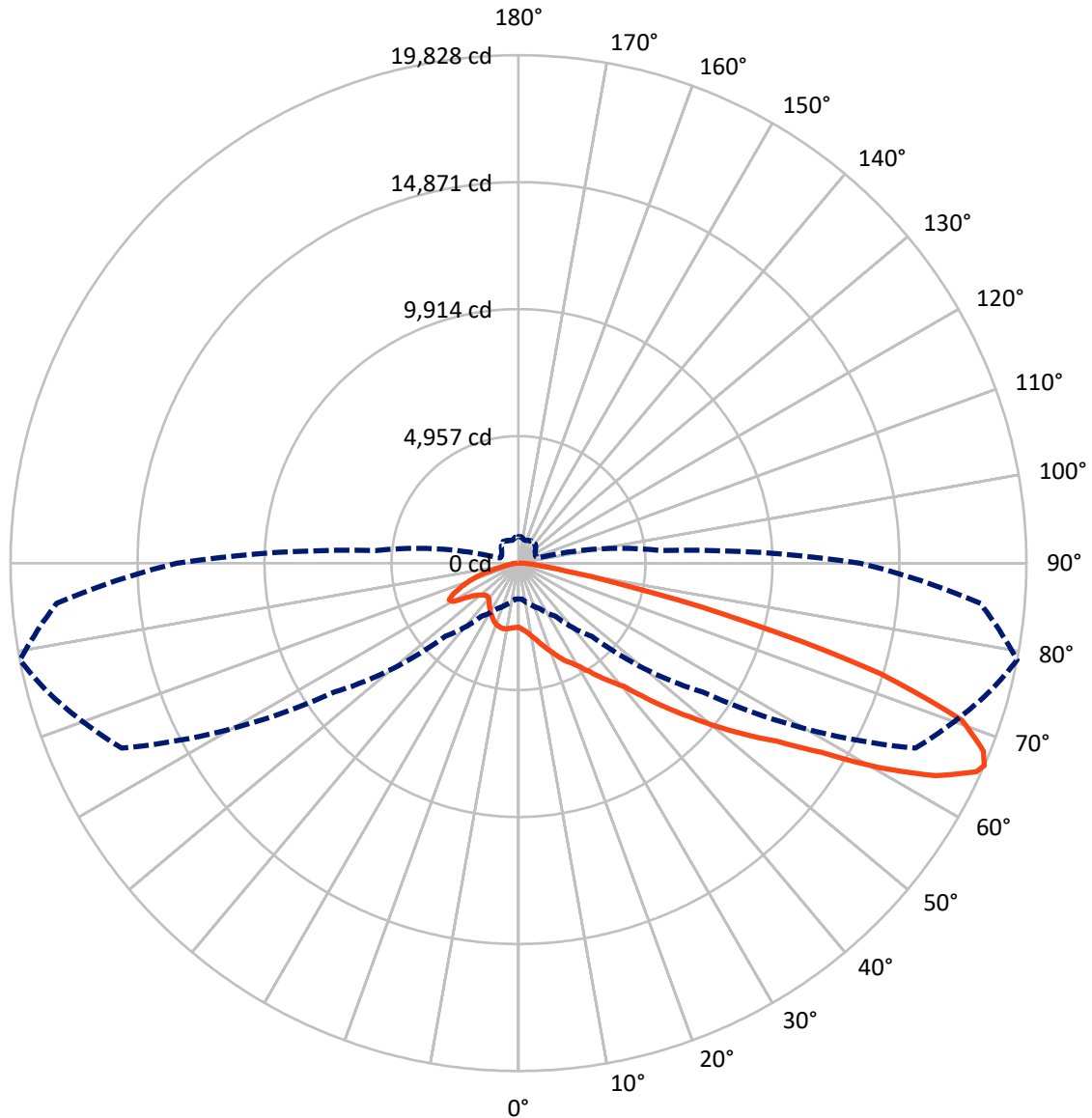
× Max cd
 - - - 1/2 Max cd



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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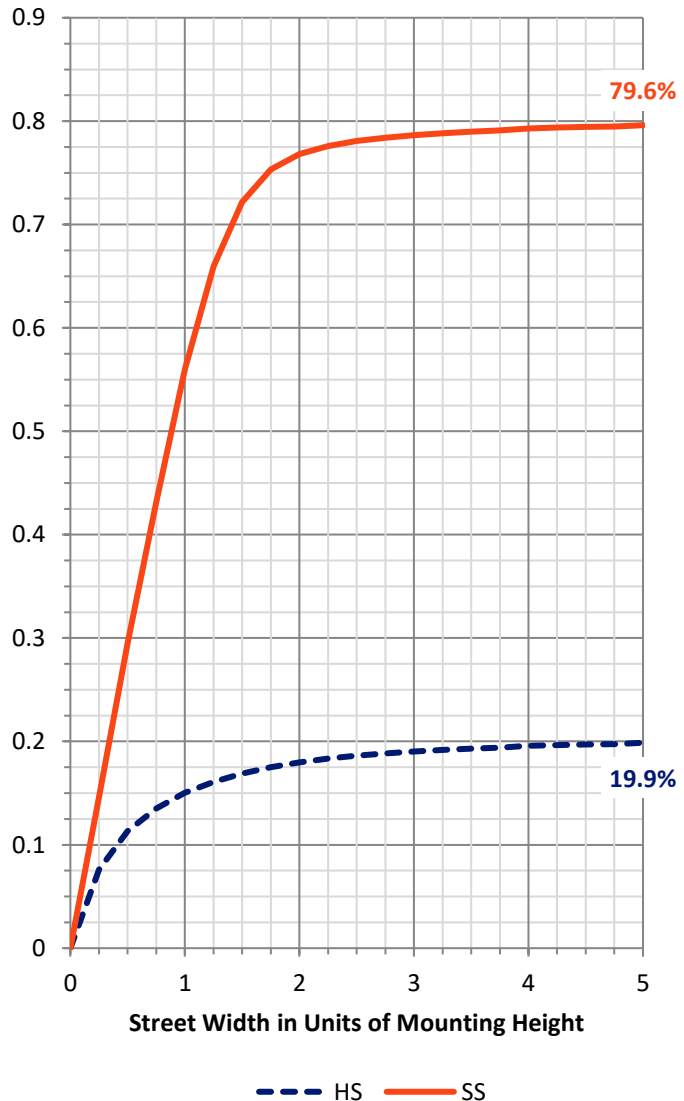
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4007.3	0.0	4007.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	15837.3	0.0	15837.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	19844.6	0.0	19844.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	1.2
10°-20°	760.9	3.8
20°-30°	1306.0	6.6
30°-40°	2017.6	10.2
40°-50°	3231.6	16.3
50°-60°	4825.1	24.3
60°-70°	4957.8	25.0
70°-80°	2197.7	11.1
80°-90°	301.5	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°	19844.6	100.0
0°-180°	19844.6	100.0

Coefficient of Utilization



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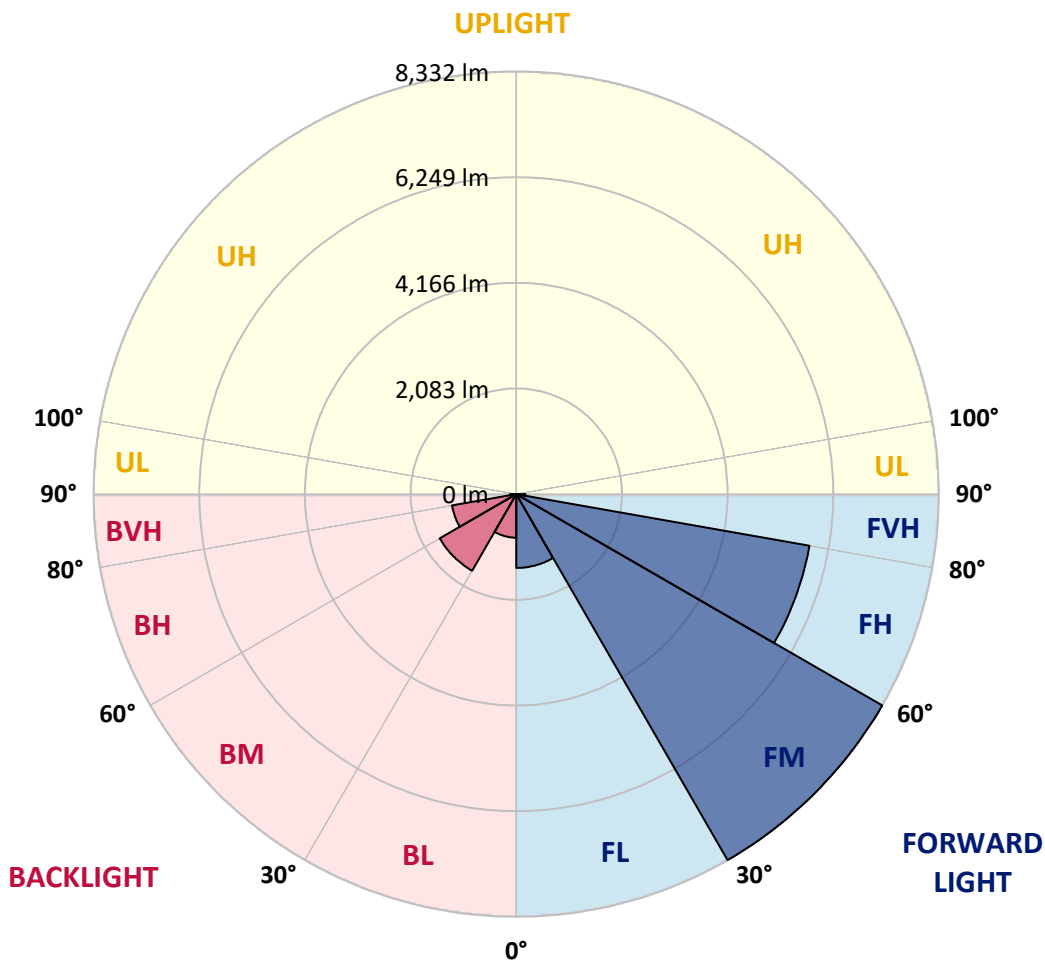
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.7	7.3			
FM (30°-60°)	8332.1	42.0			
FH (60°-80°)	5869.6	29.6			G3/7500
FVH (80°-90°)	180.9	0.9			G2/225
BL (0°-30°)	858.6	4.3	B2/1000		
BM (30°-60°)	1742.2	8.8	B2/2500		
BH (60°-80°)	1285.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	120.7	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°	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8
2.5°	2665.2	2667.3	2667.3	2658.6	2660.8	2667.3	2643.3	2590.9	2590.9	2582.2	2566.9
5°	2828.9	2818.0	2802.7	2804.9	2796.1	2796.1	2769.9	2719.7	2676.1	2658.6	2612.8
7.5°	2850.7	2861.6	2859.4	2885.6	2898.7	2898.7	2911.8	2870.3	2804.9	2763.4	2717.5
10°	2894.4	2866.0	2863.8	2924.9	2944.6	2990.4	3042.8	3021.0	2966.4	2907.5	2846.3
12.5°	2920.5	2938.0	2938.0	2968.6	3014.4	3082.1	3173.7	3215.2	3130.1	3069.0	2975.1
15°	2959.8	2935.8	3005.7	3031.9	3119.2	3167.2	3298.2	3405.1	3348.4	3274.2	3125.7
17.5°	2977.3	2962.0	3001.3	3049.3	3197.8	3269.8	3429.1	3577.6	3529.5	3481.5	3328.7
20°	3066.8	3064.6	3082.1	3121.4	3228.3	3370.2	3568.8	3774.0	3791.5	3704.2	3496.8
22.5°	3285.1	3256.7	3256.7	3241.4	3287.3	3433.5	3702.0	3985.7	4064.3	3961.7	3686.7
25°	3485.9	3525.2	3501.2	3431.3	3413.9	3490.3	3798.0	4210.6	4315.3	4219.3	3944.3
27.5°	3743.5	3756.5	3798.0	3704.2	3584.1	3608.1	3902.8	4337.2	4553.3	4424.5	4090.5
30°	4114.5	4090.5	4081.8	3977.0	3819.8	3787.1	4022.8	4522.7	4865.4	4684.2	4263.0
32.5°	4365.5	4424.5	4422.3	4278.2	4088.3	4016.3	4171.3	4697.3	5199.4	5031.3	4581.6
35°	4863.2	4924.3	4876.3	4664.6	4441.9	4297.9	4385.2	4924.3	5581.3	5450.4	4852.3
37.5°	5498.4	5642.5	5539.9	5149.2	4834.8	4677.7	4682.0	5171.0	5972.1	5865.1	5142.6
40°	5937.1	6131.4	5989.5	5622.8	5288.9	5140.4	5081.5	5463.5	6439.2	6325.7	5596.6
42.5°	6480.6	6642.2	6568.0	6205.6	5814.9	5688.3	5570.4	5952.4	7152.9	7100.6	6179.4
45°	7074.4	7150.8	7126.7	6897.6	6463.2	6419.5	6159.8	6596.3	7993.3	8015.1	6908.5
47.5°	7626.6	7668.1	7713.9	7548.0	7277.4	7314.5	6838.6	7286.1	8809.7	8953.7	7720.5
50°	7768.5	7910.4	8017.3	8128.6	8187.6	8438.6	7587.3	8133.0	9748.3	10027.6	8624.1
52.5°	7624.4	7613.5	7938.7	8288.0	8877.3	9403.4	8606.7	9185.1	10577.7	11129.9	9451.4
55°	6969.6	6947.8	7471.6	7934.4	9084.7	9940.3	10062.6	10586.4	11579.6	12297.7	10571.2
57.5°	5823.6	5688.3	6260.2	7019.8	8635.0	9999.3	11525.0	12666.6	13120.6	13939.2	12280.3
60°	3913.7	3857.0	4404.8	5310.7	7011.1	9163.3	12400.3	15270.7	15292.5	16213.6	14932.3
62.5°	2409.8	2420.7	2772.1	3451.0	4909.1	7264.3	12022.7	17350.8	17355.2	18278.5	17115.1
65°	1576.0	1582.5	1866.3	2241.7	3066.8	4926.5	9942.5	17514.6	18789.3	19647.1	18114.8
66°	1403.5	1405.7	1650.2	1955.8	2540.7	4031.6	8781.3	17088.9	19112.3	19828.3	18101.7
67.5°	1183.1	1211.4	1407.9	1643.6	1982.0	2896.5	6967.4	15857.8	18946.5	19575.1	17691.4
70°	925.5	940.8	1095.8	1335.9	1486.5	1676.4	4140.7	12926.4	17342.1	18361.5	16198.3
72.5°	742.1	755.2	873.1	1084.8	1207.1	1104.5	2254.8	9379.4	13699.1	14786.1	12740.8
75°	626.5	628.6	685.4	853.5	993.2	829.5	1200.5	6020.1	8790.0	9296.4	7805.6
77.5°	506.4	515.1	554.4	650.5	798.9	652.6	715.9	3372.4	4413.6	4450.7	3608.1
80°	412.5	416.9	440.9	473.7	609.0	482.4	484.6	1645.8	1892.5	1848.8	1466.8
82.5°	325.2	329.6	358.0	351.4	447.5	344.9	301.2	792.3	870.9	853.5	674.5
85°	183.4	183.4	281.6	281.6	283.8	218.3	183.4	373.3	460.6	430.0	316.5
87.5°	58.9	61.1	85.1	89.5	141.9	98.2	89.5	139.7	218.3	192.1	113.5
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°	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8	2505.8
2.5°	2558.2	2523.3	2508.0	2457.8	2444.7	2412.0	2396.7	2377.0	2370.5	2342.1	2368.3
5°	2577.9	2566.9	2505.8	2442.5	2394.5	2372.7	2339.9	2296.3	2291.9	2252.6	2248.3
7.5°	2660.8	2623.7	2516.7	2449.1	2353.0	2298.5	2226.4	2204.6	2176.2	2163.1	2191.5
10°	2789.6	2695.7	2536.4	2366.1	2248.3	2182.8	2130.4	2115.1	2117.3	2108.6	2095.5
12.5°	2881.3	2791.8	2503.6	2296.3	2143.5	2080.2	2075.8	2091.1	2115.1	2104.2	2119.5
15°	3012.2	2844.2	2479.6	2180.6	2058.4	2040.9	2038.7	2084.5	2082.4	2082.4	2080.2
17.5°	3134.5	2896.5	2392.3	2080.2	1968.9	1982.0	1997.2	1995.1	2016.9	2025.6	2040.9
20°	3289.4	2957.7	2270.1	1979.8	1901.2	1896.8	1894.6	1896.8	1918.7	1931.8	1920.8
22.5°	3424.8	2970.8	2167.5	1883.7	1820.4	1803.0	1774.6	1803.0	1792.1	1796.4	1809.5
25°	3542.6	2972.9	2021.2	1811.7	1739.7	1700.4	1678.6	1676.4	1656.7	1654.5	1654.5
27.5°	3640.9	2898.7	1892.5	1711.3	1643.6	1606.5	1604.3	1580.3	1530.1	1497.4	1501.7
30°	3717.3	2842.0	1803.0	1624.0	1558.5	1552.0	1532.3	1477.7	1412.3	1370.8	1370.8
32.5°	3852.6	2728.5	1680.7	1534.5	1501.7	1493.0	1447.2	1399.2	1338.0	1298.7	1292.2
35°	3953.0	2623.7	1600.0	1458.1	1442.8	1425.3	1386.1	1333.7	1316.2	1307.5	1314.0
37.5°	4066.5	2505.8	1501.7	1392.6	1407.9	1375.1	1329.3	1305.3	1366.4	1351.1	1357.7
40°	4247.7	2422.9	1405.7	1353.3	1368.6	1331.5	1272.6	1263.8	1340.2	1285.7	1272.6
42.5°	4579.5	2420.7	1346.8	1294.4	1305.3	1276.9	1224.5	1220.2	1250.7	1185.2	1165.6
45°	4992.0	2497.1	1303.1	1250.7	1242.0	1237.6	1220.2	1200.5	1174.3	1089.2	1067.4
47.5°	5485.3	2621.5	1294.4	1185.2	1196.2	1233.3	1211.4	1161.2	1093.6	1039.0	1028.1
50°	6083.4	2879.1	1272.6	1137.2	1156.9	1215.8	1198.3	1128.5	1067.4	1032.5	1025.9
52.5°	6744.8	3204.3	1244.2	1063.0	1106.7	1200.5	1209.3	1143.8	1054.3	1023.7	1019.4
55°	7524.0	3684.5	1211.4	982.2	1047.7	1185.2	1209.3	1100.1	1036.8	1036.8	1032.5
57.5°	9062.9	4548.9	1143.8	908.0	995.3	1156.9	1174.3	1102.3	1039.0	1039.0	1030.3
60°	11319.9	5897.8	1015.0	851.3	945.1	1117.6	1148.1	1069.6	1015.0	1028.1	1025.9
62.5°	13085.7	6308.2	905.8	796.7	894.9	1045.5	1113.2	1034.6	986.6	1034.6	1039.0
65°	13463.3	5893.5	794.5	737.8	825.1	975.7	1063.0	984.4	945.1	1039.0	1043.4
66°	13328.0	5570.4	755.2	720.3	794.5	940.8	1032.5	967.0	923.3	1034.6	1036.8
67.5°	12725.6	5085.9	711.6	683.2	753.1	890.6	997.5	943.0	888.4	1021.5	1001.9
70°	11415.9	4313.2	637.4	617.7	694.1	807.6	916.8	881.8	833.8	940.8	905.8
72.5°	8792.2	3446.6	558.8	561.0	626.5	722.5	836.0	812.0	770.5	825.1	803.3
75°	5354.3	2202.4	486.8	491.1	545.7	641.7	759.6	742.1	691.9	722.5	711.6
77.5°	2372.7	1091.4	410.4	419.1	462.7	565.3	661.4	633.0	580.6	587.2	582.8
80°	921.1	517.3	334.0	344.9	373.3	451.8	547.9	521.7	475.8	467.1	462.7
82.5°	443.1	288.1	257.6	261.9	272.8	360.2	471.5	438.7	377.6	338.3	338.3
85°	222.6	179.0	181.2	165.9	181.2	244.5	318.7	266.3	220.5	196.4	200.8
87.5°	89.5	89.5	89.5	76.4	80.8	115.7	148.4	100.4	91.7	54.6	54.6
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)