

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: P476970

Luminaire Tested: **IFLD-M-SA4D-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476970
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

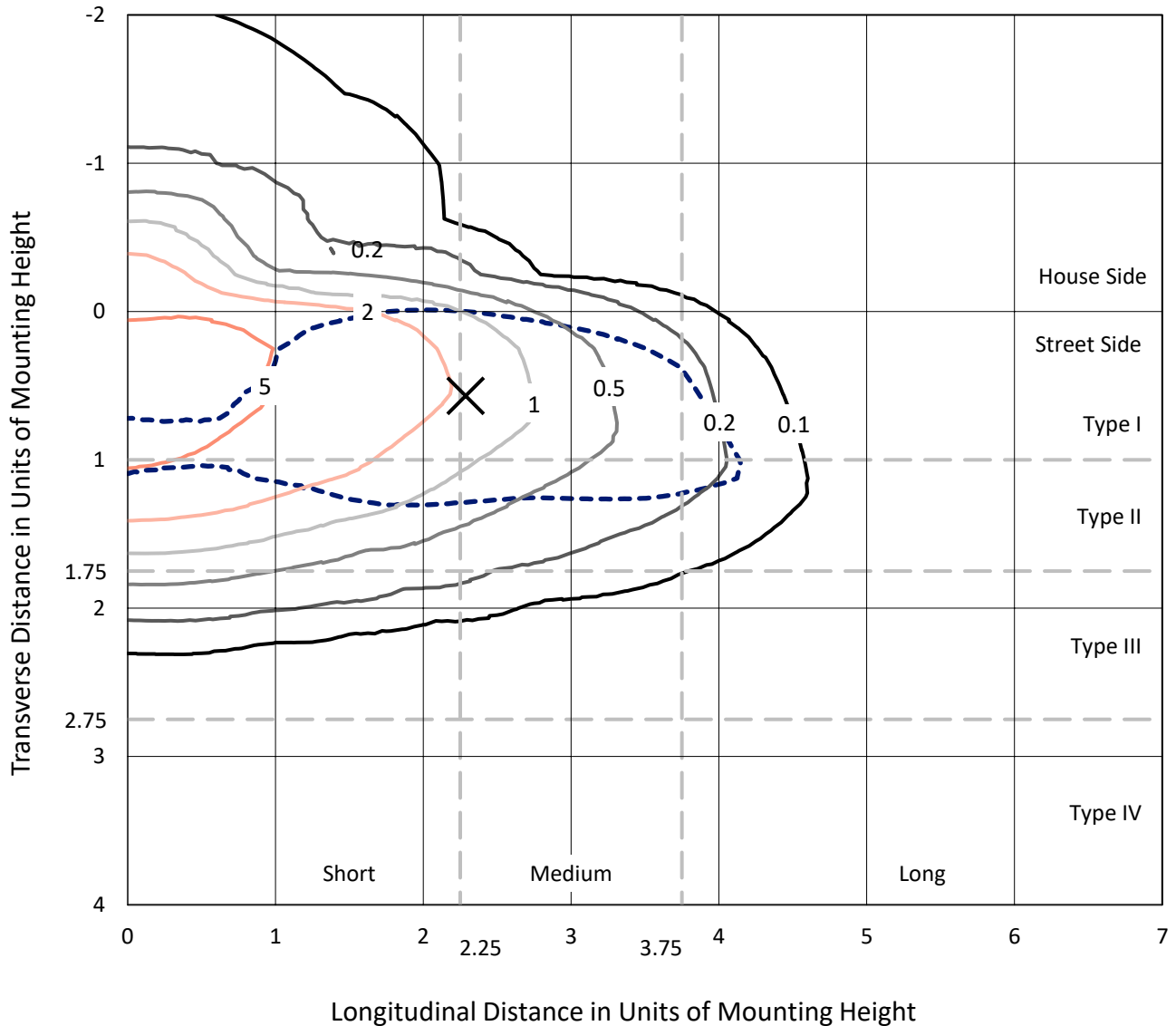
Lumens per Lamp: N/A
Luminaire Lumens: 31028.8 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

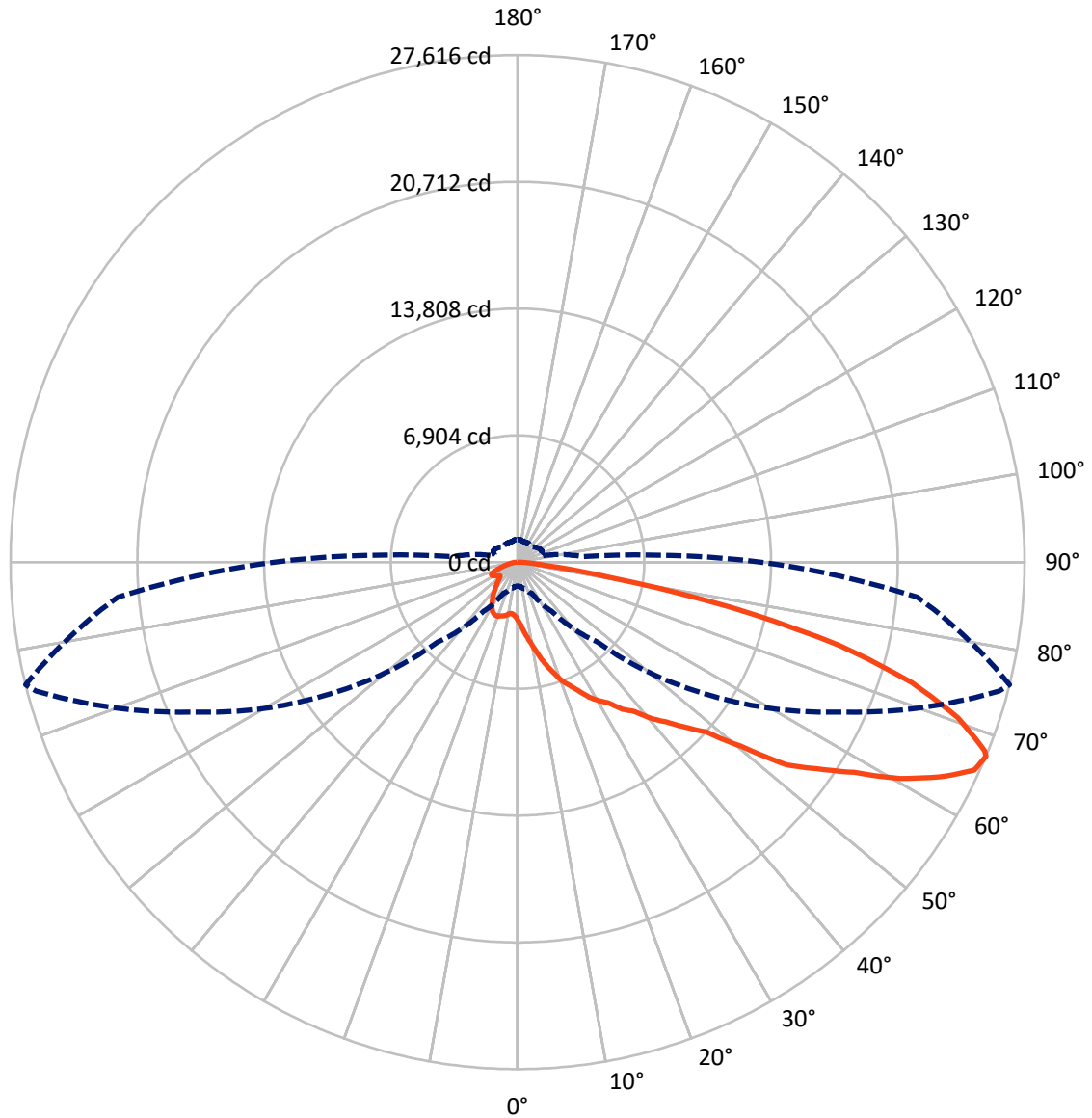
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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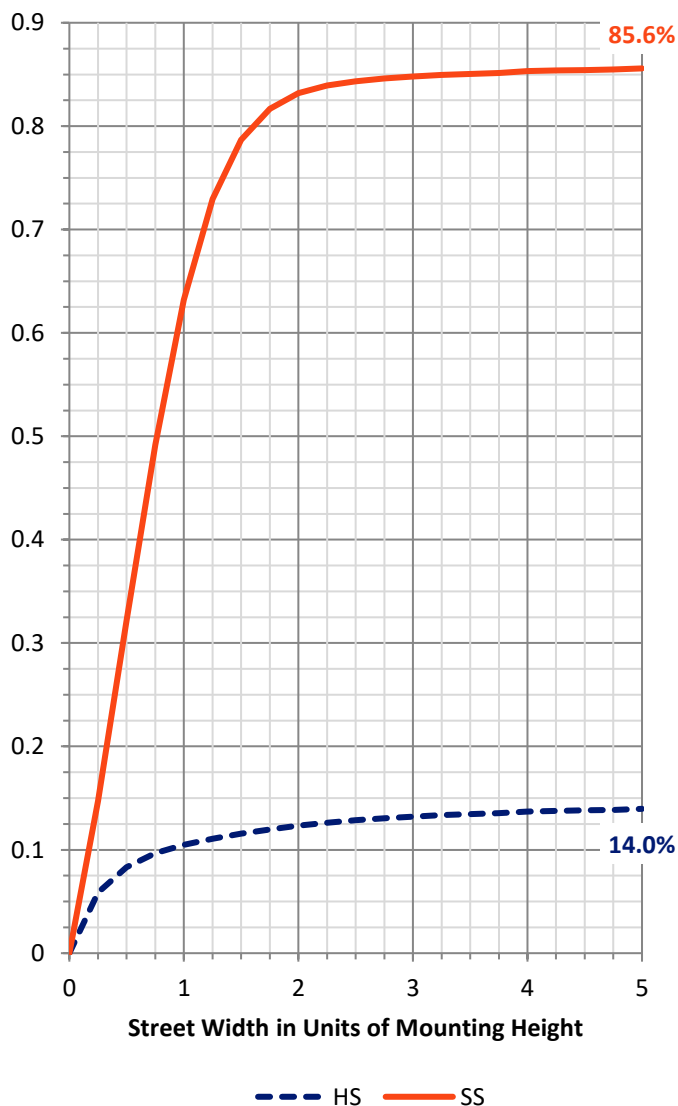
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4414.2	0.0	4414.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26614.5	0.0	26614.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	31028.8	0.0	31028.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	1.2
10°-20°	1379.5	4.4
20°-30°	2564.7	8.3
30°-40°	4065.6	13.1
40°-50°	5623.1	18.1
50°-60°	6916.7	22.3
60°-70°	6436.3	20.7
70°-80°	3229.7	10.4
80°-90°	445.3	1.4
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°	31028.8	100.0
0°-180°	31028.8	100.0

Coefficient of Utilization



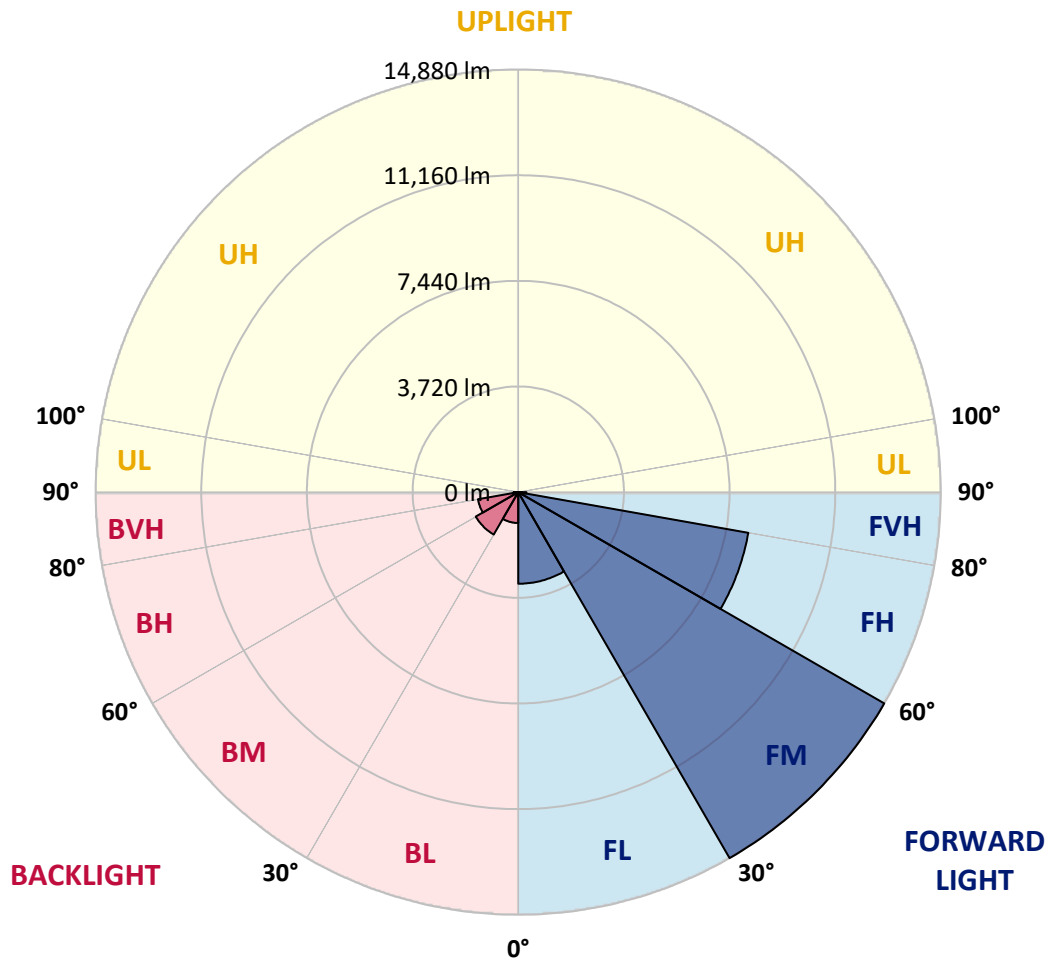
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3224.9	10.4			
FM (30°-60°)	14880.4	48.0			
FH (60°-80°)	8225.5	26.5			G4/12000
FVH (80°-90°)	283.7	0.9			G3/500
BL (0°-30°)	1087.0	3.5	B3/2500		
BM (30°-60°)	1725.0	5.6	B2/2500		
BH (60°-80°)	1440.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	161.6	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3
2.5°	4405.8	4352.8	4299.8	4186.6	4147.7	4041.6	3847.2	3631.5	3454.7	3429.9	3306.1
5°	5466.6	5388.8	5371.2	5307.5	5106.0	4900.9	4582.6	4236.1	3804.7	3836.5	3412.2
7.5°	6262.2	6216.3	6120.8	6060.7	5940.5	5668.2	5339.3	4879.7	4331.6	4225.5	3649.1
10°	6863.4	6799.7	6796.2	6743.1	6679.5	6400.1	6149.1	5530.3	4826.6	4681.6	3939.1
12.5°	7167.5	7156.8	7344.2	7344.2	7319.5	7202.8	6771.4	6205.7	5296.9	5247.4	4275.0
15°	7496.3	7407.9	7570.6	7694.3	7758.0	7818.1	7460.9	6863.4	5898.0	5802.6	4635.7
17.5°	7496.3	7489.2	7651.9	7857.0	8189.4	8267.1	8072.7	7468.0	6396.6	6325.9	5031.7
20°	7369.0	7471.5	7584.7	7860.5	8221.2	8535.9	8592.5	8086.8	6948.2	6891.6	5480.8
22.5°	7963.0	7864.0	7980.7	8086.8	8366.2	8843.5	8999.1	8631.3	7528.1	7312.4	5887.4
25°	8960.2	8893.0	8808.1	8652.6	8769.3	8977.9	9214.8	9034.5	8023.2	7782.7	6279.9
27.5°	9932.6	9936.1	9752.3	9412.8	9161.7	9204.2	9483.5	9388.1	8440.4	8334.3	6548.7
30°	11315.2	11230.3	11025.2	10565.5	10074.0	9670.9	9625.0	9716.9	8970.8	8765.7	6934.1
32.5°	12351.2	12368.9	12078.9	11417.7	10745.9	10417.0	10013.9	10052.8	9306.7	9154.7	7241.7
35°	13189.2	13168.0	12962.9	12414.9	11619.3	11223.2	10678.7	10455.9	10088.2	9847.7	7712.0
37.5°	14094.5	13921.2	13588.8	12970.0	12460.8	11912.7	11382.3	10880.2	10608.0	10318.0	8115.1
40°	14458.7	14458.7	14013.1	13730.2	13125.6	12711.9	12368.9	11438.9	11240.9	11184.3	8631.3
42.5°	14200.5	14359.7	14175.8	13854.0	13606.5	13083.2	12991.2	12018.8	12022.4	11909.2	9250.1
45°	14175.8	13956.5	13804.5	13885.8	13769.1	13740.9	13974.2	12821.5	12842.7	12828.6	10081.1
47.5°	13465.0	13366.0	13592.3	13726.7	13822.2	14260.6	14932.5	13779.8	13931.8	13825.7	11039.4
50°	12757.8	12740.2	12881.6	13369.6	13783.3	14504.6	15844.8	15257.8	15756.4	15749.3	12775.5
52.5°	10820.1	11007.5	11562.7	12595.2	13617.1	14837.0	16534.3	17146.0	18097.2	18355.3	14214.7
55°	8967.3	8868.3	9688.6	11187.9	12892.2	14967.8	17305.1	18281.1	19681.3	19868.7	15692.7
57.5°	6976.5	7160.4	7807.5	9246.6	11393.0	14320.8	17870.9	19402.0	21470.5	21615.5	17407.7
60°	5205.0	5229.7	5940.5	7100.3	9398.7	12860.4	18054.8	20551.2	23521.4	23935.1	19204.0
62.5°	3274.3	3422.8	3963.8	5106.0	7075.5	10816.6	17230.9	21247.8	25671.3	25780.9	21014.4
65°	1764.5	1859.9	2266.6	2984.4	4943.3	8182.3	15045.6	20830.5	26682.6	27333.2	21820.6
67°	1304.8	1322.5	1509.9	1905.9	3306.1	6159.7	12545.7	19320.6	27142.3	27616.1	21852.4
67.5°	1223.5	1248.2	1396.7	1711.4	2931.3	5671.7	11891.5	18783.2	26937.2	27446.3	21604.9
70°	1046.7	1053.7	1089.1	1177.5	1644.2	3412.2	8097.4	15392.2	24967.6	25455.6	19868.7
72.5°	930.0	937.0	951.2	968.9	1113.8	1973.1	4925.6	11845.6	21700.4	22478.3	17142.5
75°	816.8	841.6	848.6	834.5	947.6	1283.6	2620.2	8705.6	17701.2	18079.5	13330.7
77.5°	693.1	703.7	717.8	731.9	845.1	958.3	1258.8	5876.8	12149.7	11919.8	7209.9
80°	583.4	587.0	597.6	608.2	731.9	731.9	714.3	3175.3	5307.5	5074.1	2436.3
82.5°	417.2	442.0	466.8	495.0	608.2	491.5	466.8	1414.4	1679.6	1598.3	823.9
85°	162.7	198.0	307.6	339.5	385.4	265.2	311.2	611.7	700.1	693.1	307.6
87.5°	28.3	31.8	84.9	130.8	141.4	91.9	148.5	219.2	261.7	282.9	113.2
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°	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3	3175.3
2.5°	3203.6	3094.0	2963.2	2832.3	2747.5	2613.1	2602.5	2521.2	2510.6	2482.3	2496.4
5°	3228.4	3097.5	2832.3	2623.7	2528.2	2450.4	2468.1	2432.8	2422.2	2404.5	2376.2
7.5°	3422.8	3164.7	2768.7	2588.3	2517.6	2482.3	2482.3	2439.8	2408.0	2429.2	2450.4
10°	3550.1	3196.5	2818.2	2637.8	2581.3	2503.5	2531.8	2478.7	2496.4	2454.0	2454.0
12.5°	3755.2	3376.9	2920.7	2712.1	2620.2	2549.4	2577.7	2517.6	2503.5	2507.0	2496.4
15°	4031.0	3497.1	2966.7	2754.5	2690.9	2602.5	2581.3	2528.2	2475.2	2457.5	2478.7
17.5°	4289.2	3645.6	2998.5	2779.3	2676.7	2577.7	2553.0	2485.8	2468.1	2415.1	2372.6
20°	4596.8	3822.4	3041.0	2800.5	2623.7	2524.7	2461.0	2393.9	2333.8	2301.9	2316.1
22.5°	4801.9	3914.3	3062.2	2758.1	2545.9	2454.0	2319.6	2273.6	2188.8	2153.4	2125.1
25°	5137.8	4027.5	3009.1	2641.4	2408.0	2259.5	2139.3	2075.6	2015.5	1969.5	1955.4
27.5°	5222.7	4112.4	2885.4	2443.4	2188.8	2033.2	1930.7	1852.9	1814.0	1743.2	1729.1
30°	5470.2	4027.5	2701.5	2202.9	1980.2	1821.0	1718.5	1661.9	1570.0	1552.3	1513.4
32.5°	5629.3	4052.2	2468.1	1969.5	1739.7	1598.3	1531.1	1474.5	1449.8	1364.9	1343.7
35°	5894.5	3967.4	2231.2	1753.9	1541.7	1432.1	1375.5	1357.8	1276.5	1237.6	1202.2
37.5°	6064.2	3917.9	1994.3	1509.9	1326.0	1280.0	1297.7	1223.5	1124.4	1050.2	1025.4
40°	6361.2	3900.2	1725.6	1308.3	1177.5	1166.9	1223.5	1082.0	901.7	838.0	802.7
42.5°	6789.1	3780.0	1516.9	1128.0	1060.8	1106.8	1117.4	901.7	799.1	746.1	721.3
45°	7199.3	3804.7	1311.9	933.5	922.9	990.1	965.3	763.8	703.7	664.8	686.0
47.5°	7987.8	3928.5	1110.3	777.9	831.0	894.6	749.6	682.4	625.9	597.6	601.1
50°	9207.7	4048.7	933.5	710.7	785.0	809.7	643.6	618.8	615.3	558.7	555.2
52.5°	9939.7	4002.7	901.7	795.6	841.6	809.7	700.1	682.4	654.2	629.4	601.1
55°	11103.0	4137.1	968.9	930.0	954.7	777.9	785.0	777.9	756.7	693.1	710.7
57.5°	12029.4	4225.5	1057.3	1039.6	1025.4	809.7	820.3	823.9	809.7	781.5	806.2
60°	13302.4	4402.3	1149.2	1152.7	1156.3	880.5	898.1	919.4	915.8	905.2	912.3
62.5°	14083.8	4321.0	1251.7	1308.3	1290.6	1025.4	1021.9	1036.0	1036.0	1053.7	1064.3
65°	13967.2	4020.4	1304.8	1446.2	1354.3	1131.5	1131.5	1138.6	1142.1	1177.5	1181.0
67°	13267.0	3482.9	1276.5	1467.4	1354.3	1173.9	1173.9	1181.0	1156.3	1248.2	1219.9
67.5°	12941.7	3323.8	1251.7	1449.8	1343.7	1170.4	1170.4	1173.9	1152.7	1241.1	1212.8
70°	11255.1	2468.1	1078.5	1283.6	1244.7	1138.6	1138.6	1117.4	1099.7	1216.4	1191.6
72.5°	9607.3	1792.7	866.3	1092.6	1124.4	1096.2	1103.2	1050.2	1000.7	1082.0	1060.8
75°	7358.4	1318.9	675.4	841.6	951.2	1025.4	1071.4	937.0	873.4	894.6	855.7
77.5°	4105.3	859.2	533.9	622.3	724.9	954.7	1029.0	845.1	714.3	689.5	689.5
80°	1393.2	502.1	392.5	463.2	498.6	845.1	961.8	686.0	562.2	537.5	519.8
82.5°	526.9	307.6	268.7	318.2	318.2	668.3	785.0	526.9	424.3	548.1	558.7
85°	240.4	183.9	176.8	183.9	183.9	410.2	555.2	343.0	381.9	328.8	290.0
87.5°	95.5	88.4	81.3	77.8	63.6	70.7	190.9	91.9	173.3	46.0	42.4
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)