

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: P477008

Luminaire Tested: **IFLD-M-SA4C-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

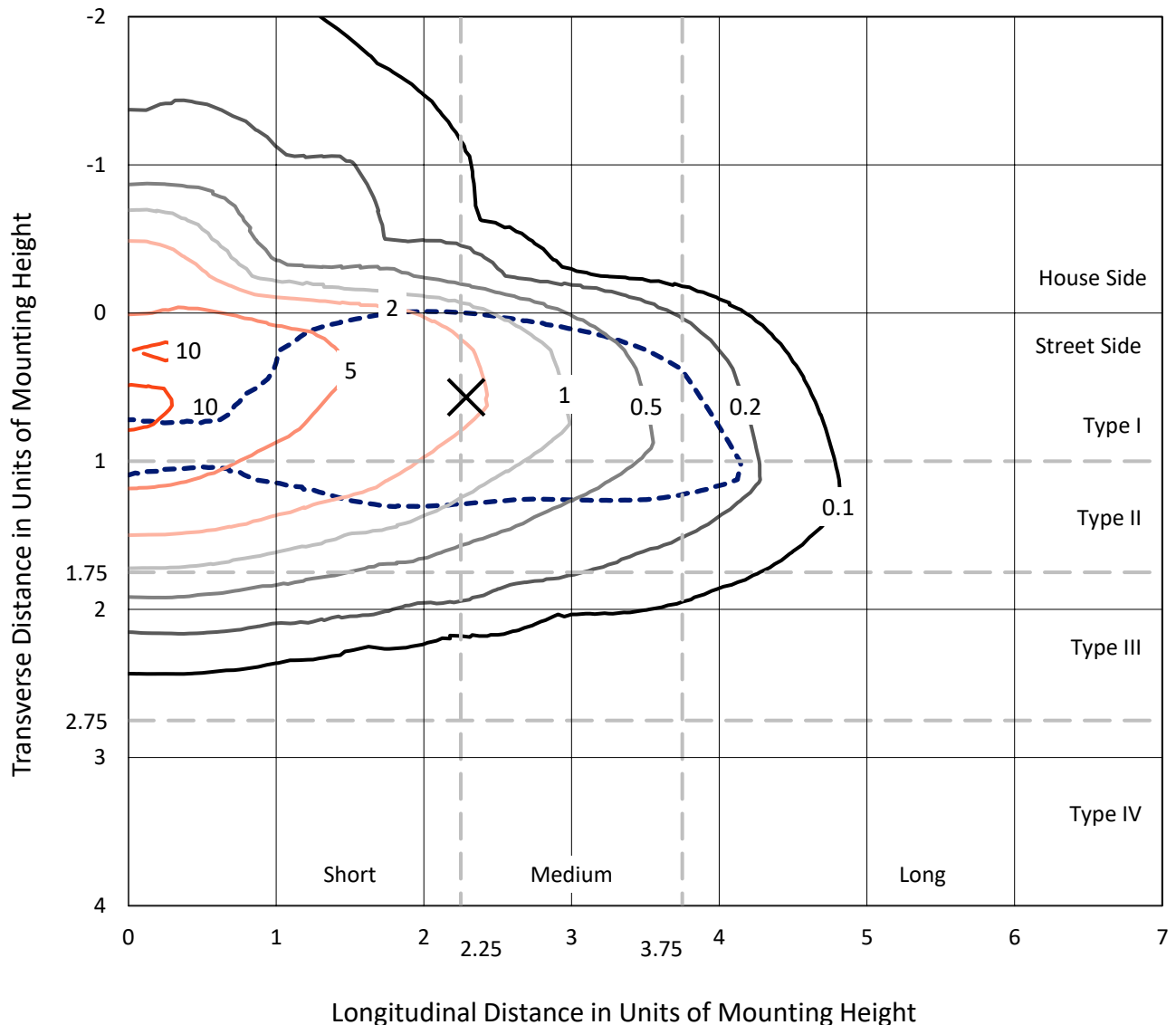
Lumens per Lamp: N/A
Luminaire Lumens: 28591.5 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

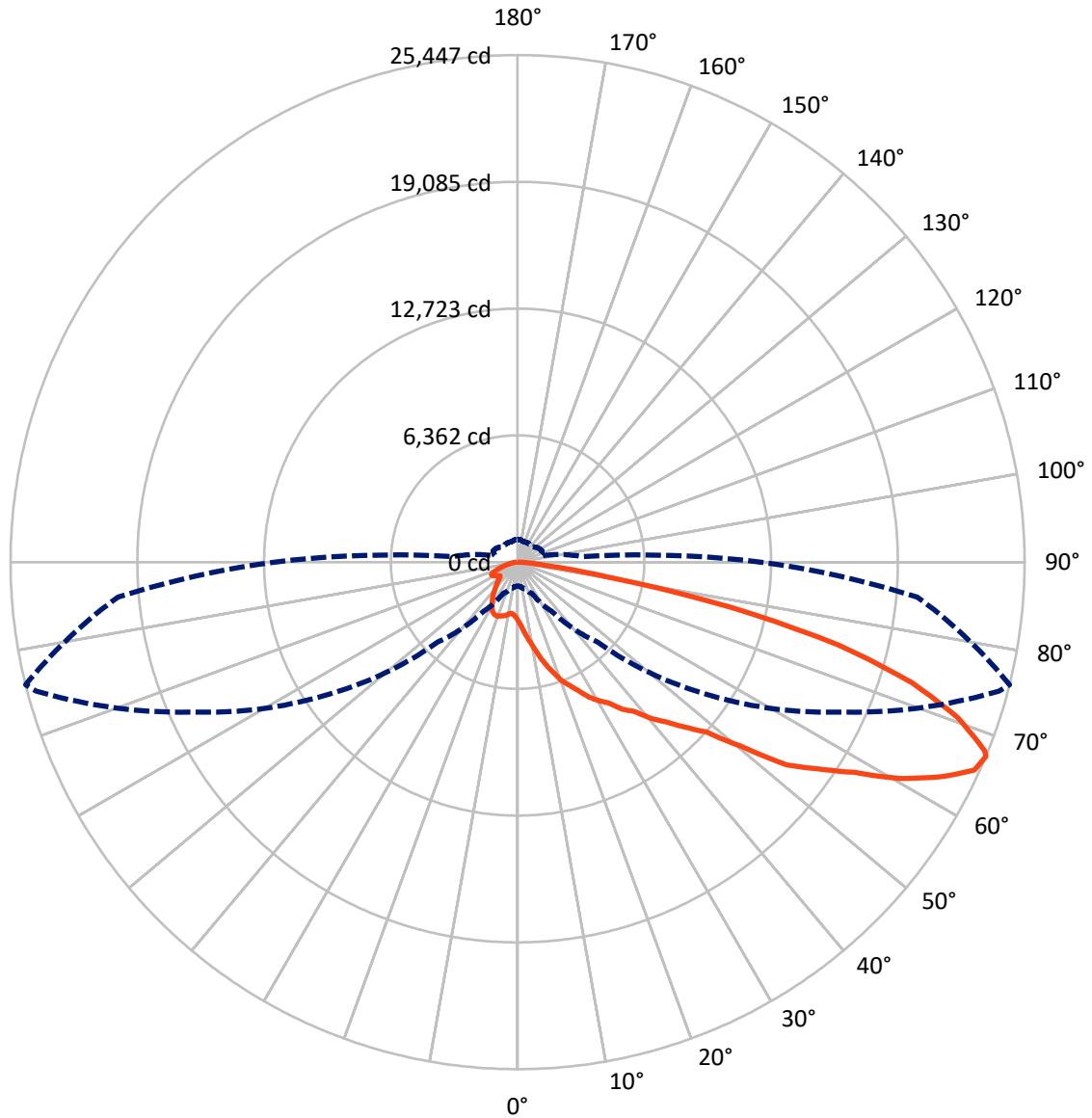
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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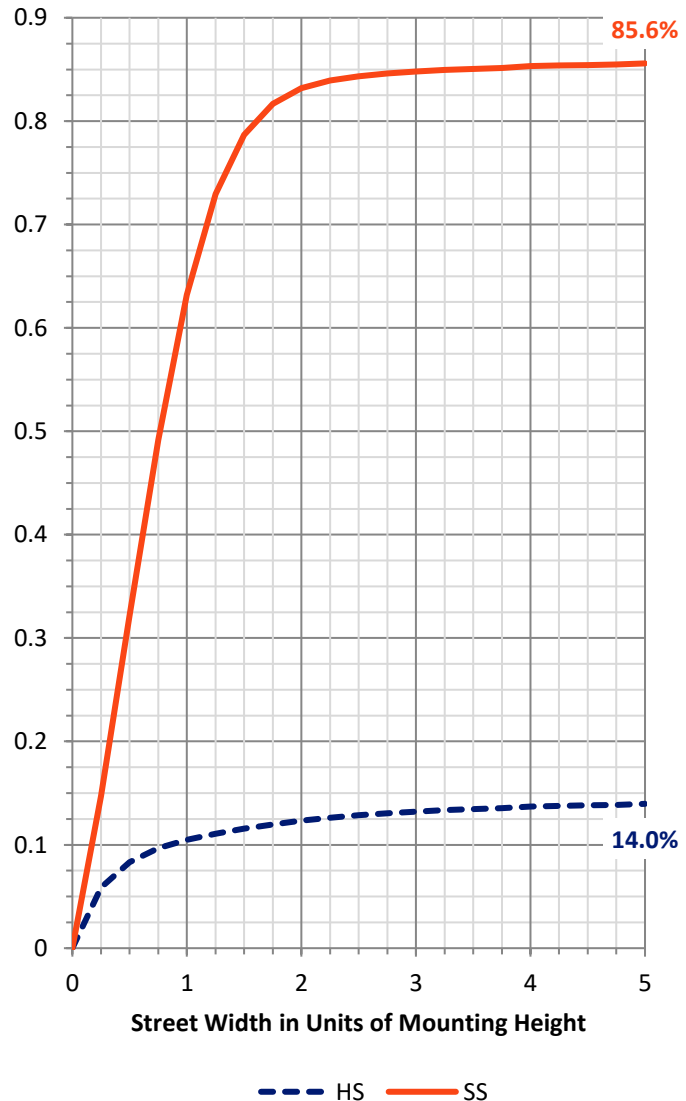
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4067.5	0.0	4067.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24524.0	0.0	24524.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	28591.5	0.0	28591.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.9	1.2
10°-20°	1271.1	4.4
20°-30°	2363.2	8.3
30°-40°	3746.2	13.1
40°-50°	5181.4	18.1
50°-60°	6373.4	22.3
60°-70°	5930.8	20.7
70°-80°	2976.0	10.4
80°-90°	410.4	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°	28591.5	100.0
0°-180°	28591.5	100.0

Coefficient of Utilization

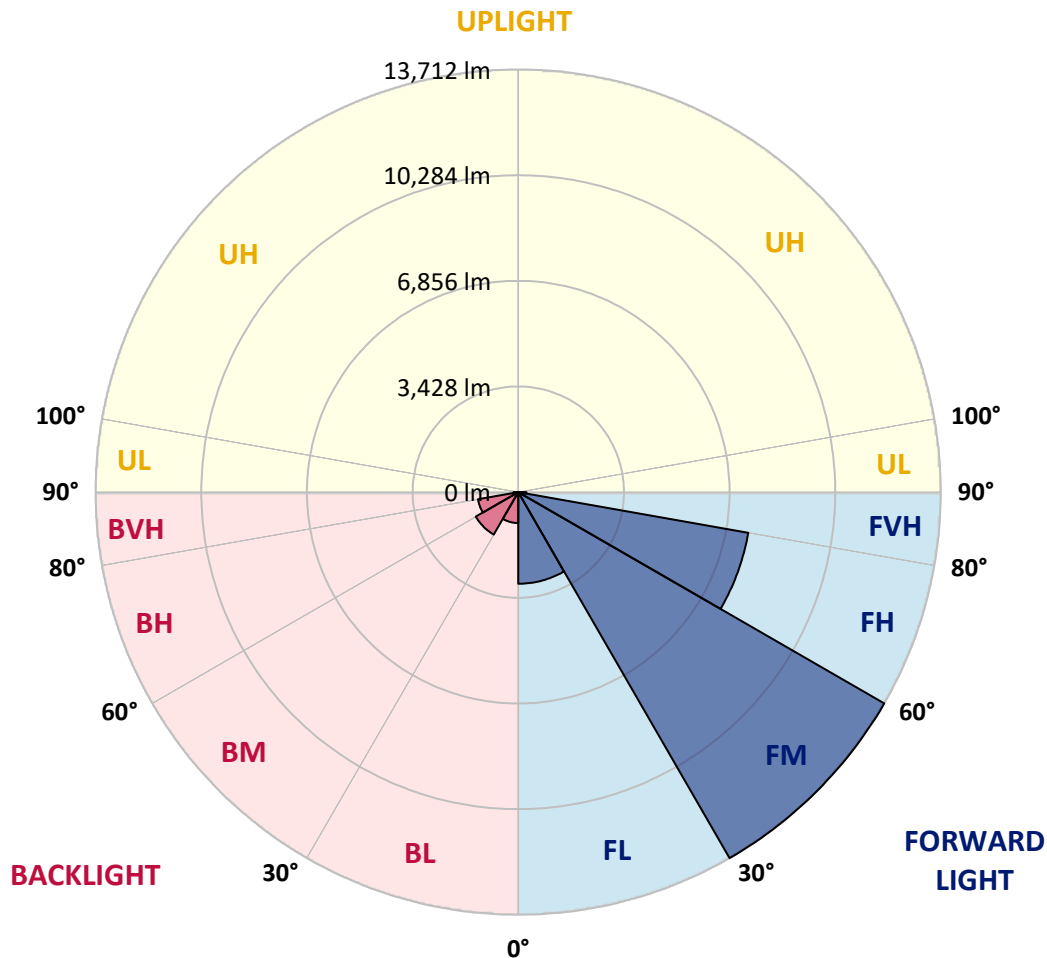


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2971.6	10.4			
FM (30°-60°)	13711.5	48.0			
FH (60°-80°)	7579.4	26.5			G4/12000
FVH (80°-90°)	261.4	0.9			G3/500
BL (0°-30°)	1001.7	3.5	B3/2500		
BM (30°-60°)	1589.5	5.6	B2/2500		
BH (60°-80°)	1327.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	148.9	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°	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9
2.5°	4059.8	4010.9	3962.0	3857.8	3821.9	3724.2	3545.0	3346.2	3183.3	3160.5	3046.5
5°	5037.2	4965.6	4949.3	4890.6	4704.9	4515.9	4222.7	3903.4	3505.9	3535.2	3144.2
7.5°	5770.3	5728.0	5640.0	5584.6	5473.8	5223.0	4919.9	4496.4	3991.3	3893.6	3362.5
10°	6324.2	6265.6	6262.3	6213.5	6154.8	5897.4	5666.1	5095.9	4447.5	4313.9	3629.7
12.5°	6604.5	6594.7	6767.4	6767.4	6744.6	6637.0	6239.5	5718.2	4880.8	4835.2	3939.2
15°	6907.5	6826.0	6975.9	7089.9	7148.6	7204.0	6874.9	6324.2	5434.7	5346.8	4271.6
17.5°	6907.5	6901.0	7050.8	7239.8	7546.1	7617.8	7438.6	6881.4	5894.2	5829.0	4636.5
20°	6790.2	6884.7	6988.9	7243.1	7575.4	7865.4	7917.5	7451.6	6402.4	6350.3	5050.3
22.5°	7337.6	7246.3	7353.8	7451.6	7709.0	8148.9	8292.2	7953.4	6936.8	6738.0	5425.0
25°	8256.4	8194.5	8116.3	7972.9	8080.4	8272.7	8491.0	8324.8	7392.9	7171.4	5786.6
27.5°	9152.4	9155.7	8986.2	8673.4	8442.1	8481.2	8738.6	8650.6	7777.4	7679.7	6034.3
30°	10426.4	10348.2	10159.2	9735.6	9282.7	8911.3	8868.9	8953.6	8266.2	8077.2	6389.4
32.5°	11381.0	11397.3	11130.2	10520.9	9901.8	9598.8	9227.3	9263.2	8575.7	8435.6	6672.9
35°	12153.2	12133.7	11944.7	11439.7	10706.6	10341.7	9839.9	9634.6	9295.8	9074.2	7106.2
37.5°	12987.3	12827.7	12521.4	11951.2	11482.0	10977.0	10488.3	10025.6	9774.7	9507.5	7477.7
40°	13322.9	13322.9	12912.4	12651.7	12094.6	11713.4	11397.3	10540.4	10357.9	10305.8	7953.4
42.5°	13085.1	13231.7	13062.3	12765.8	12537.7	12055.5	11970.8	11074.8	11078.0	10973.8	8523.6
45°	13062.3	12860.3	12720.2	12795.1	12687.6	12661.5	12876.6	11814.4	11833.9	11820.9	9289.2
47.5°	12407.4	12316.2	12524.7	12648.5	12736.5	13140.5	13759.6	12697.4	12837.5	12739.7	10172.2
50°	11755.7	11739.4	11869.8	12319.4	12700.6	13365.3	14600.2	14059.3	14518.7	14512.2	11772.0
52.5°	9970.2	10142.9	10654.4	11605.9	12547.5	13671.6	15235.5	15799.2	16675.7	16913.5	13098.1
55°	8262.9	8171.7	8927.6	10309.1	11879.5	13792.1	15945.8	16845.1	18135.4	18308.1	14460.1
57.5°	6428.5	6597.9	7194.2	8520.3	10498.1	13195.9	16467.1	17878.0	19784.0	19917.6	16040.3
60°	4796.1	4818.9	5473.8	6542.5	8660.4	11850.2	16636.6	18936.9	21673.8	22055.0	17695.5
62.5°	3017.1	3154.0	3652.5	4704.9	6519.7	9967.0	15877.4	19578.8	23654.8	23755.8	19363.7
65°	1625.9	1713.8	2088.5	2750.0	4555.0	7539.6	13863.8	19194.3	24586.7	25186.2	20106.6
67°	1202.3	1218.6	1391.3	1756.2	3046.5	5675.9	11560.2	17803.0	25010.3	25446.9	20135.9
67.5°	1127.4	1150.2	1287.0	1577.0	2701.1	5226.2	10957.5	17307.8	24821.3	25290.5	19907.9
70°	964.4	971.0	1003.5	1085.0	1515.1	3144.2	7461.4	14183.1	23006.4	23456.1	18308.1
72.5°	856.9	863.4	876.5	892.8	1026.3	1818.1	4538.7	10915.1	19995.8	20712.6	15796.0
75°	752.7	775.5	782.0	768.9	873.2	1182.7	2414.4	8021.8	16310.8	16659.4	12283.6
77.5°	638.6	648.4	661.4	674.5	778.7	883.0	1159.9	5415.2	11195.3	10983.5	6643.6
80°	537.6	540.9	550.6	560.4	674.5	674.5	658.2	2925.9	4890.6	4675.6	2244.9
82.5°	384.5	407.3	430.1	456.2	560.4	452.9	430.1	1303.3	1547.7	1472.7	759.2
85°	149.9	182.5	283.5	312.8	355.1	244.4	286.7	563.7	645.1	638.6	283.5
87.5°	26.1	29.3	78.2	120.6	130.3	84.7	136.8	202.0	241.1	260.7	104.3
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°	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9
2.5°	2952.0	2851.0	2730.4	2609.9	2531.7	2407.8	2398.1	2323.1	2313.4	2287.3	2300.3
5°	2974.8	2854.2	2609.9	2417.6	2329.6	2258.0	2274.3	2241.7	2231.9	2215.6	2189.5
7.5°	3154.0	2916.1	2551.2	2385.0	2319.9	2287.3	2287.3	2248.2	2218.9	2238.4	2258.0
10°	3271.3	2945.4	2596.8	2430.6	2378.5	2306.8	2332.9	2284.0	2300.3	2261.2	2261.2
12.5°	3460.3	3111.6	2691.3	2499.1	2414.4	2349.2	2375.3	2319.9	2306.8	2310.1	2300.3
15°	3714.4	3222.4	2733.7	2538.2	2479.5	2398.1	2378.5	2329.6	2280.8	2264.5	2284.0
17.5°	3952.2	3359.2	2763.0	2561.0	2466.5	2375.3	2352.4	2290.5	2274.3	2225.4	2186.3
20°	4235.7	3522.2	2802.1	2580.5	2417.6	2326.4	2267.7	2205.8	2150.4	2121.1	2134.1
22.5°	4424.7	3606.9	2821.6	2541.4	2345.9	2261.2	2137.4	2095.0	2016.9	1984.3	1958.2
25°	4734.2	3711.1	2772.8	2433.9	2218.9	2082.0	1971.2	1912.6	1857.2	1814.8	1801.8
27.5°	4812.4	3789.3	2658.7	2251.4	2016.9	1873.5	1779.0	1707.3	1671.5	1606.3	1593.3
30°	5040.5	3711.1	2489.3	2029.9	1824.6	1678.0	1583.5	1531.4	1446.7	1430.4	1394.5
32.5°	5187.1	3733.9	2274.3	1814.8	1603.1	1472.7	1410.8	1358.7	1335.9	1257.7	1238.1
35°	5431.5	3655.7	2055.9	1616.1	1420.6	1319.6	1267.5	1251.2	1176.2	1140.4	1107.8
37.5°	5587.9	3610.1	1837.6	1391.3	1221.8	1179.5	1195.8	1127.4	1036.1	967.7	944.9
40°	5861.6	3593.8	1590.0	1205.5	1085.0	1075.2	1127.4	997.0	830.9	772.2	739.6
42.5°	6255.8	3483.1	1397.8	1039.4	977.5	1019.8	1029.6	830.9	736.4	687.5	664.7
45°	6633.8	3505.9	1208.8	860.2	850.4	912.3	889.5	703.8	648.4	612.5	632.1
47.5°	7360.4	3619.9	1023.1	716.8	765.7	824.3	690.7	628.8	576.7	550.6	553.9
50°	8484.5	3730.7	860.2	654.9	723.3	746.1	593.0	570.2	566.9	514.8	511.5
52.5°	9158.9	3688.3	830.9	733.1	775.5	746.1	645.1	628.8	602.8	580.0	553.9
55°	10230.9	3812.1	892.8	856.9	879.7	716.8	723.3	716.8	697.3	638.6	654.9
57.5°	11084.5	3893.6	974.2	957.9	944.9	746.1	755.9	759.2	746.1	720.1	742.9
60°	12257.5	4056.5	1058.9	1062.2	1065.4	811.3	827.6	847.1	843.9	834.1	840.6
62.5°	12977.6	3981.6	1153.4	1205.5	1189.3	944.9	941.6	954.7	954.7	971.0	980.7
65°	12870.1	3704.6	1202.3	1332.6	1247.9	1042.6	1042.6	1049.2	1052.4	1085.0	1088.3
67°	12224.9	3209.4	1176.2	1352.2	1247.9	1081.7	1081.7	1088.3	1065.4	1150.2	1124.1
67.5°	11925.2	3062.7	1153.4	1335.9	1238.1	1078.5	1078.5	1081.7	1062.2	1143.6	1117.6
70°	10371.0	2274.3	993.8	1182.7	1146.9	1049.2	1049.2	1029.6	1013.3	1120.8	1098.0
72.5°	8852.6	1651.9	798.3	1006.8	1036.1	1010.1	1016.6	967.7	922.1	997.0	977.5
75°	6780.4	1215.3	622.3	775.5	876.5	944.9	987.2	863.4	804.8	824.3	788.5
77.5°	3782.8	791.8	492.0	573.5	667.9	879.7	948.1	778.7	658.2	635.4	635.4
80°	1283.7	462.7	361.7	426.8	459.4	778.7	886.2	632.1	518.1	495.3	479.0
82.5°	485.5	283.5	247.6	293.2	293.2	615.8	723.3	485.5	391.0	505.0	514.8
85°	221.6	169.4	162.9	169.4	169.4	378.0	511.5	316.0	351.9	303.0	267.2
87.5°	88.0	81.5	74.9	71.7	58.6	65.2	175.9	84.7	159.7	42.4	39.1
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)