

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: P476540

Luminaire Tested: **IFLD-M-SA4C-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476540
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

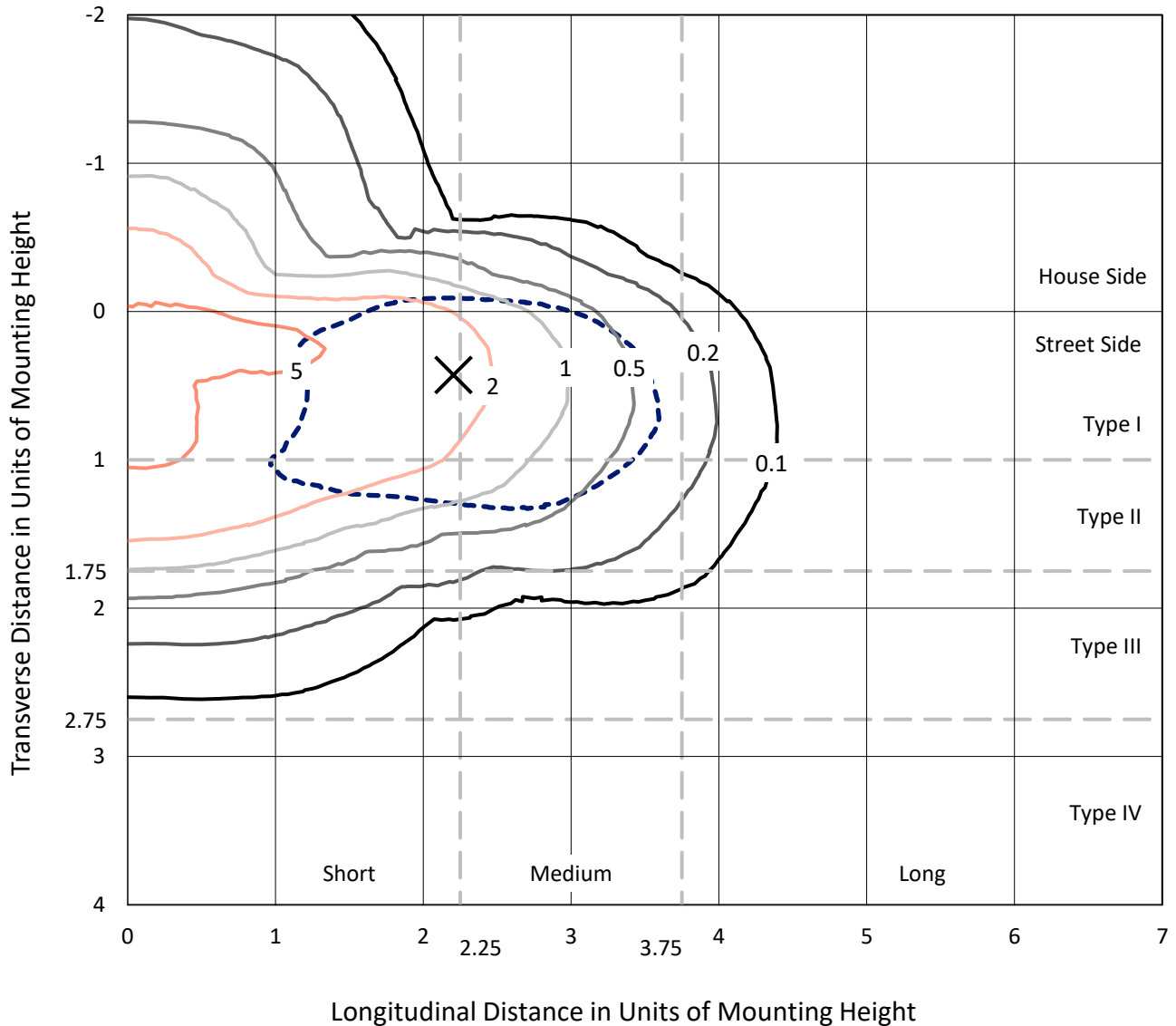
Lumens per Lamp: N/A
Luminaire Lumens: 25858.7 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

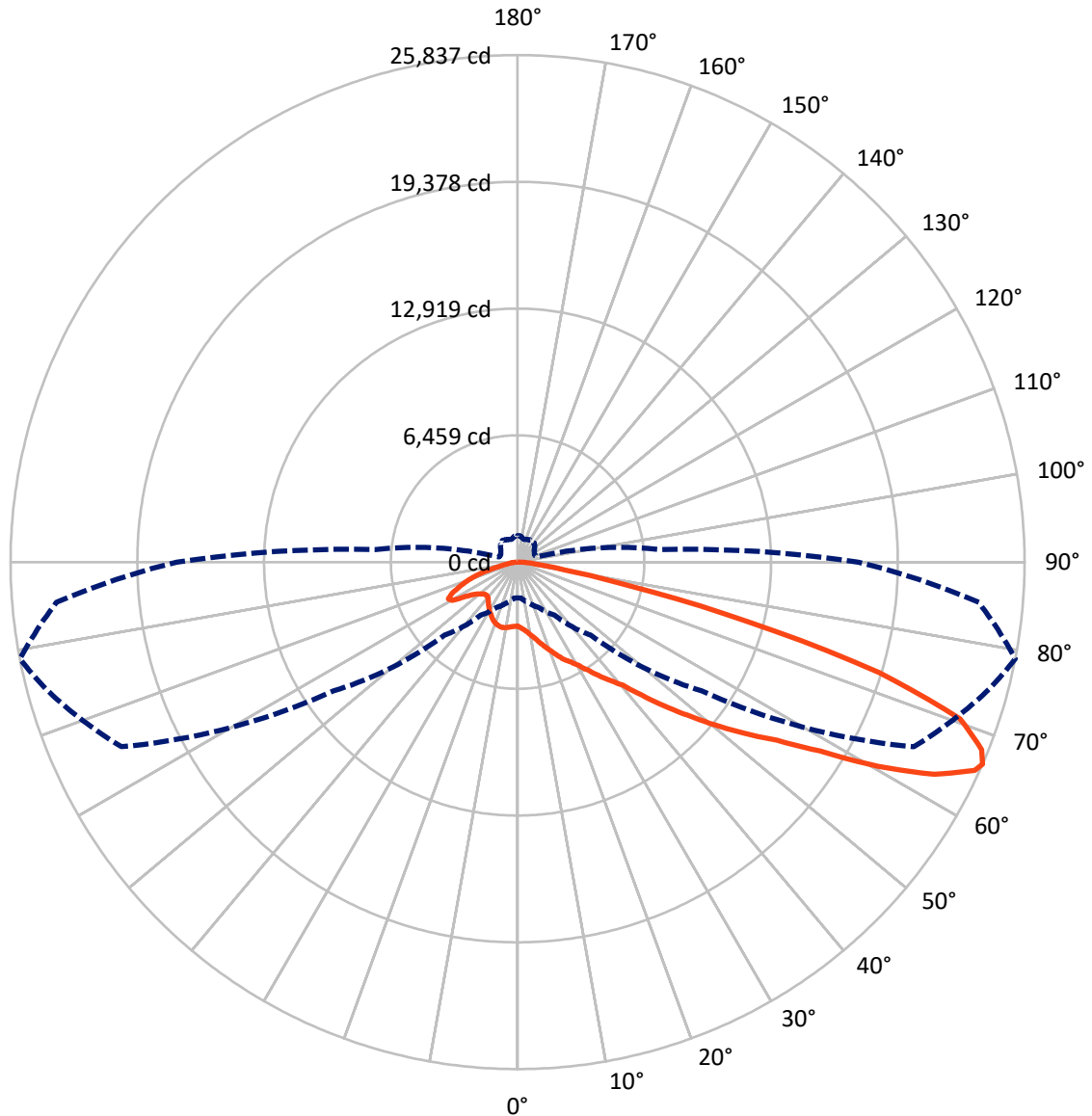
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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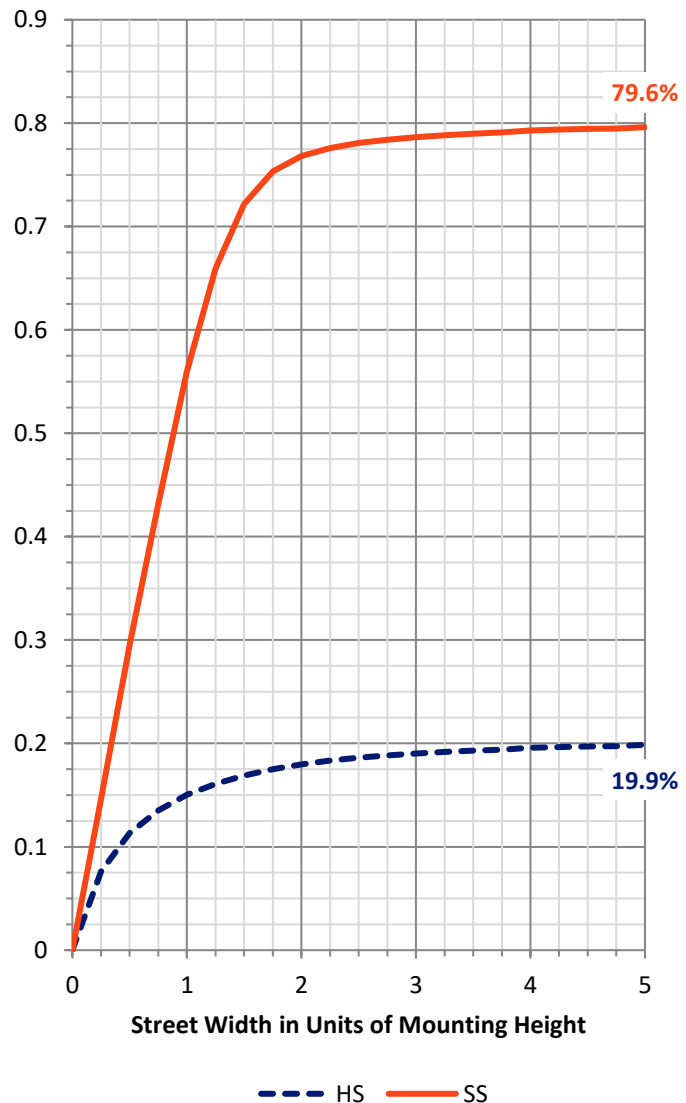
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5221.8	0.0	5221.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	20636.9	0.0	20636.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	25858.7	0.0	25858.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	1.2
10°-20°	991.4	3.8
20°-30°	1701.8	6.6
30°-40°	2629.0	10.2
40°-50°	4211.0	16.3
50°-60°	6287.3	24.3
60°-70°	6460.3	25.0
70°-80°	2863.7	11.1
80°-90°	392.9	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°	25858.7	100.0
0°-180°	25858.7	100.0

Coefficient of Utilization



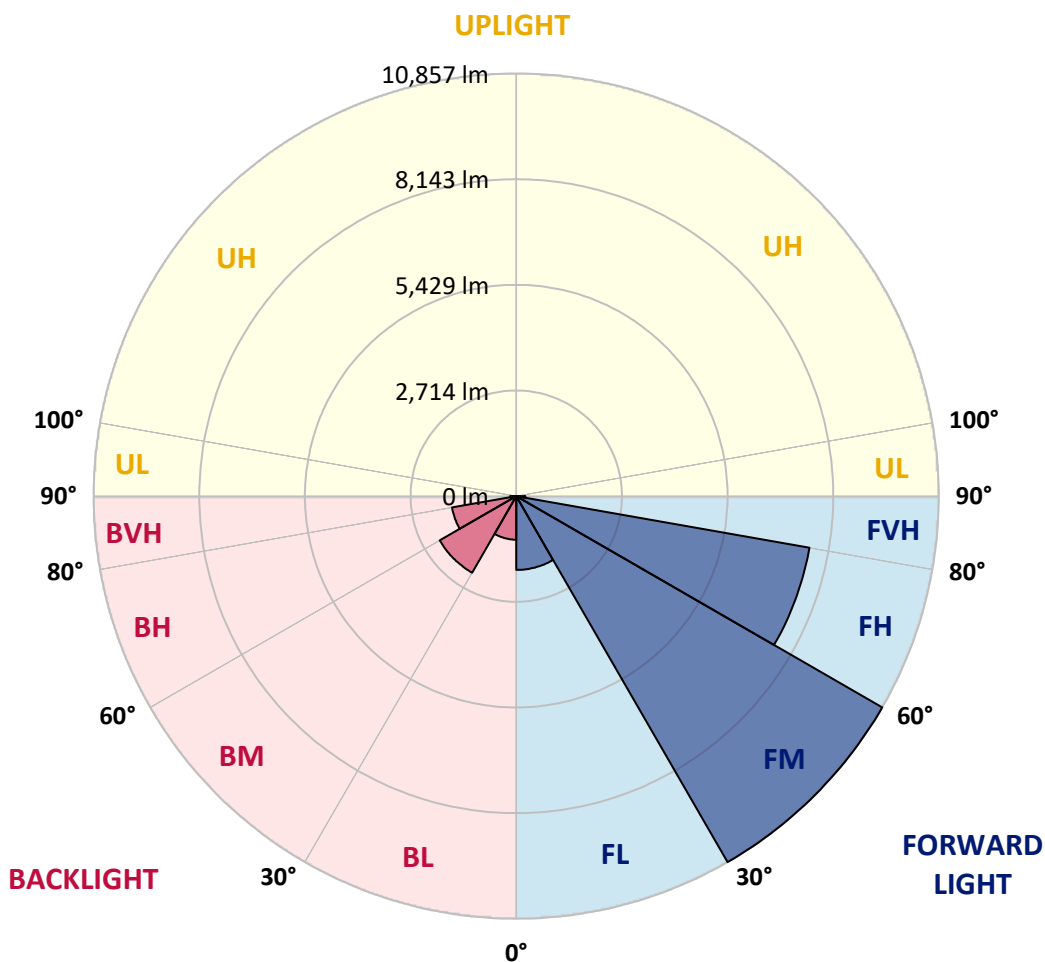
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1895.6	7.3			
FM (30°-60°)	10857.2	42.0			
FH (60°-80°)	7648.4	29.6			G4/12000
FVH (80°-90°)	235.7	0.9			G3/500
BL (0°-30°)	1118.8	4.3	B3/2500		
BM (30°-60°)	2270.2	8.8	B2/2500		
BH (60°-80°)	1675.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	157.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2
2.5°	3472.9	3475.7	3475.7	3464.3	3467.2	3475.7	3444.4	3376.2	3376.2	3364.8	3344.9
5°	3686.2	3672.0	3652.1	3654.9	3643.5	3643.5	3609.4	3544.0	3487.1	3464.3	3404.6
7.5°	3714.6	3728.8	3726.0	3760.1	3777.2	3777.2	3794.3	3740.2	3654.9	3600.9	3541.1
10°	3771.5	3734.5	3731.7	3811.3	3836.9	3896.7	3964.9	3936.5	3865.4	3788.6	3708.9
12.5°	3805.6	3828.4	3828.4	3868.2	3927.9	4016.1	4135.6	4189.6	4078.7	3999.1	3876.7
15°	3856.8	3825.6	3916.6	3950.7	4064.5	4127.0	4297.7	4437.1	4363.1	4266.4	4073.0
17.5°	3879.6	3859.7	3910.9	3973.5	4166.9	4260.7	4468.4	4661.8	4599.2	4536.6	4337.5
20°	3996.2	3993.4	4016.1	4067.3	4206.7	4391.6	4650.4	4917.8	4940.5	4826.7	4556.5
22.5°	4280.6	4243.7	4243.7	4223.8	4283.5	4474.0	4823.9	5193.6	5296.0	5162.4	4804.0
25°	4542.3	4593.5	4562.2	4471.2	4448.4	4548.0	4949.0	5486.6	5623.1	5498.0	5139.6
27.5°	4877.9	4895.0	4949.0	4826.7	4670.3	4701.6	5085.6	5651.6	5933.2	5765.3	5330.2
30°	5361.5	5330.2	5318.8	5182.3	4977.5	4934.8	5242.0	5893.3	6339.9	6103.8	5554.9
32.5°	5688.6	5765.3	5762.5	5574.8	5327.3	5233.5	5435.4	6120.9	6775.1	6556.1	5970.1
35°	6337.0	6416.7	6354.1	6078.2	5788.1	5600.4	5714.2	6416.7	7272.8	7102.2	6322.8
37.5°	7164.7	7352.5	7218.8	6709.6	6300.1	6095.3	6101.0	6738.1	7781.9	7642.6	6701.1
40°	7736.4	7989.6	7804.7	7326.9	6891.7	6698.3	6621.5	7119.2	8390.6	8242.7	7292.7
42.5°	8444.7	8655.1	8558.4	8086.3	7577.2	7412.2	7258.6	7756.3	9320.7	9252.4	8052.1
45°	9218.3	9317.8	9286.6	8987.9	8421.9	8365.0	8026.5	8595.4	10415.7	10444.2	9002.1
47.5°	9937.9	9991.9	10051.7	9835.5	9482.8	9531.2	8911.1	9494.2	11479.5	11667.2	10060.2
50°	10122.8	10307.7	10447.0	10592.1	10668.9	10996.0	9886.7	10597.8	12702.5	13066.6	11237.7
52.5°	9935.1	9920.8	10344.6	10799.7	11567.7	12253.1	11215.0	11968.7	13783.4	14503.0	12315.7
55°	9081.8	9053.3	9736.0	10338.9	11837.9	12952.8	13112.1	13794.7	15088.9	16024.7	13774.8
57.5°	7588.5	7412.2	8157.4	9147.2	11252.0	13029.6	15017.8	16505.3	17096.9	18163.5	16001.9
60°	5099.8	5025.8	5739.7	6920.1	9135.8	11940.3	16158.3	19898.6	19927.0	21127.3	19457.7
62.5°	3140.1	3154.3	3612.2	4496.8	6396.8	9465.8	15666.3	22609.2	22614.8	23818.0	22302.0
65°	2053.6	2062.1	2431.9	2921.1	3996.2	6419.5	12955.7	22822.5	24483.5	25601.3	23604.7
66°	1828.9	1831.7	2150.3	2548.5	3310.7	5253.4	11442.5	22267.8	24904.5	25837.4	23587.6
67.5°	1541.6	1578.6	1834.6	2141.7	2582.6	3774.4	9078.9	20663.7	24688.3	25507.5	23052.9
70°	1206.0	1225.9	1427.8	1740.7	1937.0	2184.4	5395.6	16843.8	22597.8	23926.1	21107.4
72.5°	967.1	984.1	1137.7	1413.6	1572.9	1439.2	2938.1	12221.9	17850.7	19267.1	16602.0
75°	816.3	819.2	893.1	1112.1	1294.1	1080.8	1564.4	7844.5	11453.9	12113.8	10171.1
77.5°	659.9	671.2	722.4	847.6	1041.0	850.4	932.9	4394.4	5751.1	5799.5	4701.6
80°	537.6	543.3	574.5	617.2	793.6	628.6	631.4	2144.6	2466.0	2409.1	1911.4
82.5°	423.8	429.5	466.5	457.9	583.1	449.4	392.5	1032.5	1134.9	1112.1	878.9
85°	238.9	238.9	366.9	366.9	369.8	284.4	238.9	486.4	600.1	560.3	412.4
87.5°	76.8	79.6	110.9	116.6	184.9	128.0	116.6	182.0	284.4	250.3	147.9
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°	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2
2.5°	3333.5	3288.0	3268.1	3202.7	3185.6	3142.9	3123.0	3097.4	3088.9	3051.9	3086.0
5°	3359.1	3344.9	3265.2	3182.7	3120.2	3091.7	3049.1	2992.2	2986.5	2935.3	2929.6
7.5°	3467.2	3418.8	3279.5	3191.3	3066.1	2995.0	2901.2	2872.7	2835.7	2818.7	2855.7
10°	3635.0	3512.7	3305.0	3083.2	2929.6	2844.3	2776.0	2756.1	2758.9	2747.6	2730.5
12.5°	3754.4	3637.8	3262.4	2992.2	2793.1	2710.6	2704.9	2724.8	2756.1	2741.9	2761.8
15°	3925.1	3706.1	3231.1	2841.4	2682.2	2659.4	2656.6	2716.3	2713.4	2713.4	2710.6
17.5°	4084.4	3774.4	3117.3	2710.6	2565.5	2582.6	2602.5	2599.7	2628.1	2639.5	2659.4
20°	4286.3	3854.0	2958.0	2579.8	2477.4	2471.7	2468.8	2471.7	2500.1	2517.2	2503.0
22.5°	4462.7	3871.1	2824.4	2454.6	2372.1	2349.4	2312.4	2349.4	2335.2	2340.8	2357.9
25°	4616.3	3873.9	2633.8	2360.7	2266.9	2215.7	2187.2	2184.4	2158.8	2156.0	2156.0
27.5°	4744.3	3777.2	2466.0	2229.9	2141.7	2093.4	2090.5	2059.3	1993.8	1951.2	1956.9
30°	4843.8	3703.2	2349.4	2116.1	2030.8	2022.3	1996.7	1925.6	1840.2	1786.2	1786.2
32.5°	5020.1	3555.3	2190.1	1999.5	1956.9	1945.5	1885.8	1823.2	1743.5	1692.3	1683.8
35°	5151.0	3418.8	2084.9	1900.0	1880.1	1857.3	1806.1	1737.9	1715.1	1703.7	1712.3
37.5°	5298.9	3265.2	1956.9	1814.6	1834.6	1791.9	1732.2	1700.9	1780.5	1760.6	1769.1
40°	5535.0	3157.1	1831.7	1763.5	1783.4	1735.0	1658.2	1646.8	1746.4	1675.3	1658.2
42.5°	5967.3	3154.3	1754.9	1686.7	1700.9	1663.9	1595.6	1590.0	1629.8	1544.4	1518.8
45°	6504.9	3253.9	1698.0	1629.8	1618.4	1612.7	1590.0	1564.4	1530.2	1419.3	1390.9
47.5°	7147.7	3416.0	1686.7	1544.4	1558.7	1607.0	1578.6	1513.2	1425.0	1353.9	1339.7
50°	7927.0	3751.6	1658.2	1481.9	1507.5	1584.3	1561.5	1470.5	1390.9	1345.3	1336.8
52.5°	8788.8	4175.4	1621.2	1385.2	1442.0	1564.4	1575.7	1490.4	1373.8	1334.0	1328.3
55°	9804.2	4801.1	1578.6	1279.9	1365.3	1544.4	1575.7	1433.5	1351.0	1351.0	1345.3
57.5°	11809.4	5927.5	1490.4	1183.2	1297.0	1507.5	1530.2	1436.4	1353.9	1353.9	1342.5
60°	14750.4	7685.2	1322.6	1109.3	1231.6	1456.3	1496.1	1393.7	1322.6	1339.7	1336.8
62.5°	17051.4	8220.0	1180.4	1038.2	1166.2	1362.4	1450.6	1348.2	1285.6	1348.2	1353.9
65°	17543.5	7679.5	1035.3	961.4	1075.1	1271.4	1385.2	1282.8	1231.6	1353.9	1359.6
66°	17367.2	7258.6	984.1	938.6	1035.3	1225.9	1345.3	1260.0	1203.1	1348.2	1351.0
67.5°	16582.1	6627.2	927.2	890.3	981.3	1160.5	1299.8	1228.7	1157.6	1331.1	1305.5
70°	14875.6	5620.3	830.5	804.9	904.5	1052.4	1194.6	1149.1	1086.5	1225.9	1180.4
72.5°	11456.7	4491.1	728.1	731.0	816.3	941.5	1089.4	1058.1	1004.0	1075.1	1046.7
75°	6977.0	2869.9	634.3	640.0	711.1	836.2	989.8	967.1	901.6	941.5	927.2
77.5°	3091.7	1422.1	534.7	546.1	603.0	736.7	861.8	824.8	756.6	765.1	759.4
80°	1200.3	674.1	435.2	449.4	486.4	588.8	713.9	679.8	620.1	608.7	603.0
82.5°	577.4	375.4	335.6	341.3	355.5	469.3	614.4	571.7	492.1	440.9	440.9
85°	290.1	233.2	236.1	216.2	236.1	318.6	415.3	347.0	287.3	256.0	261.7
87.5°	116.6	116.6	116.6	99.5	105.2	150.7	193.4	130.8	119.5	71.1	71.1
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)