

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: P476539

Luminaire Tested: **IFLD-M-SA4B-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476539
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

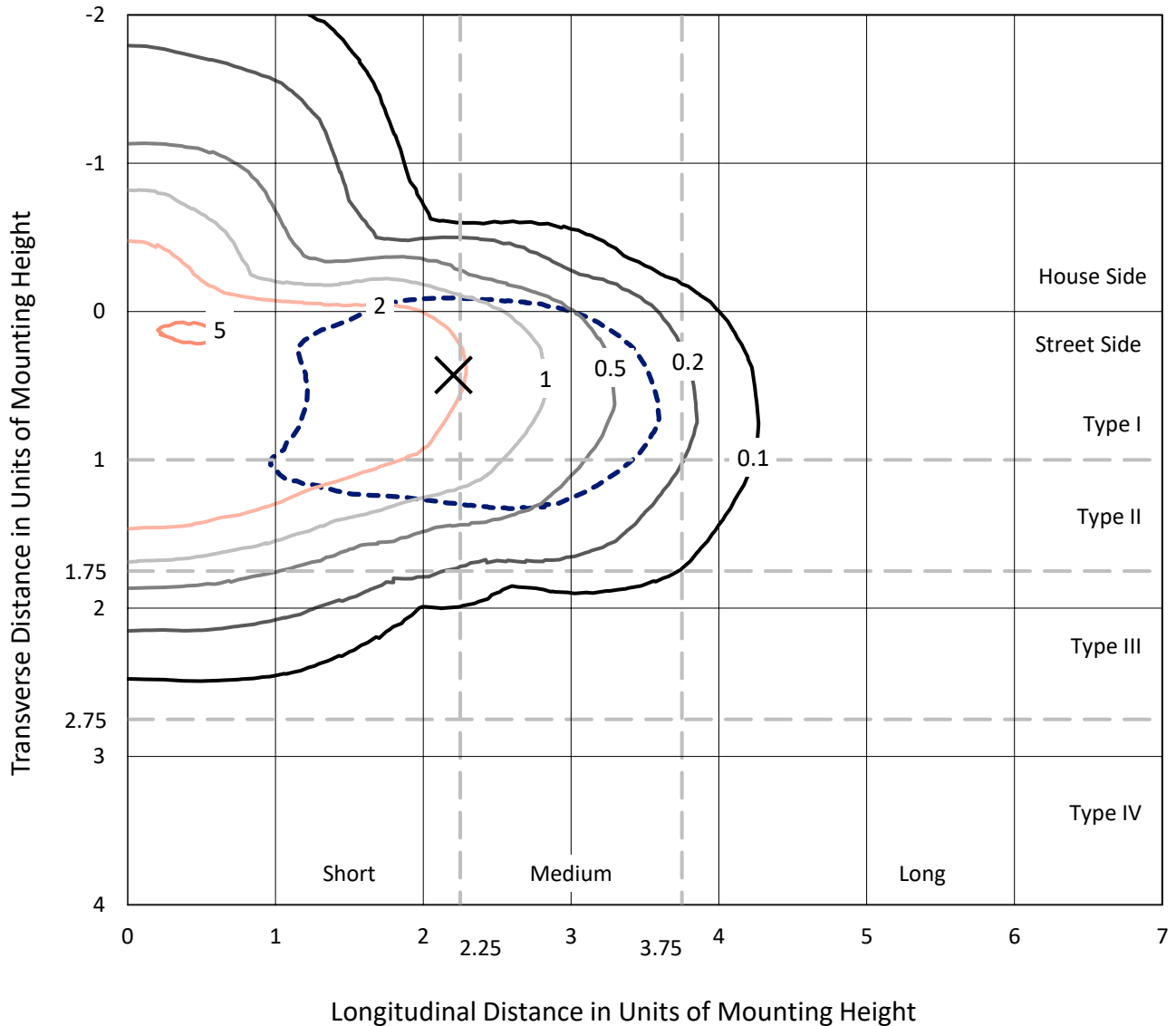
Lumens per Lamp: N/A
Luminaire Lumens: 20772.5 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

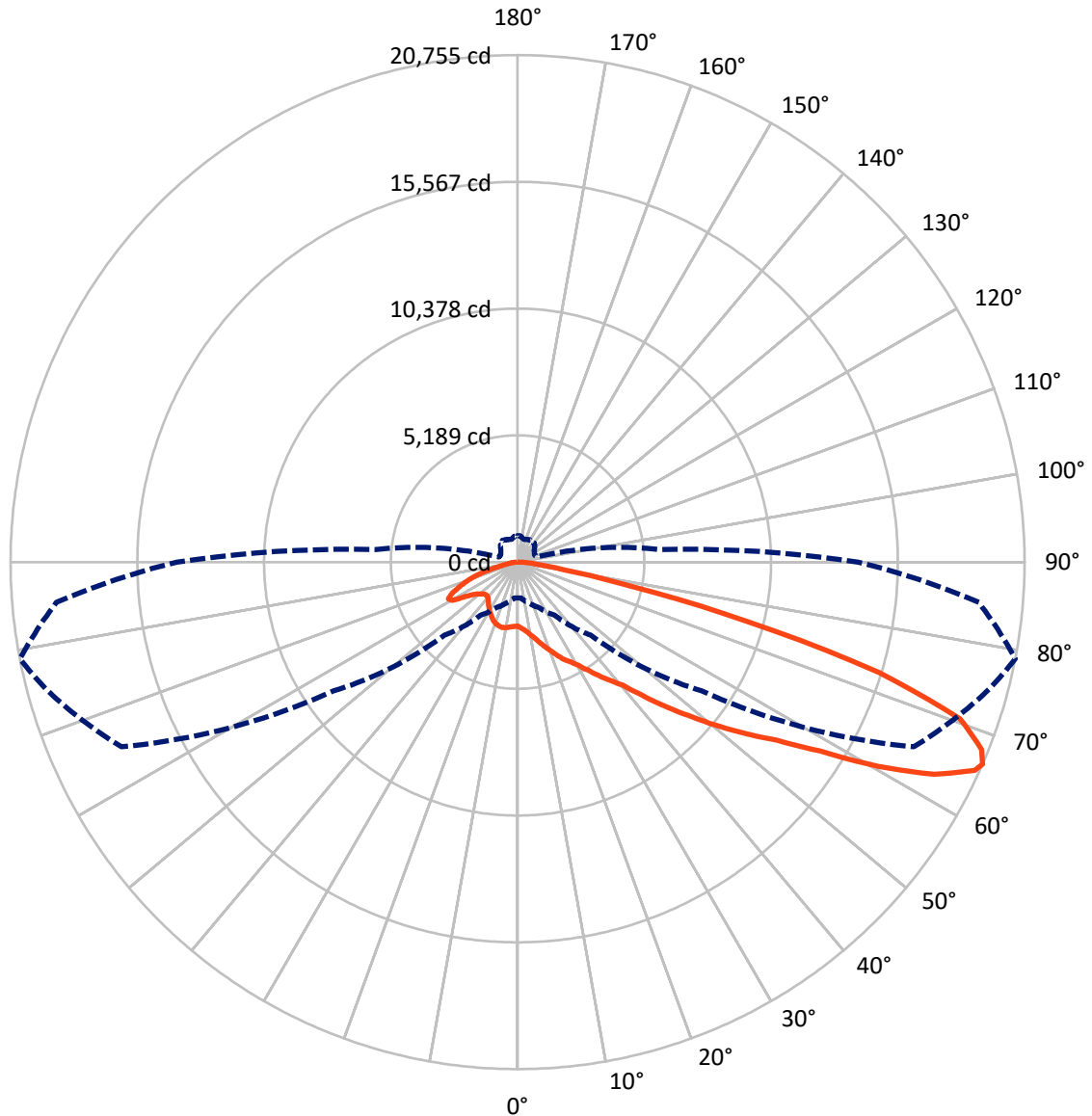
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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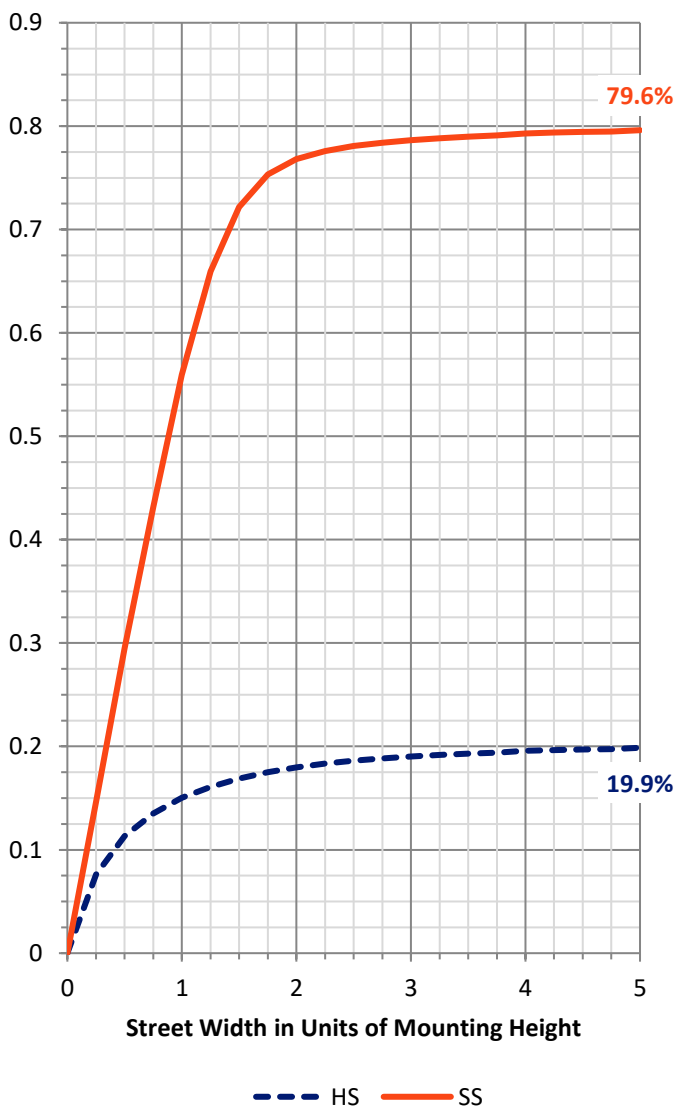
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4194.7	0.0	4194.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16577.8	0.0	16577.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	20772.5	0.0	20772.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.2
10°-20°	796.4	3.8
20°-30°	1367.1	6.6
30°-40°	2111.9	10.2
40°-50°	3382.8	16.3
50°-60°	5050.7	24.3
60°-70°	5189.6	25.0
70°-80°	2300.5	11.1
80°-90°	315.6	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°	20772.5	100.0
0°-180°	20772.5	100.0

Coefficient of Utilization



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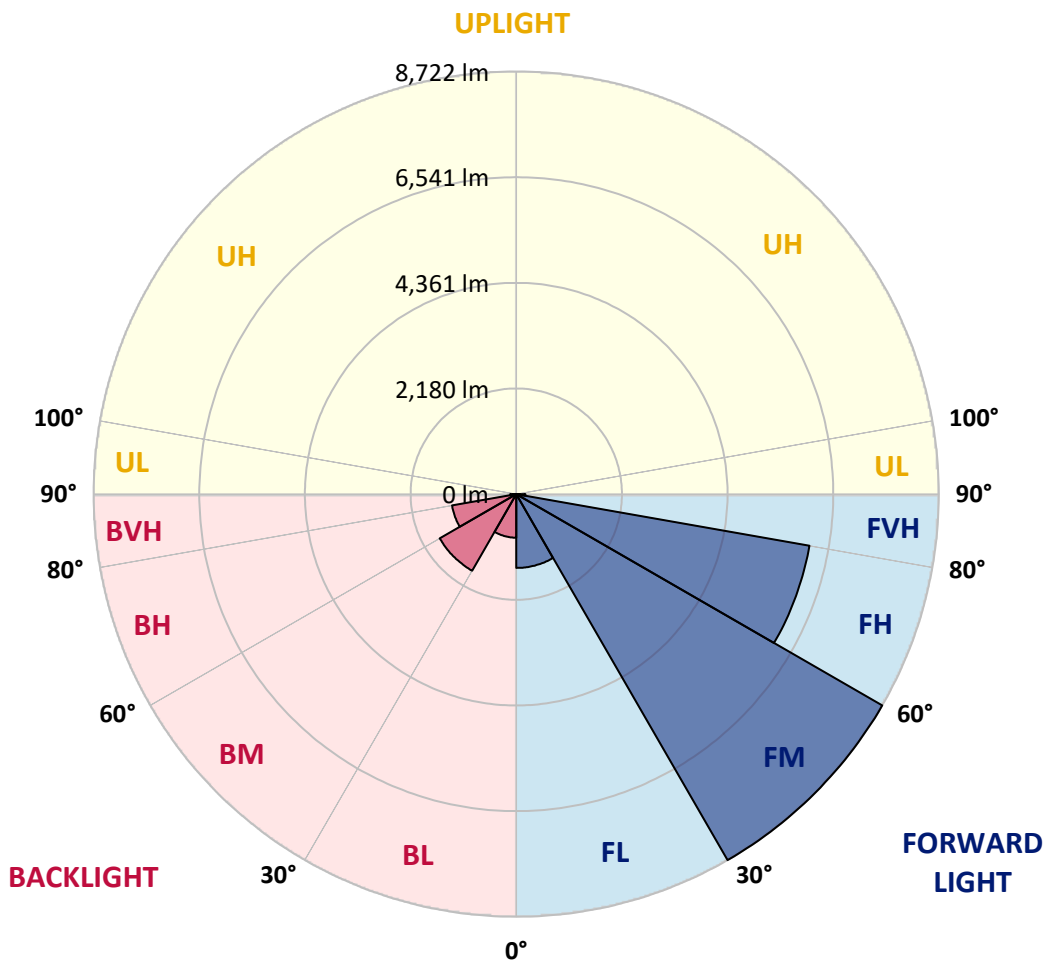
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.8	7.3			
FM (30°-60°)	8721.7	42.0			
FH (60°-80°)	6144.0	29.6			G3/7500
FVH (80°-90°)	189.3	0.9			G2/225
BL (0°-30°)	898.7	4.3	B2/1000		
BM (30°-60°)	1823.7	8.8	B2/2500		
BH (60°-80°)	1346.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	126.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0
2.5°	2789.8	2792.1	2792.1	2782.9	2785.2	2792.1	2766.9	2712.1	2712.1	2703.0	2687.0
5°	2961.1	2949.7	2933.7	2936.0	2926.9	2926.9	2899.5	2846.9	2801.2	2782.9	2734.9
7.5°	2984.0	2995.4	2993.1	3020.6	3034.3	3034.3	3048.0	3004.6	2936.0	2892.6	2844.6
10°	3029.7	3000.0	2997.7	3061.7	3082.2	3130.2	3185.1	3162.2	3105.1	3043.4	2979.4
12.5°	3057.1	3075.4	3075.4	3107.4	3155.4	3226.2	3322.1	3365.6	3276.5	3212.5	3114.2
15°	3098.2	3073.1	3146.2	3173.6	3265.0	3315.3	3452.4	3564.3	3504.9	3427.3	3271.9
17.5°	3116.5	3100.5	3141.6	3191.9	3347.3	3422.7	3589.5	3744.8	3694.6	3644.3	3484.4
20°	3210.2	3207.9	3226.2	3267.3	3379.3	3527.8	3735.7	3950.5	3968.8	3877.4	3660.3
22.5°	3438.7	3409.0	3409.0	3393.0	3441.0	3594.0	3875.1	4172.1	4254.4	4147.0	3859.1
25°	3648.9	3690.0	3664.9	3591.8	3573.5	3653.5	3975.6	4407.4	4517.1	4416.6	4128.7
27.5°	3918.5	3932.2	3975.6	3877.4	3751.7	3776.8	4085.3	4540.0	4766.2	4631.4	4281.8
30°	4306.9	4281.8	4272.6	4163.0	3998.5	3964.2	4211.0	4734.2	5092.9	4903.3	4462.3
32.5°	4569.7	4631.4	4629.1	4478.3	4279.5	4204.1	4366.3	4917.0	5442.5	5266.5	4795.9
35°	5090.6	5154.6	5104.3	4882.7	4649.6	4498.8	4590.2	5154.6	5842.3	5705.2	5079.2
37.5°	5755.5	5906.3	5798.9	5389.9	5060.9	4896.4	4901.0	5412.8	6251.3	6139.4	5383.1
40°	6214.8	6418.1	6269.6	5885.7	5536.2	5380.8	5319.1	5718.9	6740.3	6621.5	5858.3
42.5°	6783.7	6952.8	6875.1	6495.8	6086.8	5954.3	5830.9	6230.7	7487.4	7432.6	6468.4
45°	7405.1	7485.1	7460.0	7220.1	6765.4	6719.7	6447.8	6904.8	8367.1	8389.9	7231.5
47.5°	7983.2	8026.6	8074.6	7901.0	7617.6	7656.5	7158.4	7626.8	9221.6	9372.4	8081.5
50°	8131.7	8280.2	8392.2	8508.7	8570.4	8833.2	7942.1	8513.3	10204.1	10496.5	9027.4
52.5°	7980.9	7969.5	8309.9	8675.5	9292.4	9843.1	9009.1	9614.6	11072.3	11650.4	9893.3
55°	7295.5	7272.6	7821.0	8305.4	9509.5	10405.1	10533.1	11081.4	12121.0	12872.8	11065.5
57.5°	6095.9	5954.3	6552.9	7348.0	9038.8	10466.8	12063.9	13258.9	13734.1	14591.0	12854.5
60°	4096.7	4037.3	4610.8	5559.0	7338.9	9591.7	12980.1	15984.7	16007.6	16971.8	15630.6
62.5°	2522.5	2533.9	2901.7	3612.3	5138.6	7603.9	12584.9	18162.2	18166.7	19133.2	17915.4
65°	1649.7	1656.5	1953.5	2346.5	3210.2	5156.9	10407.4	18333.5	19667.9	20565.8	18961.8
66°	1469.1	1471.4	1727.3	2047.2	2659.5	4220.1	9191.9	17888.0	20006.0	20755.4	18948.1
67.5°	1238.4	1268.1	1473.7	1720.5	2074.6	3032.0	7293.2	16599.3	19832.4	20490.4	18518.6
70°	968.8	984.8	1147.0	1398.3	1556.0	1754.8	4334.3	13530.8	18153.0	19220.0	16955.8
72.5°	776.8	790.6	913.9	1135.6	1263.5	1156.1	2360.2	9817.9	14339.6	15477.5	13336.6
75°	655.7	658.0	717.4	893.4	1039.6	868.2	1256.7	6301.6	9201.0	9731.1	8170.6
77.5°	530.1	539.2	580.3	680.9	836.2	683.2	749.4	3530.1	4619.9	4658.8	3776.8
80°	431.8	436.4	461.5	495.8	637.5	504.9	507.2	1722.8	1981.0	1935.3	1535.4
82.5°	340.4	345.0	374.7	367.9	468.4	361.0	315.3	829.4	911.6	893.4	706.0
85°	191.9	191.9	294.7	294.7	297.0	228.5	191.9	390.7	482.1	450.1	331.3
87.5°	61.7	64.0	89.1	93.7	148.5	102.8	93.7	146.2	228.5	201.1	118.8
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°	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0	2623.0
2.5°	2677.8	2641.3	2625.3	2572.7	2559.0	2524.7	2508.7	2488.2	2481.3	2451.6	2479.0
5°	2698.4	2687.0	2623.0	2556.7	2506.5	2483.6	2449.3	2403.6	2399.1	2357.9	2353.4
7.5°	2785.2	2746.4	2634.4	2563.6	2463.1	2405.9	2330.5	2307.7	2278.0	2264.3	2294.0
10°	2920.0	2821.8	2655.0	2476.8	2353.4	2284.8	2230.0	2214.0	2216.3	2207.2	2193.4
12.5°	3016.0	2922.3	2620.7	2403.6	2243.7	2177.4	2172.9	2188.9	2214.0	2202.6	2218.6
15°	3153.1	2977.1	2595.6	2282.5	2154.6	2136.3	2134.0	2182.0	2179.7	2179.7	2177.4
17.5°	3281.0	3032.0	2504.2	2177.4	2060.9	2074.6	2090.6	2088.3	2111.2	2120.3	2136.3
20°	3443.2	3096.0	2376.2	2072.3	1990.1	1985.5	1983.2	1985.5	2008.4	2022.1	2010.7
22.5°	3584.9	3109.7	2268.8	1971.8	1905.6	1887.3	1857.6	1887.3	1875.8	1880.4	1894.1
25°	3708.3	3111.9	2115.8	1896.4	1821.0	1779.9	1757.0	1754.8	1734.2	1731.9	1731.9
27.5°	3811.1	3034.3	1981.0	1791.3	1720.5	1681.6	1679.4	1654.2	1601.7	1567.4	1572.0
30°	3891.1	2974.9	1887.3	1699.9	1631.4	1624.5	1604.0	1546.8	1478.3	1434.9	1434.9
32.5°	4032.7	2856.0	1759.3	1606.2	1572.0	1562.8	1514.8	1464.6	1400.6	1359.5	1352.6
35°	4137.8	2746.4	1674.8	1526.3	1510.3	1492.0	1450.9	1396.0	1377.8	1368.6	1375.5
37.5°	4256.6	2623.0	1572.0	1457.7	1473.7	1439.4	1391.5	1366.3	1430.3	1414.3	1421.2
40°	4446.3	2536.2	1471.4	1416.6	1432.6	1393.7	1332.1	1322.9	1402.9	1345.8	1332.1
42.5°	4793.6	2533.9	1409.7	1354.9	1366.3	1336.6	1281.8	1277.2	1309.2	1240.7	1220.1
45°	5225.4	2613.9	1364.0	1309.2	1300.1	1295.5	1277.2	1256.7	1229.2	1140.1	1117.3
47.5°	5741.8	2744.1	1354.9	1240.7	1252.1	1290.9	1268.1	1215.5	1144.7	1087.6	1076.2
50°	6367.8	3013.7	1332.1	1190.4	1211.0	1272.7	1254.4	1181.3	1117.3	1080.7	1073.9
52.5°	7060.1	3354.1	1302.4	1112.7	1158.4	1256.7	1265.8	1197.3	1103.6	1071.6	1067.0
55°	7875.8	3856.8	1268.1	1028.2	1096.7	1240.7	1265.8	1151.6	1085.3	1085.3	1080.7
57.5°	9486.6	4761.6	1197.3	950.5	1041.9	1211.0	1229.2	1153.8	1087.6	1087.6	1078.4
60°	11849.2	6173.6	1062.4	891.1	989.3	1169.8	1201.8	1119.6	1062.4	1076.2	1073.9
62.5°	13697.6	6603.2	948.2	834.0	936.8	1094.4	1165.3	1083.0	1032.7	1083.0	1087.6
65°	14092.9	6169.1	831.7	772.3	863.7	1021.3	1112.7	1030.5	989.3	1087.6	1092.2
66°	13951.2	5830.9	790.6	754.0	831.7	984.8	1080.7	1012.2	966.5	1083.0	1085.3
67.5°	13320.6	5323.7	744.9	715.2	788.3	932.2	1044.2	987.0	929.9	1069.3	1048.7
70°	11949.7	4514.8	667.2	646.6	726.6	845.4	959.6	923.1	872.8	984.8	948.2
72.5°	9203.3	3607.8	584.9	587.2	655.7	756.3	875.1	850.0	806.5	863.7	840.8
75°	5604.7	2305.4	509.5	514.1	571.2	671.7	795.1	776.8	724.3	756.3	744.9
77.5°	2483.6	1142.4	429.5	438.7	484.4	591.8	692.3	662.6	607.8	614.6	610.1
80°	964.2	541.5	349.6	361.0	390.7	473.0	573.5	546.1	498.1	489.0	484.4
82.5°	463.8	301.6	269.6	274.2	285.6	377.0	493.5	459.3	395.3	354.1	354.1
85°	233.1	187.4	189.6	173.6	189.6	255.9	333.6	278.7	230.8	205.6	210.2
87.5°	93.7	93.7	93.7	80.0	84.5	121.1	155.4	105.1	96.0	57.1	57.1
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)