

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: P478698

Luminaire Tested: **IFLD-S-SA2B-830-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478698  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

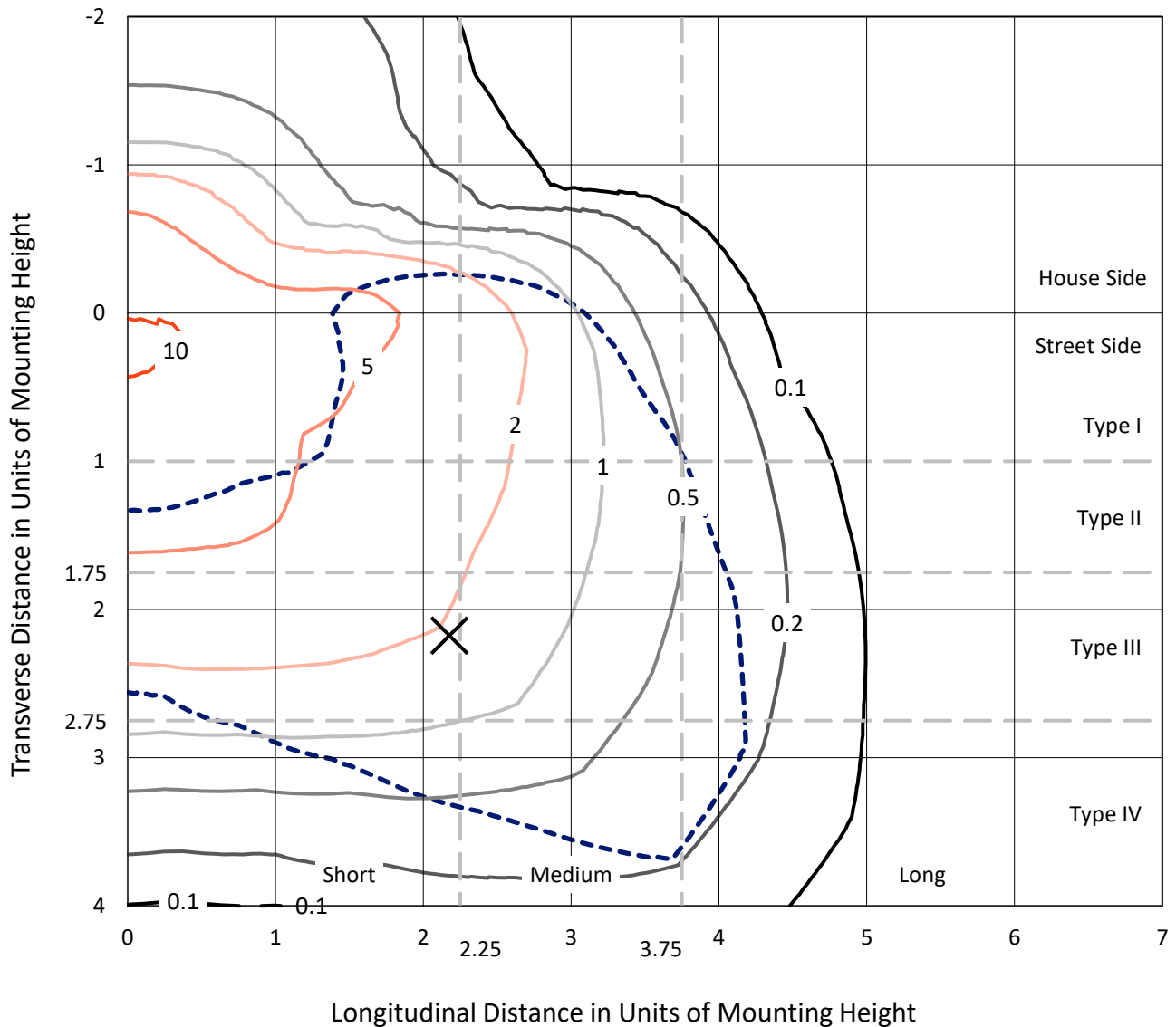
Lumens per Lamp: N/A  
Luminaire Lumens: 9170.4 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

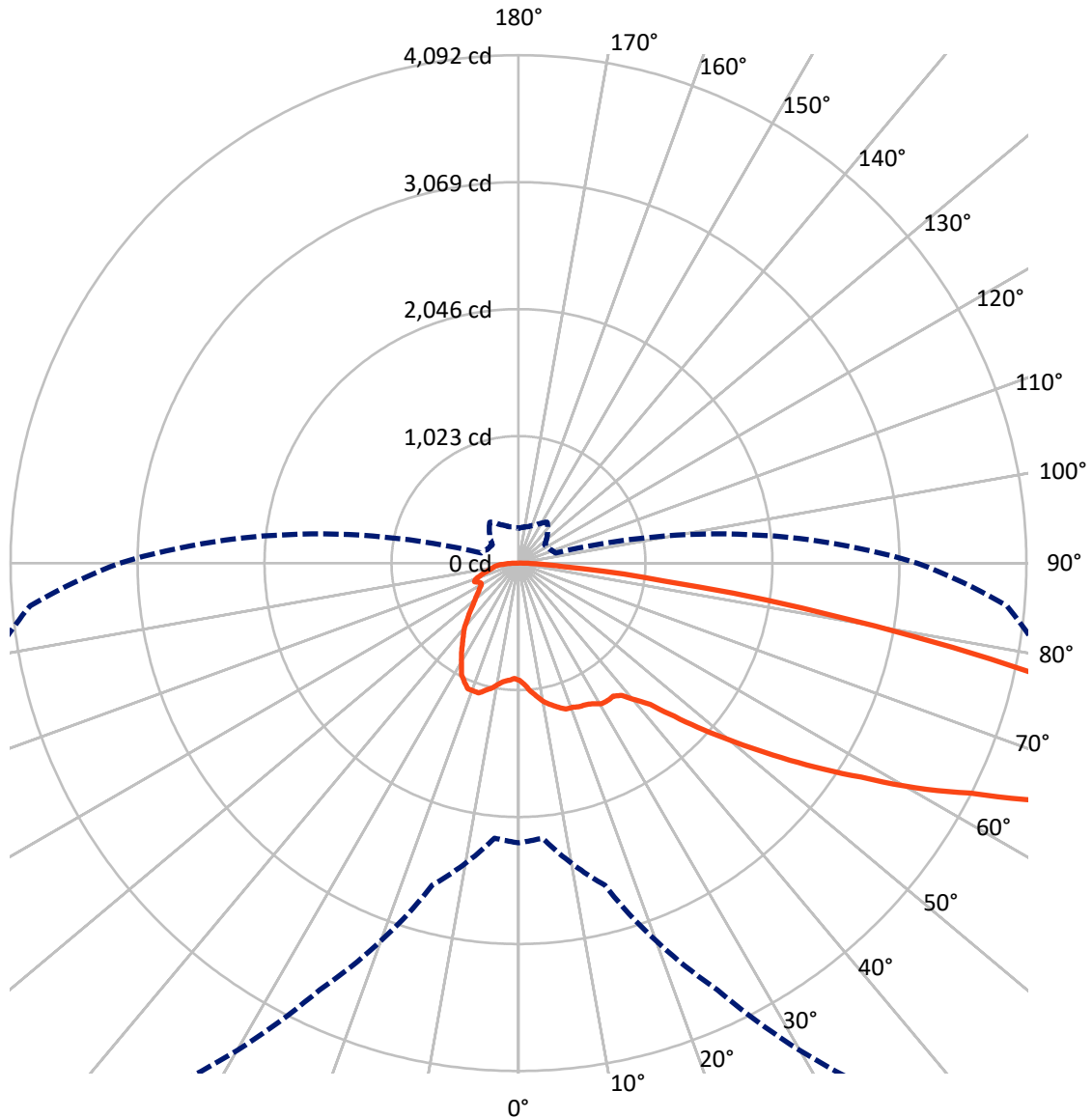
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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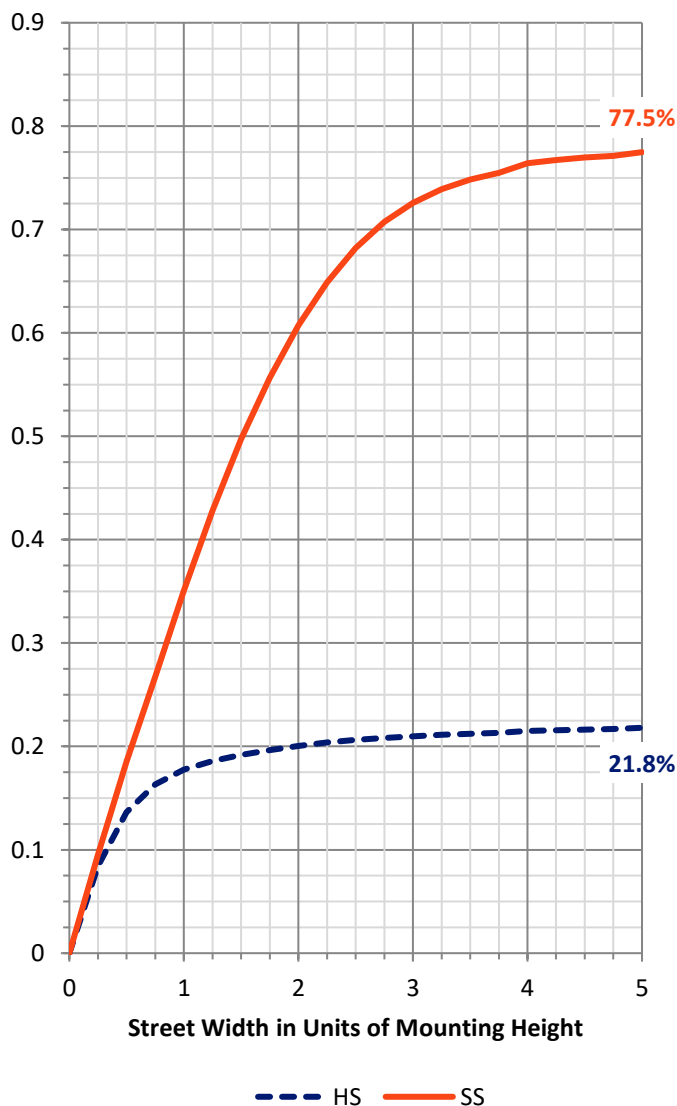
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2041.4	0.0	2041.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	7129.0	0.0	7129.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	9170.4	0.0	9170.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.6	1.1
10°-20°	321.5	3.5
20°-30°	542.9	5.9
30°-40°	751.4	8.2
40°-50°	1074.7	11.7
50°-60°	1733.4	18.9
60°-70°	2556.6	27.9
70°-80°	1856.5	20.2
80°-90°	236.7	2.6
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°	9170.4	100.0
0°-180°	9170.4	100.0

**Coefficient of Utilization**



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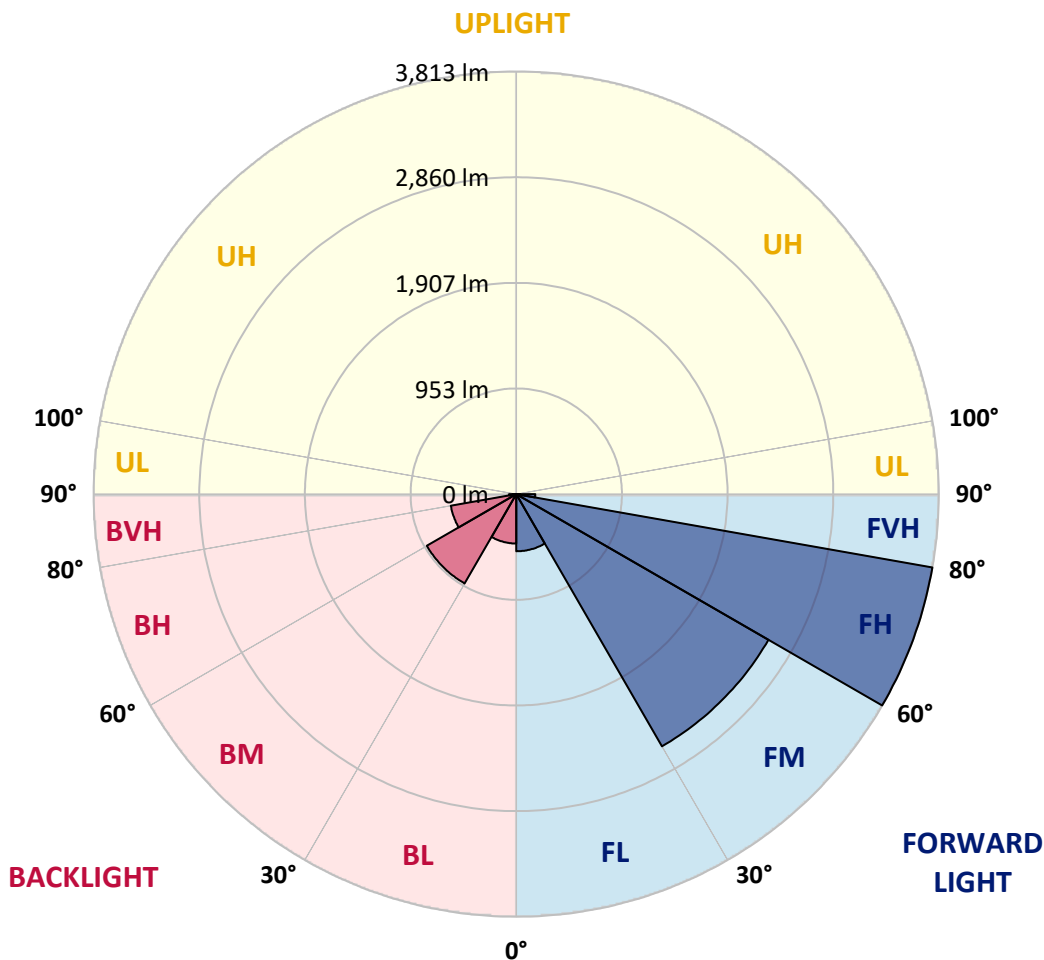
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.4	5.6			
FM (30°-60°)	2627.9	28.7			
FH (60°-80°)	3813.4	41.6			G2/5000
FVH (80°-90°)	172.3	1.9			G2/225
BL (0°-30°)	445.7	4.9	B1/500		
BM (30°-60°)	931.6	10.2	B1/1000		
BH (60°-80°)	599.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	64.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	994.8	1000.7	994.8	993.8	983.9	977.0	982.9	974.0	964.2	960.2	951.3
5°	1085.8	1086.8	1075.9	1076.9	1056.1	1034.4	1038.3	1011.6	982.9	972.1	954.3
7.5°	1178.7	1167.9	1152.0	1147.1	1114.5	1090.7	1087.8	1064.0	1019.5	994.8	970.1
10°	1239.1	1243.0	1217.3	1195.6	1167.9	1139.2	1138.2	1093.7	1068.0	1031.4	999.8
12.5°	1292.5	1293.5	1271.7	1237.1	1202.5	1166.9	1171.8	1152.0	1108.5	1073.9	1042.3
15°	1334.0	1328.1	1304.3	1272.7	1236.1	1208.4	1205.4	1188.6	1152.0	1123.4	1071.0
17.5°	1345.9	1342.9	1319.2	1285.5	1249.9	1229.2	1237.1	1209.4	1194.6	1168.9	1118.4
20°	1323.1	1316.2	1312.2	1274.7	1249.0	1247.0	1240.1	1246.0	1221.3	1197.5	1160.9
22.5°	1281.6	1278.6	1276.6	1247.0	1235.1	1244.0	1255.9	1264.8	1260.8	1238.1	1196.5
25°	1239.1	1252.9	1240.1	1226.2	1243.0	1265.8	1262.8	1291.5	1291.5	1284.6	1249.9
27.5°	1268.7	1259.8	1249.9	1243.0	1249.0	1284.6	1282.6	1317.2	1330.0	1317.2	1277.6
30°	1342.9	1334.0	1305.3	1274.7	1266.8	1305.3	1315.2	1345.9	1351.8	1320.2	1286.5
32.5°	1482.3	1477.4	1431.9	1341.9	1293.5	1315.2	1320.2	1354.8	1349.8	1330.0	1316.2
35°	1689.0	1672.2	1608.9	1456.6	1349.8	1328.1	1315.2	1342.9	1361.7	1351.8	1338.9
37.5°	1915.5	1896.7	1818.6	1625.7	1451.7	1362.7	1352.8	1375.5	1397.3	1392.3	1365.6
40°	2132.0	2132.0	2061.8	1837.3	1603.0	1446.7	1448.7	1423.0	1442.8	1433.9	1438.8
42.5°	2345.6	2337.7	2309.0	2085.5	1765.2	1587.2	1555.5	1491.2	1526.8	1523.9	1530.8
45°	2562.2	2556.3	2548.3	2316.9	1997.5	1777.0	1760.2	1644.5	1677.1	1663.3	1693.0
47.5°	2735.2	2742.2	2742.2	2575.0	2245.7	2030.2	2005.5	1822.5	1884.8	1891.7	1898.7
50°	2882.6	2885.6	2882.6	2821.3	2522.6	2319.9	2269.5	2083.6	2145.9	2200.3	2263.5
52.5°	3086.3	3090.3	3076.4	3052.7	2898.4	2624.5	2568.1	2361.4	2489.0	2546.4	2660.1
55°	3337.5	3307.8	3282.1	3299.9	3259.4	2959.7	2901.4	2648.2	2840.1	2916.2	3143.7
57.5°	3383.9	3409.7	3474.9	3616.3	3674.7	3286.1	3252.4	3000.3	3236.6	3302.9	3682.6
60°	3548.1	3505.6	3665.8	3972.3	4037.6	3711.3	3676.7	3385.9	3631.2	3700.4	4180.0
62.5°	3655.9	3653.9	3891.2	4255.2	4403.5	4152.3	4082.1	3887.3	4057.4	4124.6	4721.9
65°	3624.2	3652.9	4074.2	4421.3	4709.0	4653.7	4613.1	4318.4	4542.9	4537.0	5074.9
67.5°	3335.5	3416.6	3958.5	4540.9	5163.9	5264.8	5251.9	4924.6	4937.5	4811.9	5232.2
70°	2935.0	2907.3	3469.0	4416.3	5391.4	5989.7	5986.7	5375.6	5292.5	4872.2	4781.2
72°	2254.6	2224.0	2685.8	3792.4	5271.7	6279.4	6368.4	5688.0	5288.5	4622.0	3949.6
72.5°	2047.0	2020.3	2480.1	3569.9	5139.2	6354.5	6313.0	5699.9	5247.0	4504.4	3689.5
75°	942.4	911.7	1239.1	2185.4	4008.9	5630.7	5772.1	5334.0	4582.5	3585.7	2210.1
77.5°	280.8	271.9	398.5	882.1	2329.8	4148.4	4202.7	4024.7	3199.0	1963.9	819.8
80°	156.2	157.2	205.7	330.3	1024.5	2398.0	2593.8	2486.0	1569.4	648.7	272.9
82.5°	87.0	92.0	128.6	195.8	470.7	1100.6	1184.7	1142.2	567.6	304.6	149.3
85°	45.5	47.5	67.2	104.8	267.0	348.1	358.0	383.7	294.7	207.7	80.1
87.5°	17.8	17.8	24.7	43.5	98.9	107.8	96.9	117.7	169.1	134.5	39.6
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°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	959.2	951.3	950.3	937.5	941.4	930.5	931.5	929.5	930.5	928.6	923.6
5°	954.3	948.3	931.5	942.4	932.5	946.4	957.2	953.3	956.2	955.3	956.2
7.5°	961.2	953.3	951.3	945.4	954.3	960.2	969.1	993.8	991.8	994.8	1000.7
10°	982.0	973.1	967.1	976.0	971.1	989.9	999.8	1012.6	1035.4	1036.3	1024.5
12.5°	1022.5	1016.6	1004.7	1006.7	1023.5	1029.4	1035.4	1043.3	1058.1	1055.1	1066.0
15°	1069.0	1056.1	1049.2	1047.2	1051.2	1058.1	1057.1	1065.0	1072.9	1079.9	1076.9
17.5°	1102.6	1085.8	1087.8	1097.7	1096.7	1094.7	1081.8	1077.9	1081.8	1085.8	1083.8
20°	1137.2	1139.2	1124.4	1115.5	1111.5	1091.7	1081.8	1070.0	1058.1	1064.0	1072.9
22.5°	1180.7	1171.8	1150.1	1123.4	1103.6	1091.7	1061.1	1040.3	1040.3	1046.2	1043.3
25°	1230.2	1211.4	1173.8	1125.3	1100.6	1050.2	1028.4	1025.5	1017.6	1026.5	1030.4
27.5°	1268.7	1251.9	1200.5	1118.4	1050.2	1009.6	996.8	992.8	1005.7	1006.7	1022.5
30°	1284.6	1279.6	1204.5	1100.6	998.8	933.5	925.6	943.4	957.2	978.0	979.0
32.5°	1305.3	1307.3	1210.4	1059.1	931.5	866.3	854.4	876.1	915.7	932.5	945.4
35°	1339.9	1349.8	1205.4	1007.7	860.3	798.0	796.0	802.0	840.5	870.2	887.0
37.5°	1400.3	1398.3	1204.5	946.4	804.0	738.7	722.9	724.8	750.6	775.3	772.3
40°	1481.3	1473.4	1201.5	866.3	730.8	688.3	661.6	651.7	649.7	642.8	644.8
42.5°	1592.1	1576.3	1200.5	785.2	664.5	619.0	600.3	574.5	555.8	520.2	522.1
45°	1746.4	1718.7	1174.8	709.0	599.3	561.7	533.0	514.2	473.7	429.2	429.2
47.5°	1984.7	1894.7	1175.8	625.0	536.0	505.3	485.5	452.9	409.4	373.8	369.8
50°	2335.7	2130.0	1142.2	558.7	484.6	463.8	443.0	405.4	363.9	339.2	342.2
52.5°	2788.6	2481.1	1141.2	499.4	444.0	429.2	406.4	372.8	342.2	326.3	320.4
55°	3328.6	2945.9	1176.8	450.9	402.5	394.6	384.7	357.0	327.3	313.5	312.5
57.5°	3881.4	3399.8	1234.1	416.3	366.9	372.8	365.9	344.1	320.4	304.6	302.6
60°	4372.8	3759.7	1118.4	374.8	335.2	348.1	358.0	339.2	326.3	325.3	318.4
62.5°	4743.7	3914.0	850.4	343.1	318.4	342.2	368.9	380.7	374.8	382.7	383.7
65°	4879.1	3821.0	585.4	326.3	305.6	356.0	415.3	411.4	376.8	361.9	369.8
67.5°	4689.3	3444.3	434.1	306.6	296.7	384.7	442.0	392.6	340.2	338.2	332.3
70°	4032.7	2919.2	354.0	285.8	281.8	368.9	430.2	363.9	320.4	307.5	301.6
72°	3212.9	2273.4	310.5	271.0	258.1	329.3	402.5	341.2	303.6	287.8	280.8
72.5°	2933.0	2107.3	304.6	264.0	253.2	320.4	388.6	334.2	299.6	285.8	274.9
75°	1608.9	1078.9	268.0	242.3	213.6	276.9	360.0	313.5	282.8	263.0	261.1
77.5°	598.3	418.3	231.4	214.6	184.9	239.3	327.3	297.7	257.1	232.4	227.4
80°	229.4	220.5	188.9	181.0	155.3	209.6	301.6	267.0	218.5	193.8	185.9
82.5°	139.4	128.6	143.4	141.4	118.7	190.9	283.8	250.2	193.8	157.2	152.3
85°	76.1	76.1	99.9	95.9	83.1	152.3	214.6	166.1	122.6	100.9	102.8
87.5°	33.6	39.6	53.4	50.4	45.5	86.0	104.8	88.0	61.3	41.5	44.5
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)