

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: P478463

Luminaire Tested: **IFLD-S-SA2A-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478463
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

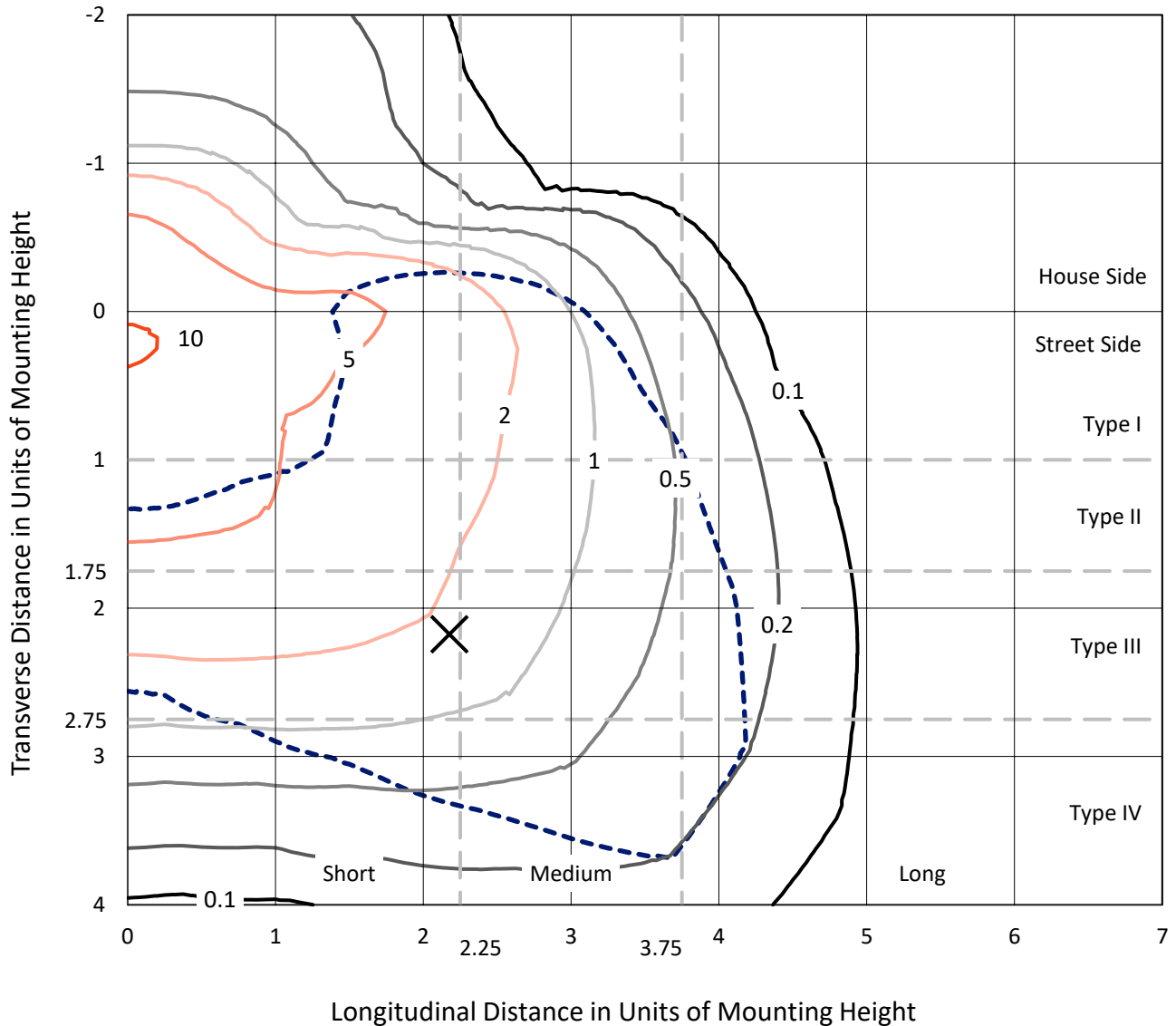
Lumens per Lamp: N/A
Luminaire Lumens: 8497.5 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
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

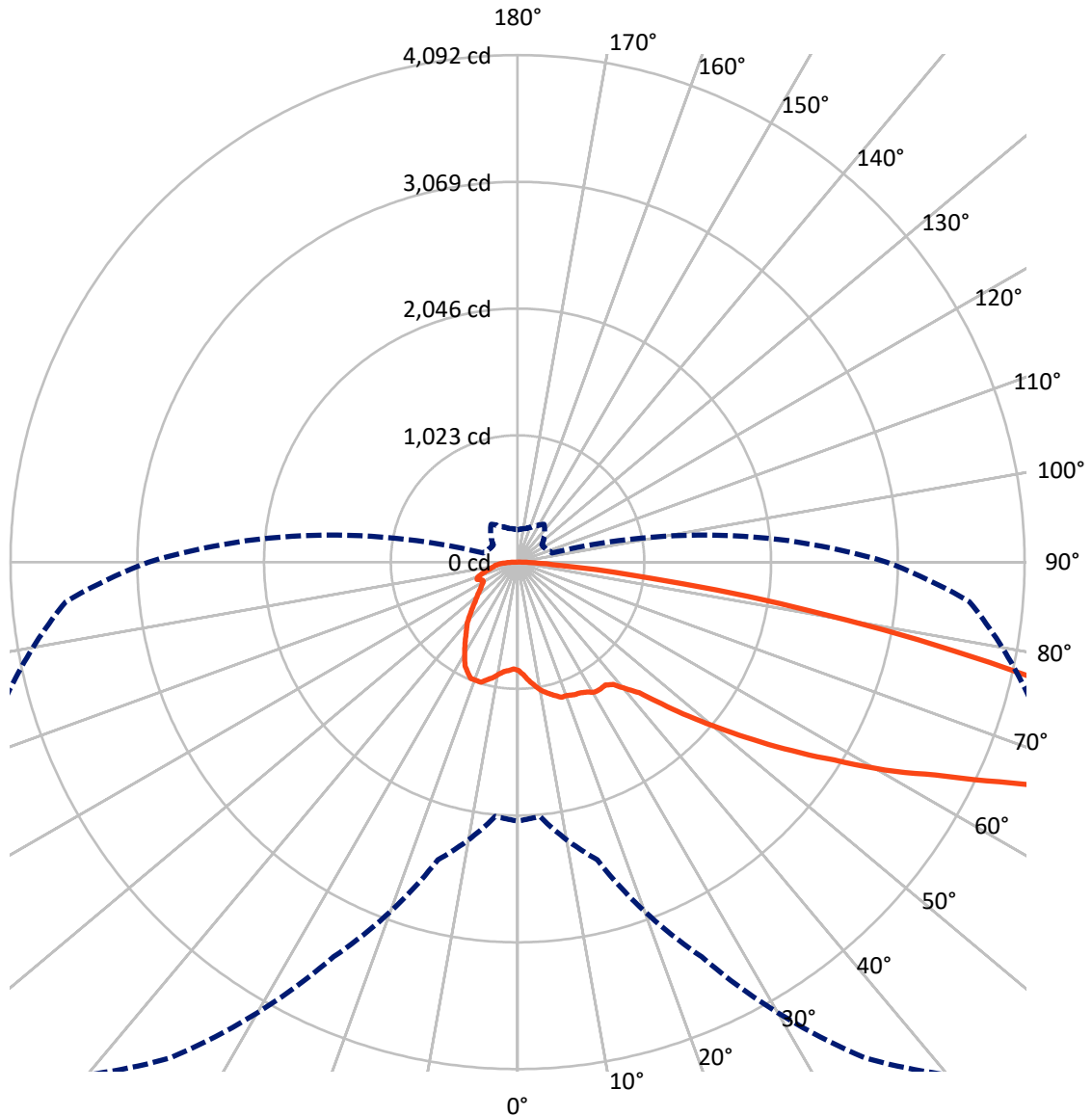
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 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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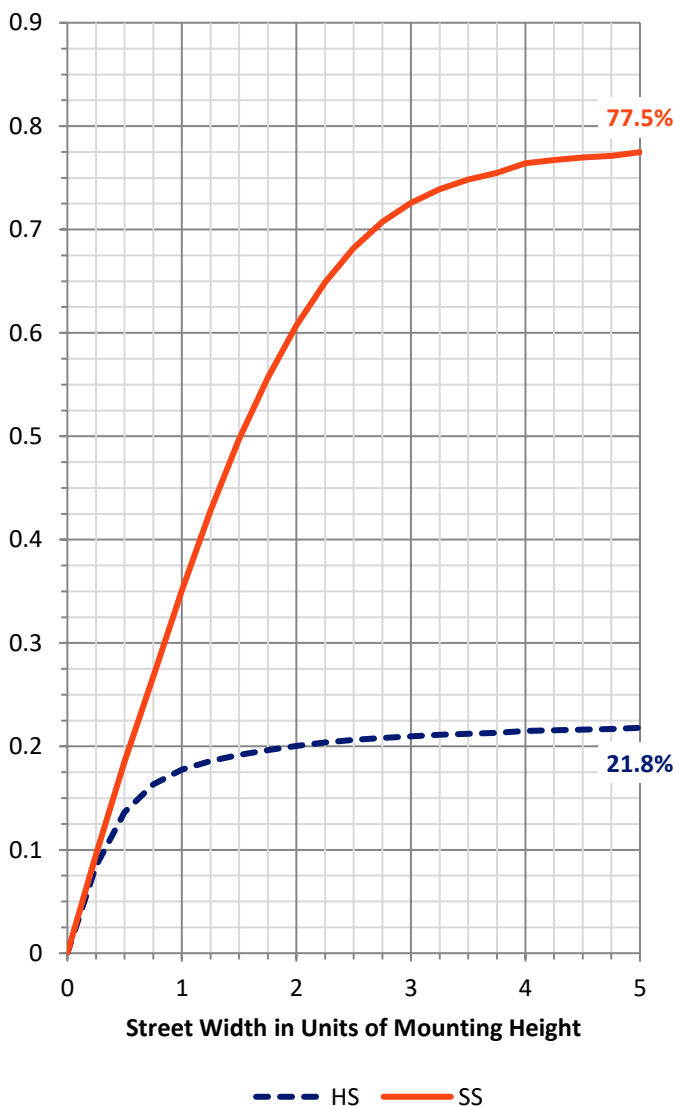
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.6	0.0	1891.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6605.9	0.0	6605.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	8497.5	0.0	8497.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.1
10°-20°	297.9	3.5
20°-30°	503.1	5.9
30°-40°	696.2	8.2
40°-50°	995.9	11.7
50°-60°	1606.2	18.9
60°-70°	2369.0	27.9
70°-80°	1720.3	20.2
80°-90°	219.3	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°	8497.5	100.0
0°-180°	8497.5	100.0

Coefficient of Utilization



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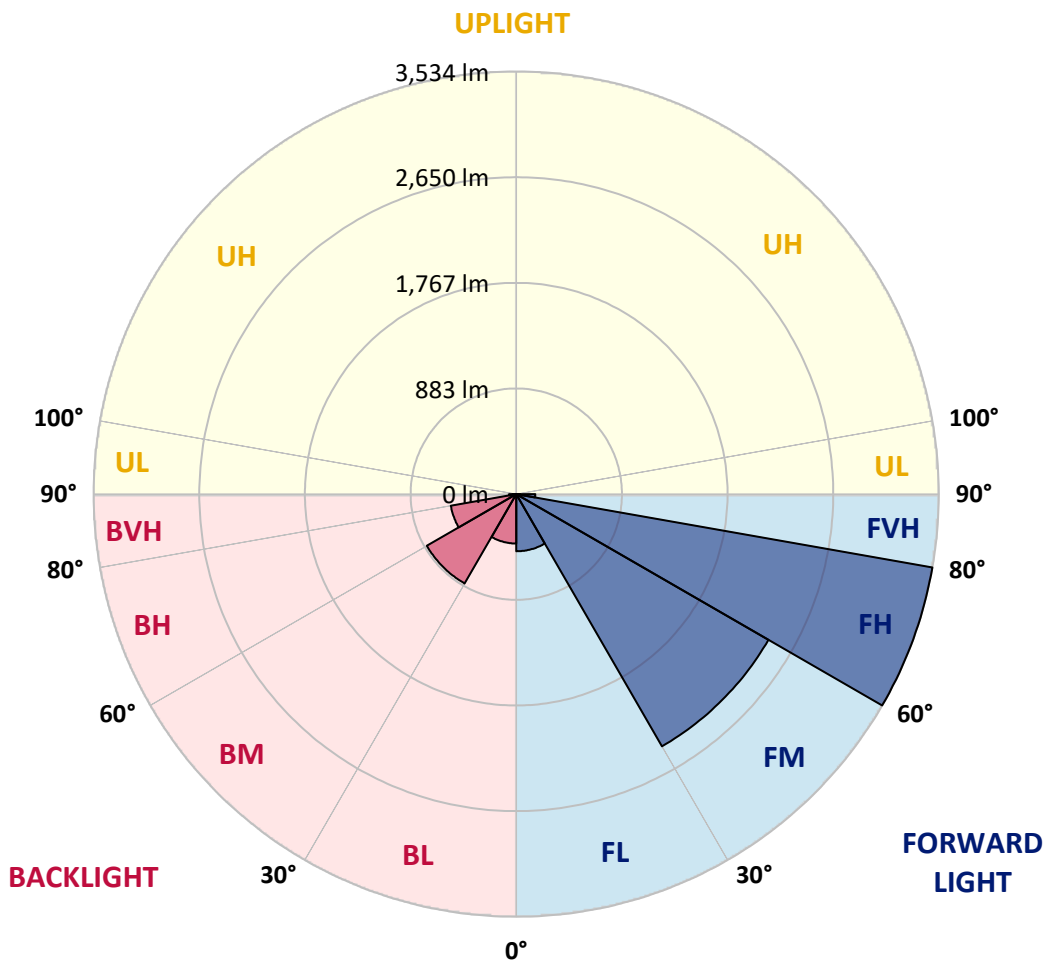
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.6	5.6			
FM (30°-60°)	2435.1	28.7			
FH (60°-80°)	3533.6	41.6			G2/5000
FVH (80°-90°)	159.6	1.9			G2/225
BL (0°-30°)	413.0	4.9	B1/500		
BM (30°-60°)	863.3	10.2	B1/1000		
BH (60°-80°)	555.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	59.7	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°	875.1	875.1	875.1	875.1	875.1	875.1	875.1	875.1	875.1	875.1	875.1
2.5°	921.8	927.3	921.8	920.9	911.7	905.3	910.8	902.6	893.4	889.7	881.5
5°	1006.1	1007.0	997.0	997.9	978.6	958.5	962.1	937.4	910.8	900.7	884.3
7.5°	1092.3	1082.2	1067.5	1062.9	1032.7	1010.7	1008.0	986.0	944.7	921.8	898.9
10°	1148.2	1151.8	1128.0	1107.8	1082.2	1055.6	1054.7	1013.5	989.6	955.7	926.4
12.5°	1197.6	1198.5	1178.4	1146.3	1114.2	1081.3	1085.8	1067.5	1027.2	995.1	965.8
15°	1236.1	1230.6	1208.6	1179.3	1145.4	1119.7	1117.0	1101.4	1067.5	1040.9	992.4
17.5°	1247.1	1244.4	1222.4	1191.2	1158.2	1139.0	1146.3	1120.7	1106.9	1083.1	1036.4
20°	1226.0	1219.6	1216.0	1181.1	1157.3	1155.5	1149.1	1154.6	1131.7	1109.7	1075.8
22.5°	1187.6	1184.8	1183.0	1155.5	1144.5	1152.7	1163.7	1172.0	1168.3	1147.2	1108.7
25°	1148.2	1161.0	1149.1	1136.2	1151.8	1172.9	1170.1	1196.7	1196.7	1190.3	1158.2
27.5°	1175.6	1167.4	1158.2	1151.8	1157.3	1190.3	1188.5	1220.5	1232.5	1220.5	1183.9
30°	1244.4	1236.1	1209.5	1181.1	1173.8	1209.5	1218.7	1247.1	1252.6	1223.3	1192.1
32.5°	1373.6	1369.0	1326.8	1243.4	1198.5	1218.7	1223.3	1255.4	1250.8	1232.5	1219.6
35°	1565.1	1549.5	1490.9	1349.7	1250.8	1230.6	1218.7	1244.4	1261.8	1252.6	1240.7
37.5°	1774.9	1757.5	1685.1	1506.4	1345.2	1262.7	1253.5	1274.6	1294.8	1290.2	1265.4
40°	1975.6	1975.6	1910.5	1702.5	1485.4	1340.6	1342.4	1318.6	1336.9	1328.7	1333.2
42.5°	2173.5	2166.2	2139.6	1932.5	1635.6	1470.7	1441.4	1381.8	1414.8	1412.1	1418.5
45°	2374.2	2368.7	2361.4	2146.9	1851.0	1646.6	1631.1	1523.8	1554.1	1541.3	1568.7
47.5°	2534.5	2541.0	2541.0	2386.1	2081.0	1881.2	1858.3	1688.8	1746.5	1752.9	1759.3
50°	2671.1	2673.8	2671.1	2614.3	2337.5	2149.7	2103.0	1930.7	1988.4	2038.8	2097.5
52.5°	2859.8	2863.5	2850.7	2828.7	2685.7	2431.9	2379.7	2188.2	2306.4	2359.5	2464.9
55°	3092.6	3065.1	3041.3	3057.8	3020.2	2742.5	2688.5	2453.9	2631.7	2702.2	2913.0
57.5°	3135.7	3159.5	3220.0	3351.0	3405.1	3044.9	3013.8	2780.1	2999.1	3060.5	3412.4
60°	3287.8	3248.4	3396.8	3680.9	3741.3	3439.0	3406.9	3137.5	3364.7	3428.9	3873.3
62.5°	3387.6	3385.8	3605.7	3942.9	4080.4	3847.6	3782.6	3602.1	3759.7	3822.0	4375.4
65°	3358.3	3384.9	3775.2	4096.9	4363.5	4312.2	4274.6	4001.6	4209.6	4204.1	4702.6
67.5°	3090.8	3165.9	3668.0	4207.7	4785.0	4878.5	4866.6	4563.3	4575.2	4458.8	4848.3
70°	2719.6	2694.0	3214.5	4092.3	4995.8	5550.2	5547.4	4981.1	4904.2	4514.7	4430.4
72°	2089.2	2060.8	2488.7	3514.1	4884.9	5818.6	5901.1	5270.7	4900.5	4282.9	3659.8
72.5°	1896.8	1872.0	2298.1	3307.9	4762.1	5888.3	5849.8	5281.7	4862.0	4173.8	3418.8
75°	873.3	844.8	1148.2	2025.1	3714.8	5217.5	5348.6	4942.6	4246.2	3322.6	2048.0
77.5°	260.2	252.0	369.3	817.4	2158.9	3844.0	3894.4	3729.4	2964.3	1819.8	759.6
80°	144.8	145.7	190.6	306.1	949.3	2222.1	2403.5	2303.6	1454.2	601.1	252.9
82.5°	80.6	85.2	119.1	181.4	436.2	1019.9	1097.8	1058.4	526.0	282.2	138.4
85°	42.2	44.0	62.3	97.1	247.4	322.5	331.7	355.5	273.1	192.4	74.2
87.5°	16.5	16.5	22.9	40.3	91.6	99.9	89.8	109.0	156.7	124.6	36.7
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°	875.1	875.1	875.1	875.1	875.1	875.1	875.1	875.1	875.1	875.1	875.1
2.5°	888.8	881.5	880.6	868.7	872.3	862.3	863.2	861.3	862.3	860.4	855.8
5°	884.3	878.8	863.2	873.3	864.1	876.9	887.0	883.3	886.1	885.2	886.1
7.5°	890.7	883.3	881.5	876.0	884.3	889.7	898.0	920.9	919.1	921.8	927.3
10°	909.9	901.7	896.2	904.4	899.8	917.2	926.4	938.3	959.4	960.3	949.3
12.5°	947.5	942.0	931.0	932.8	948.4	953.9	959.4	966.7	980.5	977.7	987.8
15°	990.5	978.6	972.2	970.4	974.0	980.5	979.5	986.9	994.2	1000.6	997.9
17.5°	1021.7	1006.1	1008.0	1017.1	1016.2	1014.4	1002.5	998.8	1002.5	1006.1	1004.3
20°	1053.8	1055.6	1041.9	1033.6	1029.9	1011.6	1002.5	991.5	980.5	986.0	994.2
22.5°	1094.1	1085.8	1065.7	1040.9	1022.6	1011.6	983.2	964.0	964.0	969.5	966.7
25°	1139.9	1122.5	1087.7	1042.8	1019.9	973.1	953.0	950.2	942.9	951.1	954.8
27.5°	1175.6	1160.1	1112.4	1036.4	973.1	935.6	923.7	920.0	931.9	932.8	947.5
30°	1190.3	1185.7	1116.1	1019.9	925.5	865.0	857.7	874.2	887.0	906.2	907.2
32.5°	1209.5	1211.4	1121.6	981.4	863.2	802.7	791.7	811.9	848.5	864.1	876.0
35°	1241.6	1250.8	1117.0	933.7	797.2	739.5	737.6	743.1	778.9	806.4	821.9
37.5°	1297.5	1295.7	1116.1	876.9	745.0	684.5	669.8	671.7	695.5	718.4	715.6
40°	1372.6	1365.3	1113.3	802.7	677.2	637.8	613.0	603.9	602.0	595.6	597.4
42.5°	1475.3	1460.6	1112.4	727.6	615.8	573.6	556.2	532.4	515.0	482.0	483.8
45°	1618.2	1592.6	1088.6	657.0	555.3	520.5	493.9	476.5	438.9	397.7	397.7
47.5°	1839.1	1755.7	1089.5	579.1	496.6	468.2	449.9	419.7	379.4	346.4	342.7
50°	2164.4	1973.8	1058.4	517.7	449.0	429.8	410.5	375.7	337.2	314.3	317.0
52.5°	2584.0	2299.1	1057.4	462.7	411.4	397.7	376.6	345.5	317.0	302.4	296.9
55°	3084.3	2729.7	1090.4	417.8	372.9	365.6	356.4	330.8	303.3	290.5	289.6
57.5°	3596.6	3150.3	1143.6	385.8	340.0	345.5	339.0	318.9	296.9	282.2	280.4
60°	4052.0	3483.9	1036.4	347.3	310.6	322.5	331.7	314.3	302.4	301.5	295.1
62.5°	4395.6	3626.8	788.0	318.0	295.1	317.0	341.8	352.8	347.3	354.6	355.5
65°	4521.1	3540.7	542.5	302.4	283.1	329.9	384.9	381.2	349.1	335.4	342.7
67.5°	4345.2	3191.5	402.3	284.1	274.9	356.4	409.6	363.8	315.2	313.4	307.9
70°	3736.8	2705.0	328.0	264.8	261.2	341.8	398.6	337.2	296.9	285.0	279.5
72°	2977.1	2106.6	287.7	251.1	239.2	305.1	372.9	316.1	281.3	266.6	260.2
72.5°	2717.8	1952.7	282.2	244.7	234.6	296.9	360.1	309.7	277.6	264.8	254.7
75°	1490.9	999.7	248.3	224.5	197.9	256.6	333.5	290.5	262.1	243.7	241.9
77.5°	554.4	387.6	214.4	198.8	171.4	221.7	303.3	275.8	238.2	215.3	210.8
80°	212.6	204.3	175.0	167.7	143.9	194.3	279.5	247.4	202.5	179.6	172.3
82.5°	129.2	119.1	132.9	131.0	110.0	176.9	263.0	231.8	179.6	145.7	141.1
85°	70.6	70.6	92.5	88.9	77.0	141.1	198.8	153.9	113.6	93.5	95.3
87.5°	31.2	36.7	49.5	46.7	42.2	79.7	97.1	81.6	56.8	38.5	41.2
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)