

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: P478386

Luminaire Tested: **IFLD-S-SA2B-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478386
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

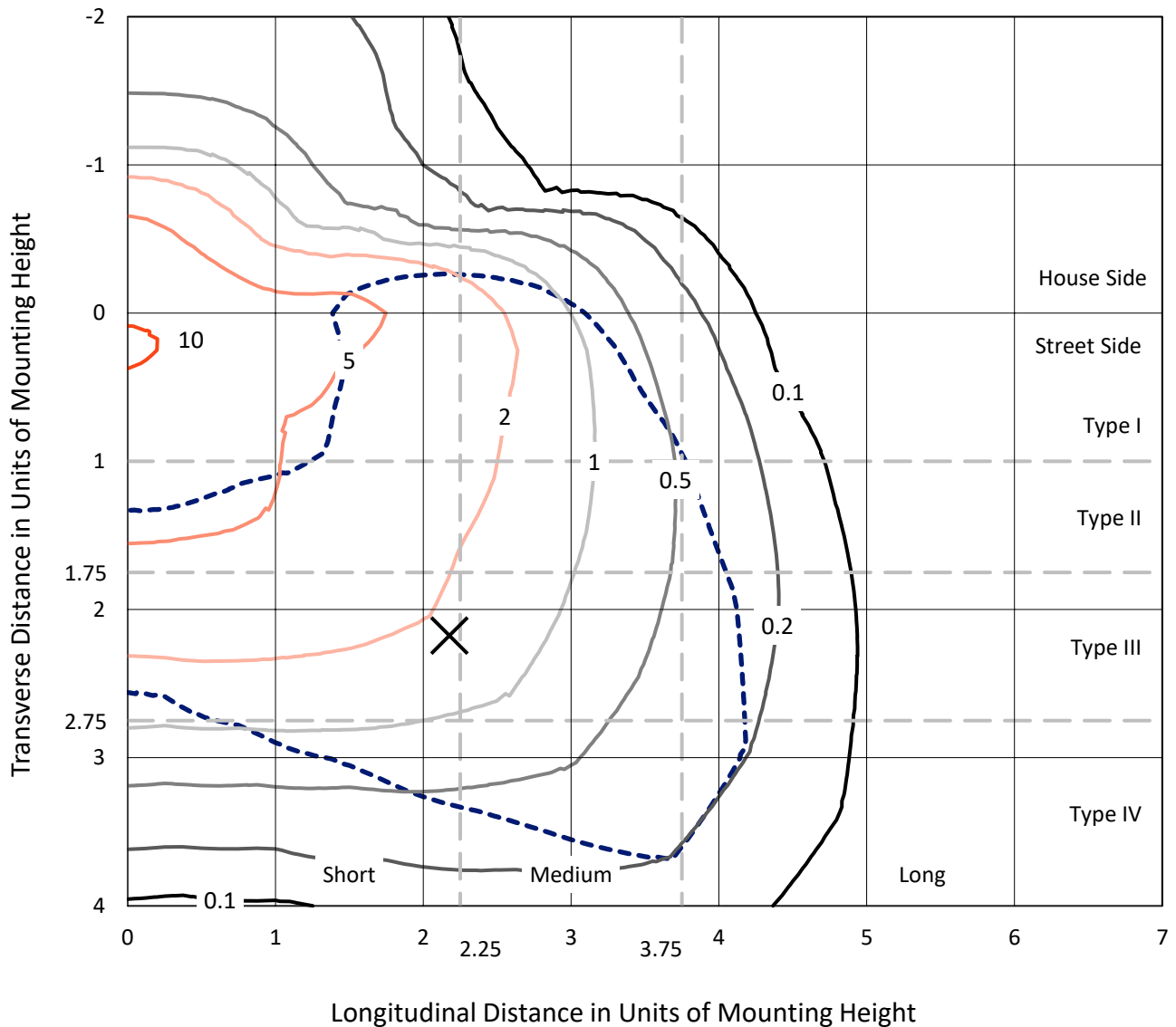
Lumens per Lamp: N/A
Luminaire Lumens: 8501 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

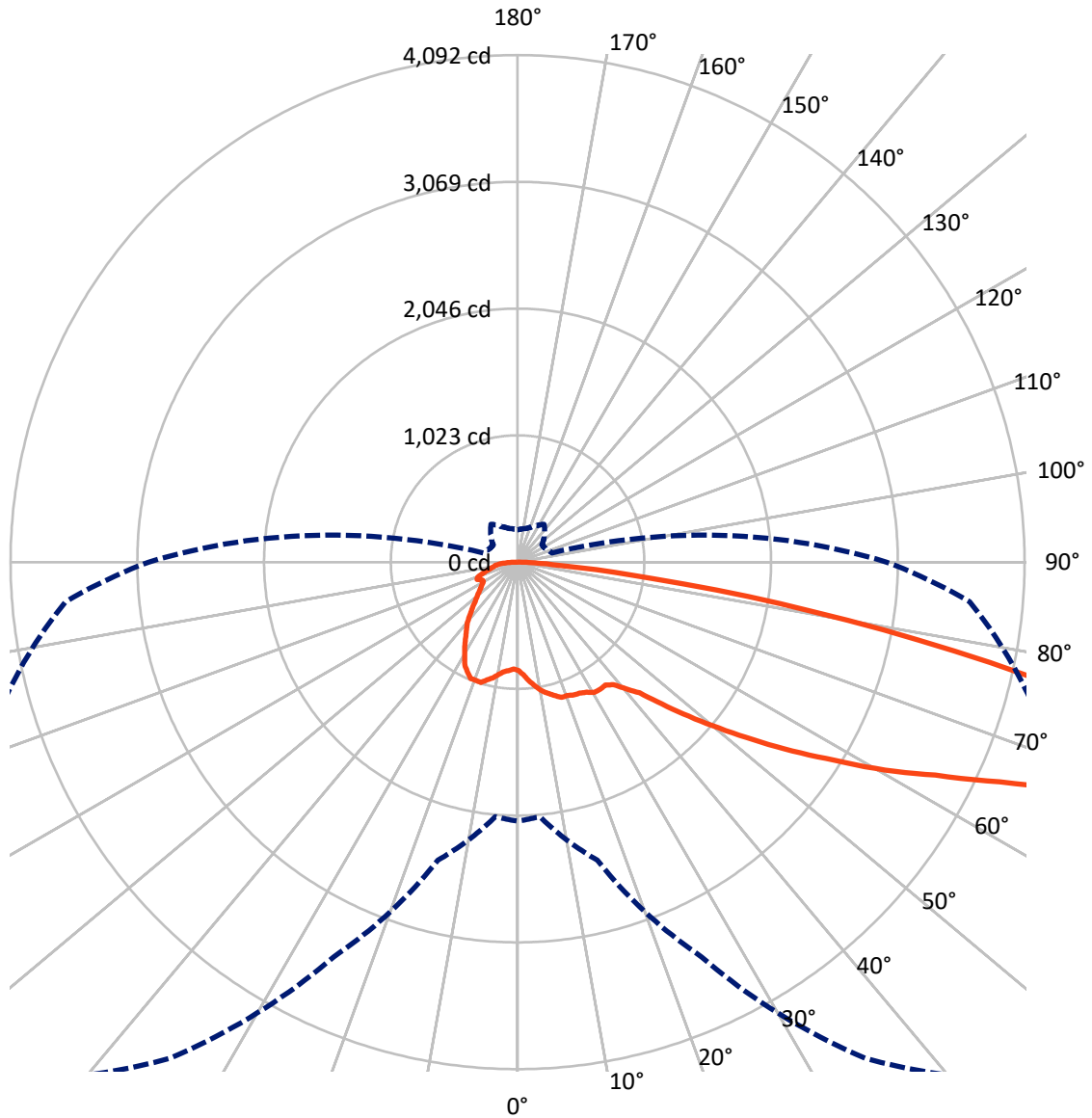
× Max cd
 - - - 1/2 Max cd



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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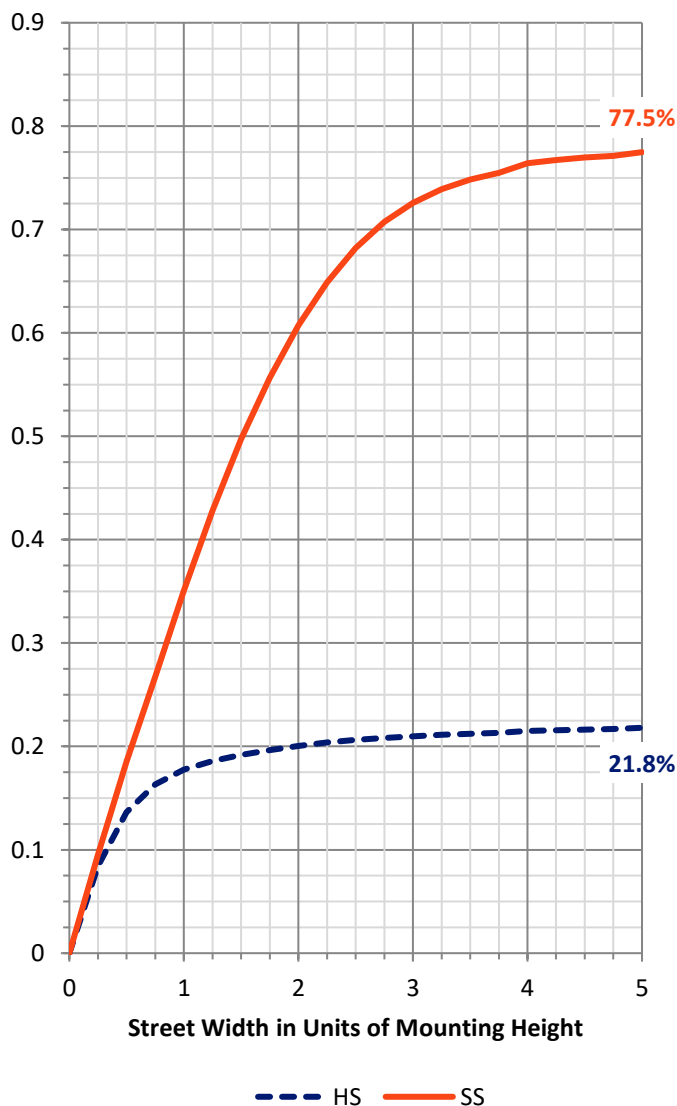
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1892.4	0.0	1892.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6608.6	0.0	6608.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	8501.0	0.0	8501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	1.1
10°-20°	298.0	3.5
20°-30°	503.3	5.9
30°-40°	696.5	8.2
40°-50°	996.3	11.7
50°-60°	1606.9	18.9
60°-70°	2370.0	27.9
70°-80°	1721.0	20.2
80°-90°	219.4	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°	8501.0	100.0
0°-180°	8501.0	100.0

Coefficient of Utilization



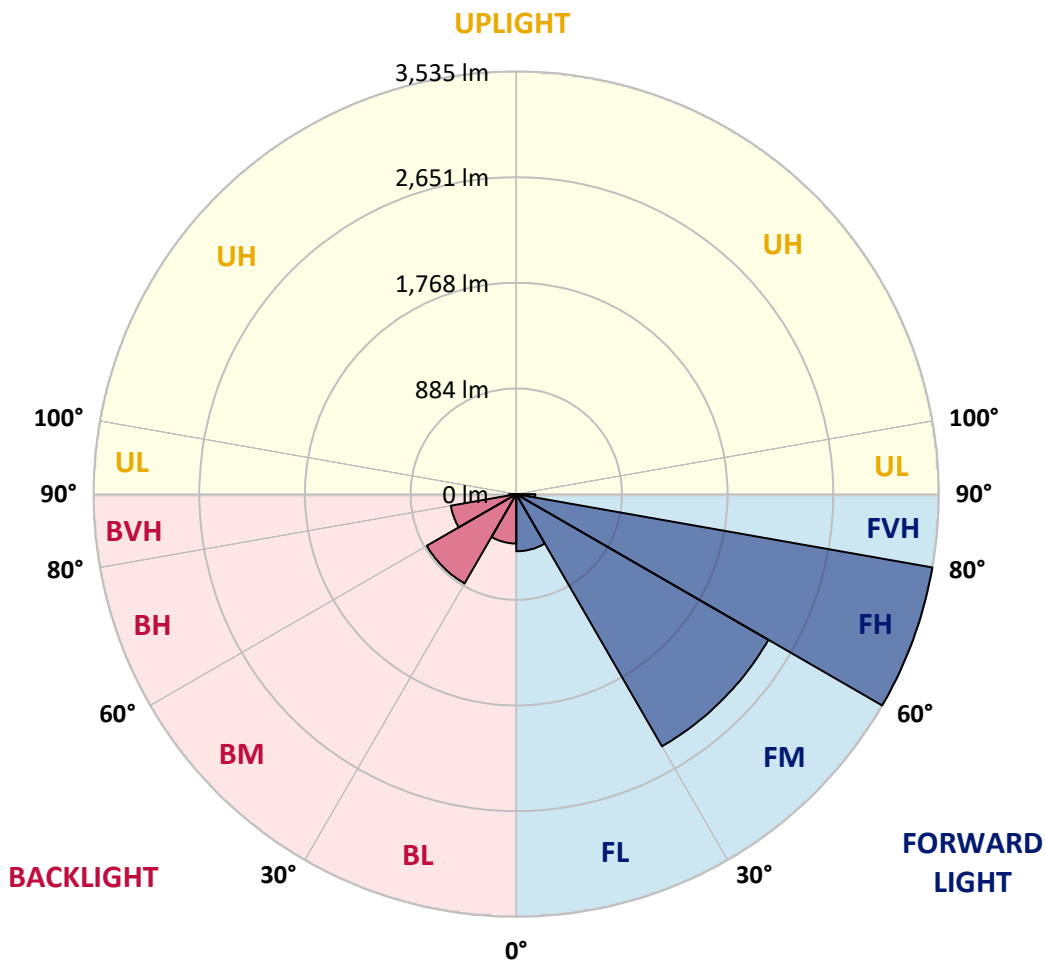
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.8	5.6			
FM (30°-60°)	2436.1	28.7			
FH (60°-80°)	3535.1	41.6			G2/5000
FVH (80°-90°)	159.7	1.9			G2/225
BL (0°-30°)	413.2	4.9	B1/500		
BM (30°-60°)	863.6	10.2	B1/1000		
BH (60°-80°)	555.9	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°	875.4	875.4	875.4	875.4	875.4	875.4	875.4	875.4	875.4	875.4	875.4
2.5°	922.2	927.7	922.2	921.3	912.1	905.7	911.2	902.9	893.8	890.1	881.9
5°	1006.5	1007.5	997.4	998.3	979.0	958.9	962.5	937.8	911.2	901.1	884.6
7.5°	1092.7	1082.6	1068.0	1063.4	1033.1	1011.1	1008.4	986.4	945.1	922.2	899.3
10°	1148.6	1152.3	1128.5	1108.3	1082.6	1056.0	1055.1	1013.9	990.0	956.1	926.8
12.5°	1198.1	1199.0	1178.9	1146.8	1114.7	1081.7	1086.3	1068.0	1027.6	995.5	966.2
15°	1236.6	1231.1	1209.1	1179.8	1145.9	1120.2	1117.5	1101.9	1068.0	1041.4	992.8
17.5°	1247.6	1244.9	1222.9	1191.7	1158.7	1139.5	1146.8	1121.1	1107.4	1083.5	1036.8
20°	1226.5	1220.1	1216.5	1181.6	1157.8	1156.0	1149.5	1155.0	1132.1	1110.1	1076.2
22.5°	1188.0	1185.3	1183.5	1156.0	1145.0	1153.2	1164.2	1172.5	1168.8	1147.7	1109.2
25°	1148.6	1161.5	1149.5	1136.7	1152.3	1173.4	1170.6	1197.2	1197.2	1190.8	1158.7
27.5°	1176.1	1167.9	1158.7	1152.3	1157.8	1190.8	1189.0	1221.0	1233.0	1221.0	1184.4
30°	1244.9	1236.6	1210.0	1181.6	1174.3	1210.0	1219.2	1247.6	1253.1	1223.8	1192.6
32.5°	1374.1	1369.5	1327.4	1244.0	1199.0	1219.2	1223.8	1255.9	1251.3	1233.0	1220.1
35°	1565.7	1550.1	1491.5	1350.3	1251.3	1231.1	1219.2	1244.9	1262.3	1253.1	1241.2
37.5°	1775.6	1758.2	1685.8	1507.1	1345.7	1263.2	1254.0	1275.1	1295.3	1290.7	1266.0
40°	1976.4	1976.4	1911.3	1703.2	1486.0	1341.1	1343.0	1319.1	1337.5	1329.2	1333.8
42.5°	2174.4	2167.1	2140.5	1933.3	1636.3	1471.3	1442.0	1382.4	1415.4	1412.6	1419.1
45°	2375.2	2369.7	2362.3	2147.8	1851.7	1647.3	1631.7	1524.5	1554.7	1541.9	1569.4
47.5°	2535.6	2542.0	2542.0	2387.1	2081.8	1882.0	1859.1	1689.5	1747.2	1753.6	1760.1
50°	2672.2	2674.9	2672.2	2615.3	2338.5	2150.6	2103.8	1931.5	1989.2	2039.7	2098.3
52.5°	2861.0	2864.7	2851.9	2829.9	2686.8	2432.9	2380.7	2189.1	2307.3	2360.5	2465.9
55°	3093.9	3066.4	3042.5	3059.0	3021.4	2743.7	2689.6	2454.9	2632.8	2703.3	2914.2
57.5°	3136.9	3160.8	3221.3	3352.4	3406.5	3046.2	3015.0	2781.3	3000.4	3061.8	3413.8
60°	3289.1	3249.7	3398.2	3682.4	3742.9	3440.4	3408.3	3138.8	3366.1	3430.3	3874.9
62.5°	3389.0	3387.2	3607.2	3944.6	4082.1	3849.2	3784.1	3603.5	3761.2	3823.6	4377.2
65°	3359.7	3386.3	3776.8	4098.6	4365.3	4314.0	4276.4	4003.2	4211.3	4205.8	4704.5
67.5°	3092.0	3167.2	3669.5	4209.5	4787.0	4880.5	4868.6	4565.2	4577.1	4460.7	4850.3
70°	2720.8	2695.1	3215.8	4094.0	4997.8	5552.4	5549.7	4983.2	4906.2	4516.6	4432.2
72°	2090.1	2061.7	2489.8	3515.5	4886.9	5821.0	5903.5	5272.9	4902.5	4284.7	3661.3
72.5°	1897.6	1872.8	2299.1	3309.3	4764.1	5890.7	5852.2	5283.9	4864.0	4175.6	3420.2
75°	873.6	845.2	1148.6	2025.9	3716.3	5219.7	5350.8	4944.7	4248.0	3324.0	2048.8
77.5°	260.3	252.1	369.4	817.7	2159.7	3845.6	3896.0	3731.0	2965.5	1820.6	759.9
80°	144.8	145.8	190.7	306.2	949.7	2223.0	2404.5	2304.6	1454.8	601.4	253.0
82.5°	80.7	85.3	119.2	181.5	436.3	1020.3	1098.2	1058.8	526.2	282.3	138.4
85°	42.2	44.0	62.3	97.2	247.5	322.7	331.8	355.7	273.2	192.5	74.3
87.5°	16.5	16.5	22.9	40.3	91.7	99.9	89.8	109.1	156.8	124.7	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°	875.4	875.4	875.4	875.4	875.4	875.4	875.4	875.4	875.4	875.4	875.4
2.5°	889.2	881.9	880.9	869.0	872.7	862.6	863.5	861.7	862.6	860.8	856.2
5°	884.6	879.1	863.5	873.6	864.4	877.3	887.4	883.7	886.4	885.5	886.4
7.5°	891.0	883.7	881.9	876.4	884.6	890.1	898.4	921.3	919.4	922.2	927.7
10°	910.3	902.0	896.5	904.8	900.2	917.6	926.8	938.7	959.8	960.7	949.7
12.5°	947.9	942.4	931.4	933.2	948.8	954.3	959.8	967.1	980.9	978.1	988.2
15°	991.0	979.0	972.6	970.8	974.5	980.9	980.0	987.3	994.6	1001.0	998.3
17.5°	1022.1	1006.5	1008.4	1017.5	1016.6	1014.8	1002.9	999.2	1002.9	1006.5	1004.7
20°	1054.2	1056.0	1042.3	1034.0	1030.4	1012.0	1002.9	991.9	980.9	986.4	994.6
22.5°	1094.5	1086.3	1066.1	1041.4	1023.0	1012.0	983.6	964.4	964.4	969.9	967.1
25°	1140.4	1123.0	1088.1	1043.2	1020.3	973.5	953.4	950.6	943.3	951.5	955.2
27.5°	1176.1	1160.5	1112.9	1036.8	973.5	936.0	924.0	920.4	932.3	933.2	947.9
30°	1190.8	1186.2	1116.5	1020.3	925.9	865.4	858.0	874.5	887.4	906.6	907.5
32.5°	1210.0	1211.9	1122.0	981.8	863.5	803.0	792.0	812.2	848.9	864.4	876.4
35°	1242.1	1251.3	1117.5	934.1	797.5	739.8	737.9	743.4	779.2	806.7	822.3
37.5°	1298.0	1296.2	1116.5	877.3	745.3	684.8	670.1	671.9	695.8	718.7	715.9
40°	1373.2	1365.9	1113.8	803.0	677.4	638.0	613.3	604.1	602.3	595.9	597.7
42.5°	1475.9	1461.2	1112.9	727.9	616.0	573.9	556.4	532.6	515.2	482.2	484.0
45°	1618.9	1593.2	1089.0	657.3	555.5	520.7	494.1	476.7	439.1	397.8	397.8
47.5°	1839.8	1756.4	1090.0	579.4	496.9	468.4	450.1	419.8	379.5	346.5	342.8
50°	2165.2	1974.6	1058.8	517.9	449.2	429.9	410.7	375.8	337.3	314.4	317.2
52.5°	2585.1	2300.0	1057.9	462.9	411.6	397.8	376.8	345.6	317.2	302.5	297.0
55°	3085.6	2730.8	1090.9	418.0	373.1	365.8	356.6	330.9	303.4	290.6	289.7
57.5°	3598.0	3151.6	1144.0	385.9	340.1	345.6	339.2	319.0	297.0	282.3	280.5
60°	4053.6	3485.3	1036.8	347.4	310.8	322.7	331.8	314.4	302.5	301.6	295.2
62.5°	4397.4	3628.3	788.4	318.1	295.2	317.2	341.9	352.9	347.4	354.8	355.7
65°	4523.0	3542.1	542.7	302.5	283.3	330.0	385.0	381.3	349.3	335.5	342.8
67.5°	4347.0	3192.9	402.4	284.2	275.0	356.6	409.8	363.9	315.3	313.5	308.0
70°	3738.3	2706.1	328.2	264.9	261.3	341.9	398.8	337.3	297.0	285.1	279.6
72°	2978.4	2107.5	287.8	251.2	239.3	305.3	373.1	316.3	281.4	266.8	260.3
72.5°	2718.9	1953.5	282.3	244.8	234.7	297.0	360.3	309.8	277.8	264.9	254.8
75°	1491.5	1000.1	248.4	224.6	198.0	256.7	333.7	290.6	262.2	243.8	242.0
77.5°	554.6	387.8	214.5	198.9	171.4	221.8	303.4	275.9	238.3	215.4	210.8
80°	212.7	204.4	175.1	167.8	143.9	194.3	279.6	247.5	202.6	179.7	172.3
82.5°	129.3	119.2	132.9	131.1	110.0	176.9	263.1	231.9	179.7	145.8	141.2
85°	70.6	70.6	92.6	88.9	77.0	141.2	198.9	154.0	113.7	93.5	95.3
87.5°	31.2	36.7	49.5	46.8	42.2	79.8	97.2	81.6	56.8	38.5	41.3
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)