

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: P478268

Luminaire Tested: **IFLD-S-SA2A-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478268
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

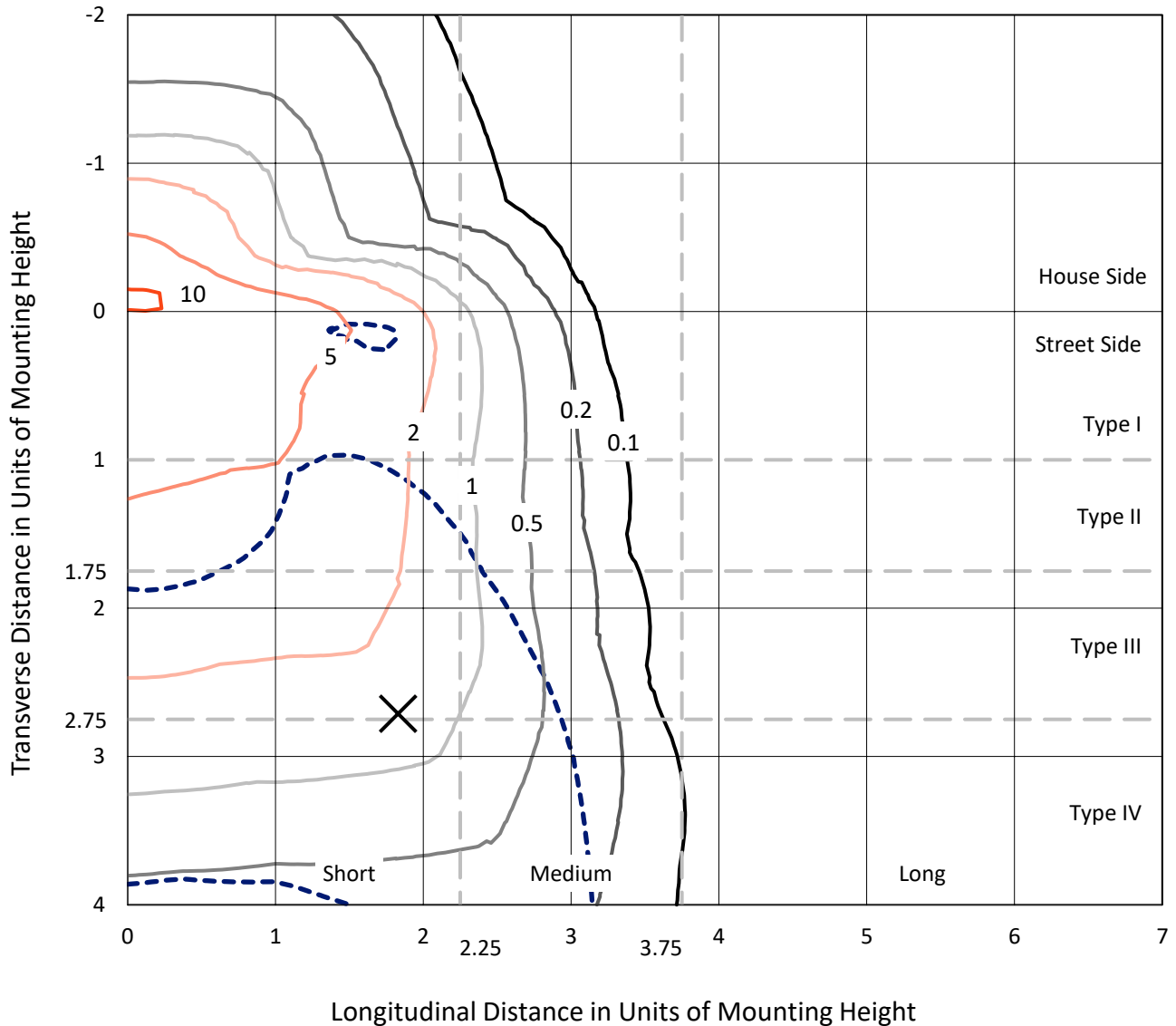
Lumens per Lamp: N/A
Luminaire Lumens: 6952.8 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P478268
 CATALOG NUMBER: IFLD-S-SA2A-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

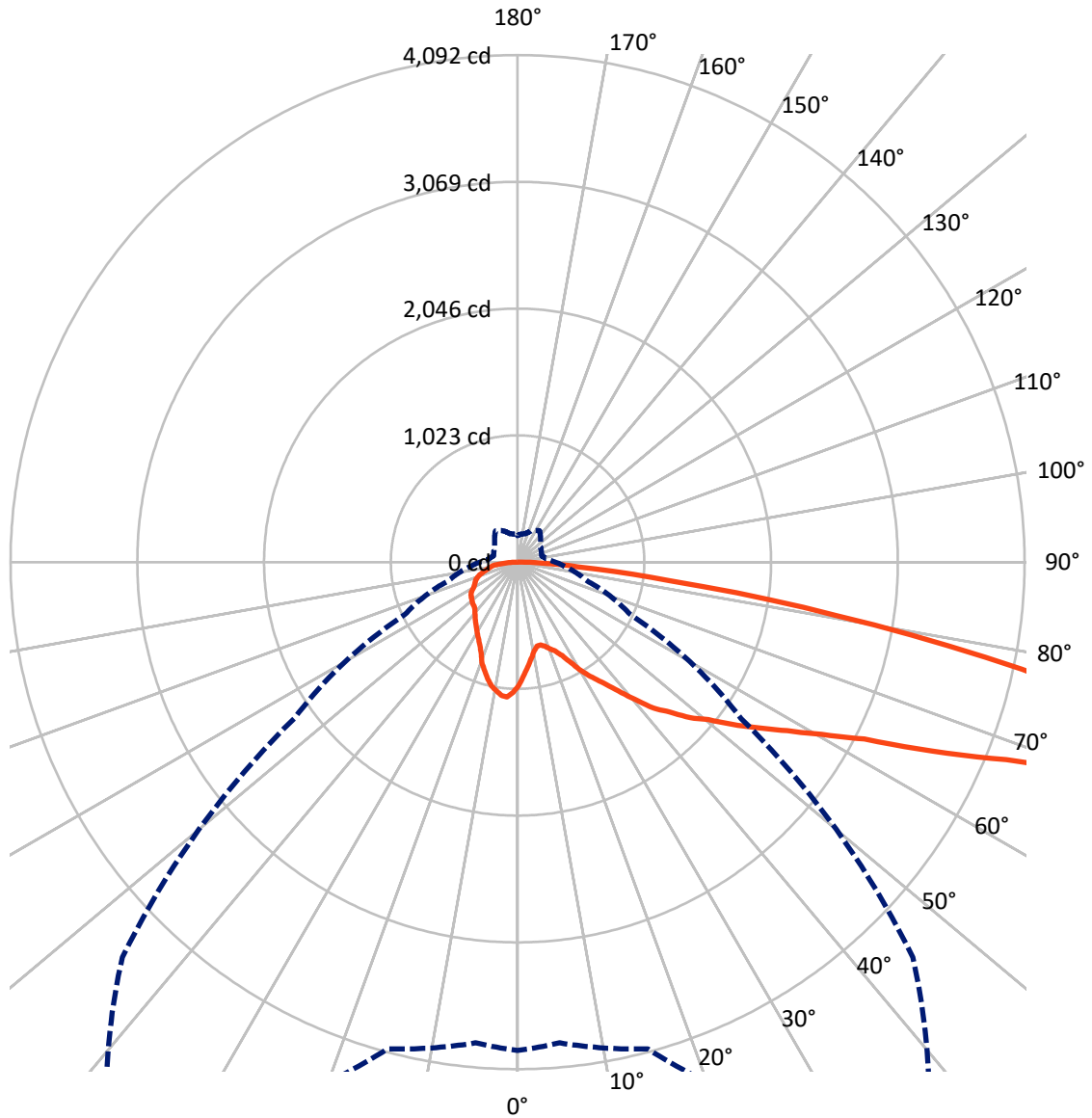
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P478268
CATALOG NUMBER: IFLD-S-SA2A-827-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478268
 CATALOG NUMBER: IFLD-S-SA2A-827-U-T4FT

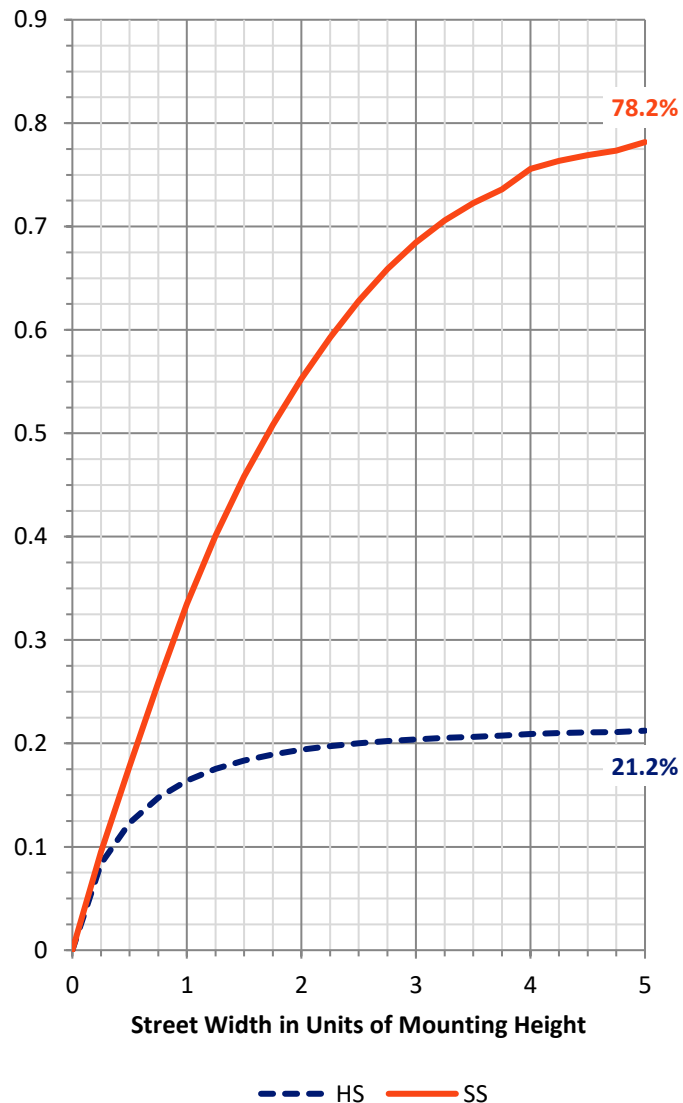
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1501.9	0.0	1501.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5450.9	0.0	5450.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	6952.8	0.0	6952.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.3
10°-20°	257.5	3.7
20°-30°	423.8	6.1
30°-40°	633.7	9.1
40°-50°	939.5	13.5
50°-60°	1353.9	19.5
60°-70°	1727.7	24.8
70°-80°	1344.5	19.3
80°-90°	180.4	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°	6952.8	100.0
0°-180°	6952.8	100.0

Coefficient of Utilization



REPORT NUMBER: P478268

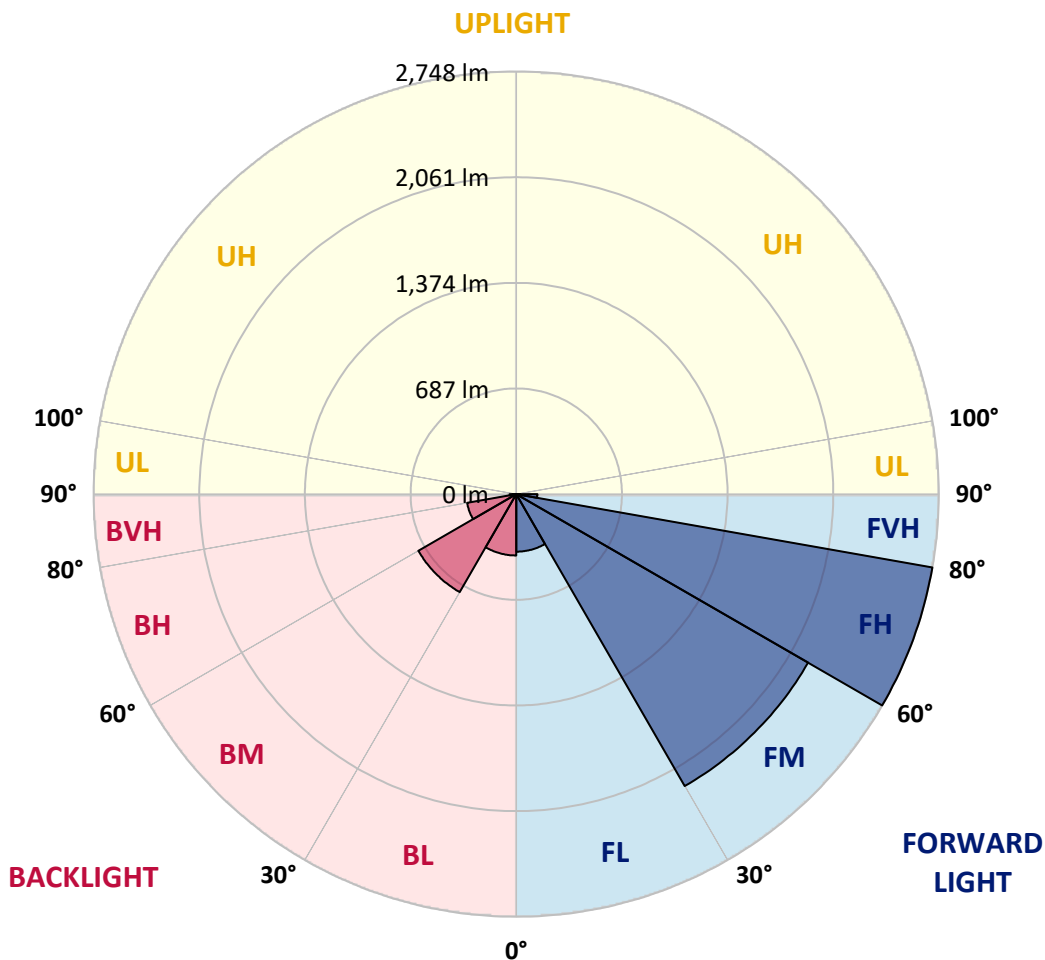
CATALOG NUMBER: IFLD-S-SA2A-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.2	5.4			
FM (30°-60°)	2191.6	31.5			
FH (60°-80°)	2747.9	39.5			G2/5000
FVH (80°-90°)	137.3	2.0			G2/225
BL (0°-30°)	399.0	5.7	B1/500		
BM (30°-60°)	735.5	10.6	B1/1000		
BH (60°-80°)	324.3	4.7	B1/500		G1/500
BVH (80°-90°)	43.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P478268
 CATALOG NUMBER: IFLD-S-SA2A-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.8
2.5°	893.1	896.1	905.6	907.8	918.1	912.3	924.8	946.8	959.3	977.7	999.7
5°	822.6	810.1	816.0	838.7	850.5	853.5	866.7	904.2	927.7	954.9	996.1
7.5°	739.5	737.3	749.1	763.8	787.3	789.5	818.9	852.0	900.5	960.8	1009.3
10°	682.9	692.5	699.1	714.5	730.7	730.7	768.2	825.5	880.6	938.7	1012.2
12.5°	680.0	674.1	675.6	683.6	695.4	710.1	745.4	796.8	866.7	934.3	1024.7
15°	689.5	691.7	678.5	688.8	693.2	698.3	737.3	795.4	857.9	949.7	1046.0
17.5°	740.2	727.7	707.2	697.6	713.0	713.0	739.5	785.1	859.3	957.8	1076.9
20°	779.9	779.9	746.1	735.8	746.9	744.7	763.0	796.8	866.7	974.0	1111.5
22.5°	846.8	856.4	800.5	779.2	778.5	784.4	800.5	829.2	887.3	996.8	1144.6
25°	943.1	945.3	880.6	858.6	835.1	844.6	847.6	876.2	905.6	1023.3	1182.0
27.5°	1050.5	1049.0	989.4	934.3	918.9	921.1	904.9	924.0	932.8	1031.3	1235.7
30°	1169.5	1156.3	1111.5	1033.6	1021.1	1007.1	971.8	971.1	989.4	1076.9	1309.9
32.5°	1247.5	1230.6	1199.7	1143.8	1109.3	1110.7	1054.9	1054.1	1038.0	1126.9	1374.6
35°	1323.9	1298.2	1290.1	1232.8	1198.2	1201.9	1157.0	1151.2	1121.8	1202.6	1481.2
37.5°	1415.8	1393.0	1405.5	1362.1	1319.5	1301.9	1281.3	1273.9	1235.7	1309.2	1626.8
40°	1517.2	1509.9	1501.8	1480.5	1454.8	1456.2	1434.2	1426.8	1370.2	1437.9	1766.4
42.5°	1654.0	1626.0	1584.1	1598.1	1611.3	1625.3	1618.0	1598.8	1540.0	1568.7	1922.3
45°	1781.1	1744.4	1667.2	1671.6	1726.0	1737.0	1826.0	1823.8	1705.4	1734.8	2099.4
47.5°	1867.2	1850.2	1803.9	1798.8	1876.7	1876.0	2036.2	2036.2	1879.7	1900.2	2289.8
50°	1995.1	1951.0	1931.1	1956.8	1996.5	2023.7	2250.9	2264.8	2050.9	2073.0	2539.0
52.5°	2145.0	2089.9	2039.9	2106.1	2176.6	2194.3	2463.3	2457.4	2182.5	2273.7	2830.9
55°	2269.3	2241.3	2206.8	2245.0	2360.4	2382.5	2676.5	2622.1	2314.1	2439.8	2971.3
57.5°	2414.1	2431.0	2438.3	2428.8	2566.2	2600.8	2919.8	2764.0	2427.3	2551.5	3053.6
60°	2632.4	2642.7	2652.2	2675.0	2820.6	2869.1	3112.4	2941.9	2498.6	2616.2	3060.2
62.5°	2964.7	2925.0	2946.3	3024.9	3141.8	3196.9	3396.2	3066.8	2553.0	2655.2	2844.1
65°	3344.7	3291.0	3269.0	3370.4	3673.3	3629.2	3750.5	3160.2	2474.3	2509.6	2411.9
67.5°	3729.9	3735.8	3679.2	3882.8	4254.0	4254.0	4079.8	3205.0	2261.2	2034.0	1691.5
70°	4035.7	4054.1	4085.0	4479.7	5067.8	5156.7	4487.8	3021.3	1826.7	1354.1	924.8
72.5°	4031.3	3976.2	4134.2	4861.2	5807.3	5733.0	4573.1	2389.1	1140.1	663.1	424.2
73°	3940.9	3894.6	4067.3	4857.5	5837.4	5767.6	4510.6	2202.4	1005.6	574.8	377.1
75°	3218.3	3134.5	3428.5	4399.6	5400.8	5454.4	3832.1	1436.4	551.3	354.3	265.4
77.5°	1467.3	1504.0	1887.0	2951.4	4162.1	4225.4	2519.2	621.2	302.1	248.5	195.5
80°	471.2	494.7	734.4	1467.3	2608.9	2722.8	1164.4	282.3	215.4	190.4	146.3
82.5°	180.1	179.4	308.0	610.1	1236.4	1309.2	425.6	172.0	160.3	140.4	103.6
85°	63.2	66.2	116.1	241.1	486.6	509.4	147.8	95.6	111.0	94.1	59.5
87.5°	22.1	22.8	41.2	87.5	167.6	177.2	41.2	38.2	55.1	54.4	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478268
 CATALOG NUMBER: IFLD-S-SA2A-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.8
2.5°	1007.1	1013.7	1015.9	1042.4	1042.4	1042.4	1052.7	1052.7	1049.7	1042.4	1060.0
5°	1011.5	1023.3	1046.0	1068.8	1074.7	1079.9	1093.8	1082.1	1086.5	1079.1	1085.7
7.5°	1024.0	1040.2	1082.8	1096.8	1087.2	1098.2	1083.5	1075.5	1067.4	1070.3	1060.0
10°	1045.3	1065.9	1085.7	1111.5	1093.1	1082.1	1051.9	1044.6	1018.8	1010.0	1018.1
12.5°	1071.8	1096.8	1130.6	1121.0	1085.7	1054.1	1021.8	990.9	975.5	953.4	959.3
15°	1098.2	1126.9	1132.1	1115.9	1071.8	1032.1	973.3	929.9	914.5	894.6	904.9
17.5°	1126.9	1154.1	1145.3	1103.4	1043.8	983.6	916.7	874.0	841.7	829.2	829.2
20°	1169.5	1182.8	1168.8	1082.8	1010.0	930.6	865.9	817.4	785.1	779.9	771.9
22.5°	1202.6	1223.9	1161.5	1052.7	960.8	861.5	787.3	768.9	759.4	751.3	741.0
25°	1245.3	1244.5	1148.2	1024.7	876.2	779.2	734.4	732.9	728.5	725.5	739.5
27.5°	1285.7	1268.8	1132.8	955.6	788.8	716.7	692.5	708.6	715.3	710.8	716.7
30°	1349.6	1321.7	1110.7	882.1	711.6	653.5	657.9	680.0	691.0	697.6	688.8
32.5°	1417.3	1374.6	1065.2	805.7	643.2	613.8	624.1	646.9	660.1	667.5	675.6
35°	1515.0	1415.8	1018.8	705.7	594.0	589.6	595.4	607.9	627.0	632.2	634.4
37.5°	1635.6	1478.3	956.4	625.6	555.7	560.9	566.8	571.2	571.9	581.5	577.8
40°	1756.2	1531.2	865.2	549.1	516.0	544.0	541.0	532.9	526.3	517.5	515.3
42.5°	1862.0	1577.5	763.8	484.4	480.8	526.3	516.8	496.2	480.8	474.1	463.1
45°	1981.1	1642.9	661.6	444.0	453.6	505.0	502.1	470.5	450.6	427.1	424.2
47.5°	2135.5	1711.3	563.8	402.1	427.8	496.9	498.4	458.0	429.3	397.7	393.3
50°	2333.2	1809.8	489.6	384.5	412.4	485.2	487.4	441.1	403.6	371.2	368.3
52.5°	2522.9	1910.5	427.8	357.3	402.1	471.2	476.3	425.6	382.3	341.8	344.0
55°	2618.4	1873.8	374.9	337.4	378.6	448.4	467.5	414.6	349.9	322.0	321.2
57.5°	2639.7	1783.4	333.0	316.8	358.7	424.2	452.8	381.5	335.2	311.7	308.7
60°	2569.9	1625.3	299.9	294.8	333.7	399.2	419.0	363.9	320.5	301.4	297.0
62.5°	2397.9	1461.4	277.1	284.5	312.4	372.0	397.7	351.4	306.5	293.3	283.7
65°	1966.4	1201.9	258.8	264.6	290.4	345.5	384.5	337.4	294.0	281.5	280.8
67.5°	1362.1	828.5	244.1	255.1	272.7	326.4	371.2	322.0	277.9	273.5	267.6
70°	697.6	441.8	224.9	233.8	253.6	302.1	347.7	305.8	261.0	260.2	252.9
72.5°	353.6	258.8	202.9	216.1	230.1	270.5	318.3	284.5	239.6	231.6	219.8
73°	305.8	239.6	199.2	211.0	224.2	261.7	309.5	279.3	236.7	224.9	213.9
75°	222.7	188.9	178.6	190.4	200.7	236.0	280.1	255.8	217.6	205.1	194.8
77.5°	166.9	145.5	148.5	161.7	170.5	203.6	249.2	231.6	197.0	180.1	175.7
80°	122.8	111.0	122.8	135.3	141.9	179.4	227.1	200.7	166.1	147.0	143.3
82.5°	87.5	80.9	94.8	102.9	105.9	148.5	204.4	160.3	125.7	100.7	92.6
85°	50.0	49.3	64.0	63.2	65.4	86.7	134.5	106.6	80.9	61.7	60.3
87.5°	22.1	24.3	32.3	25.7	27.2	41.2	57.3	39.7	33.1	18.4	14.0
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)