

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: P478269

Luminaire Tested: **IFLD-S-SA2B-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478269
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

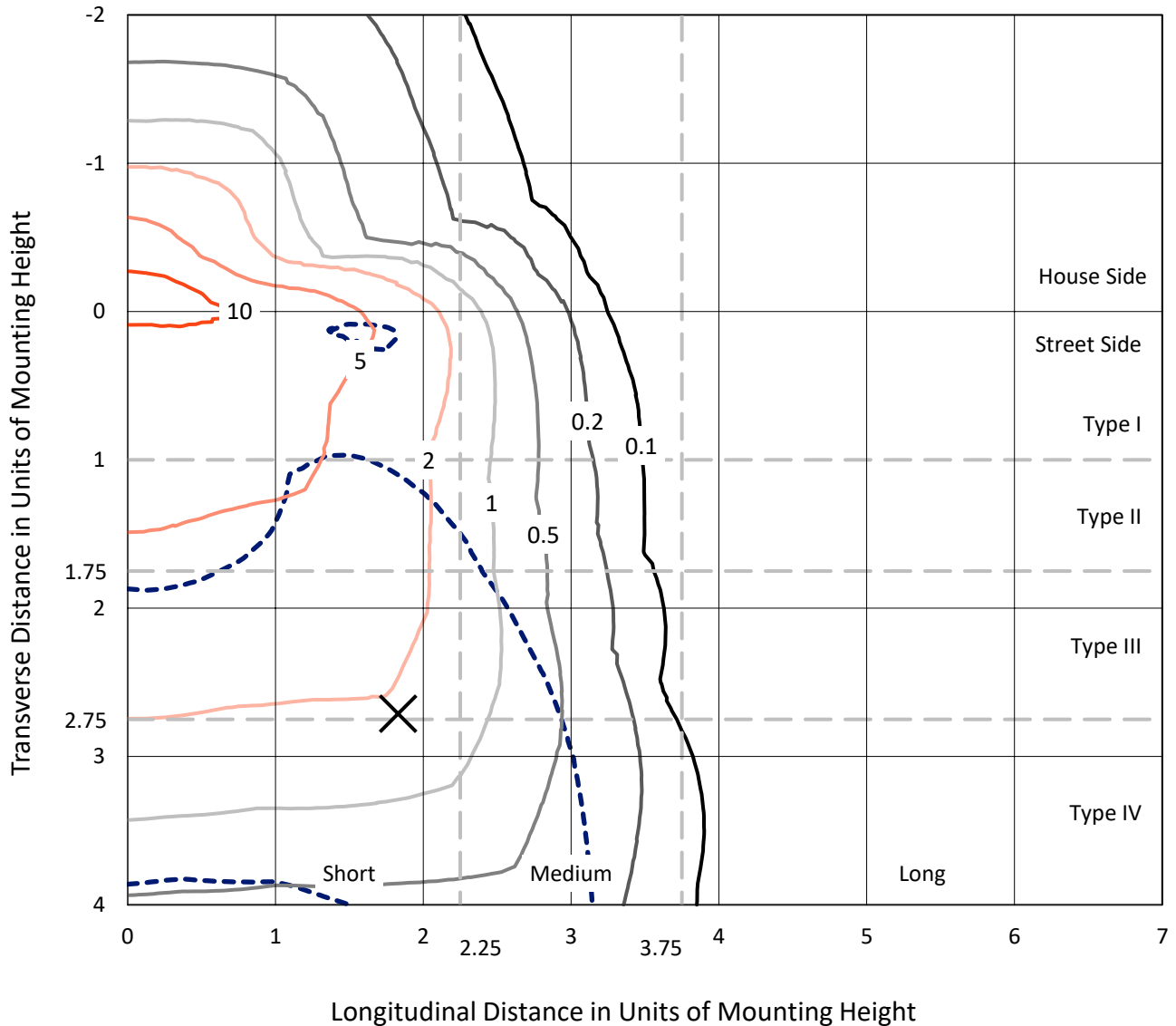
Lumens per Lamp: N/A
Luminaire Lumens: 8598.8 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P478269
 CATALOG NUMBER: IFLD-S-SA2B-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

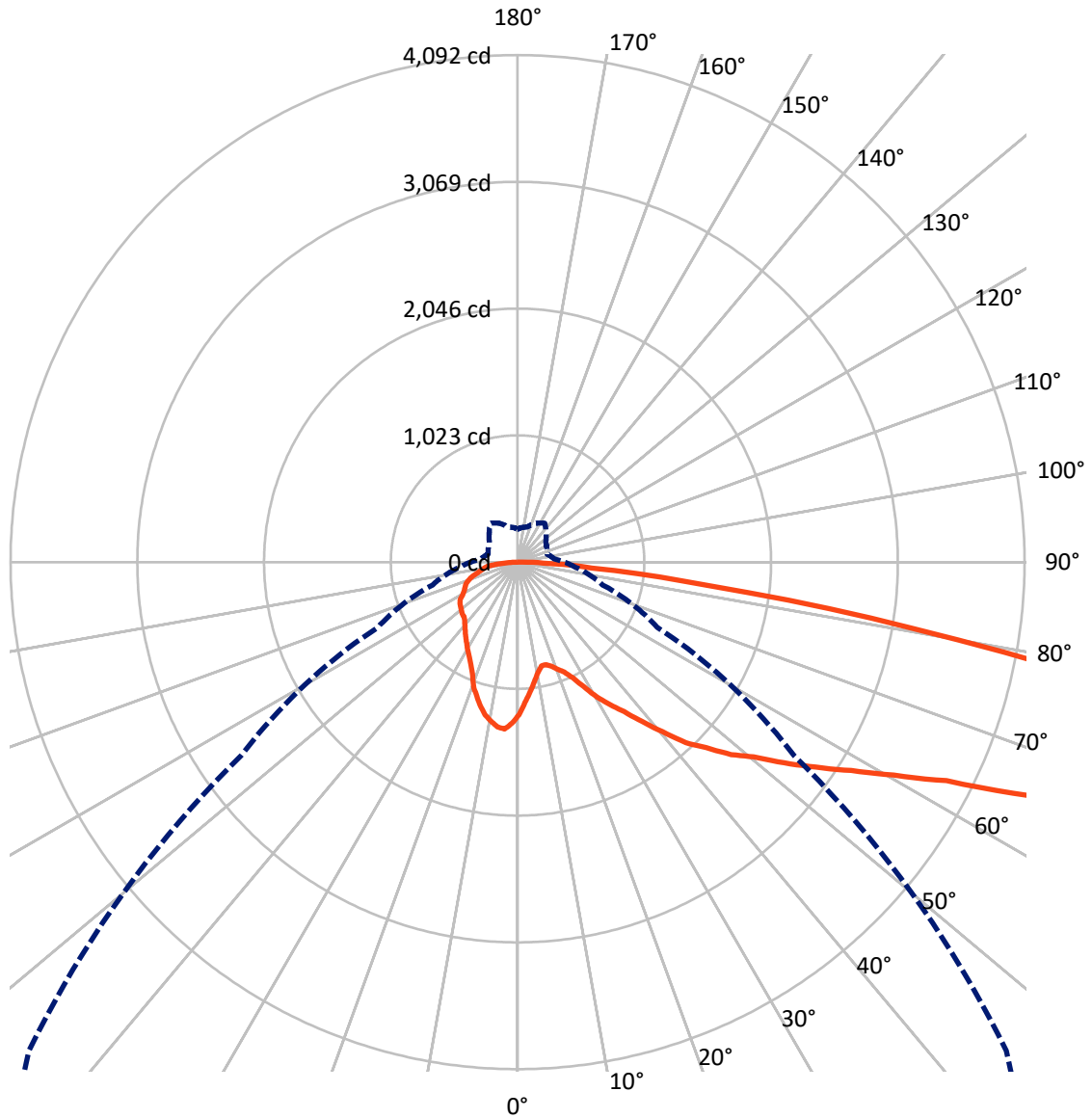
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P478269
CATALOG NUMBER: IFLD-S-SA2B-827-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478269

CATALOG NUMBER: IFLD-S-SA2B-827-U-T4FT

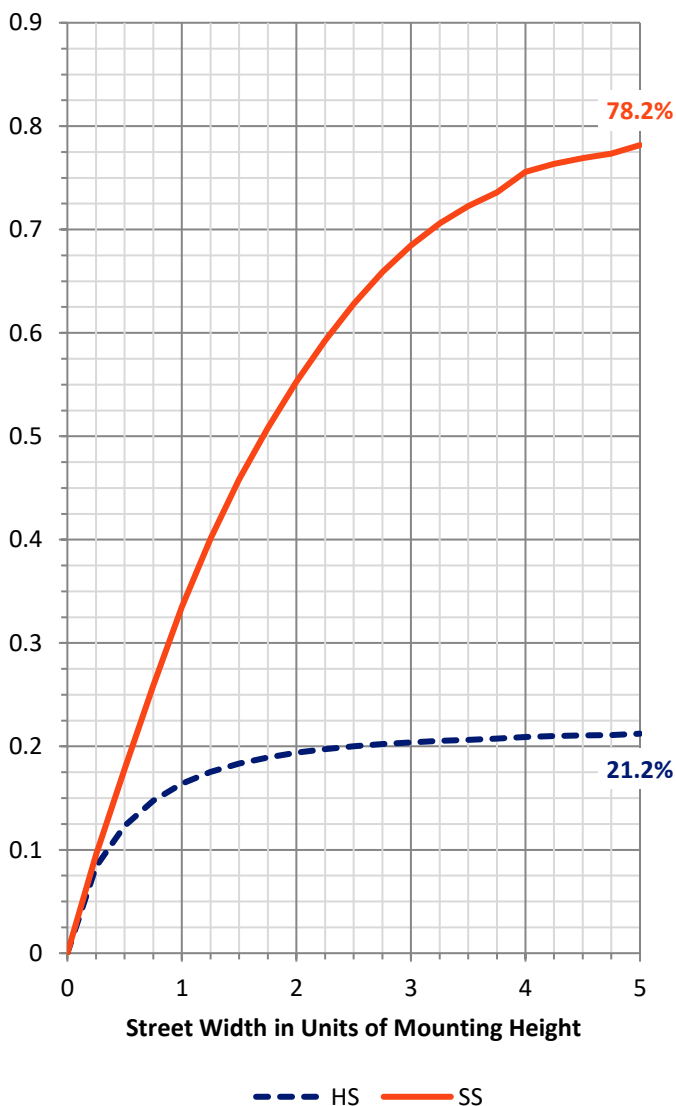
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1857.4	0.0	1857.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6741.3	0.0	6741.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	8598.8	0.0	8598.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.3
10°-20°	318.4	3.7
20°-30°	524.1	6.1
30°-40°	783.7	9.1
40°-50°	1161.9	13.5
50°-60°	1674.4	19.5
60°-70°	2136.7	24.8
70°-80°	1662.7	19.3
80°-90°	223.1	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°	8598.8	100.0
0°-180°	8598.8	100.0

Coefficient of Utilization



REPORT NUMBER: P478269

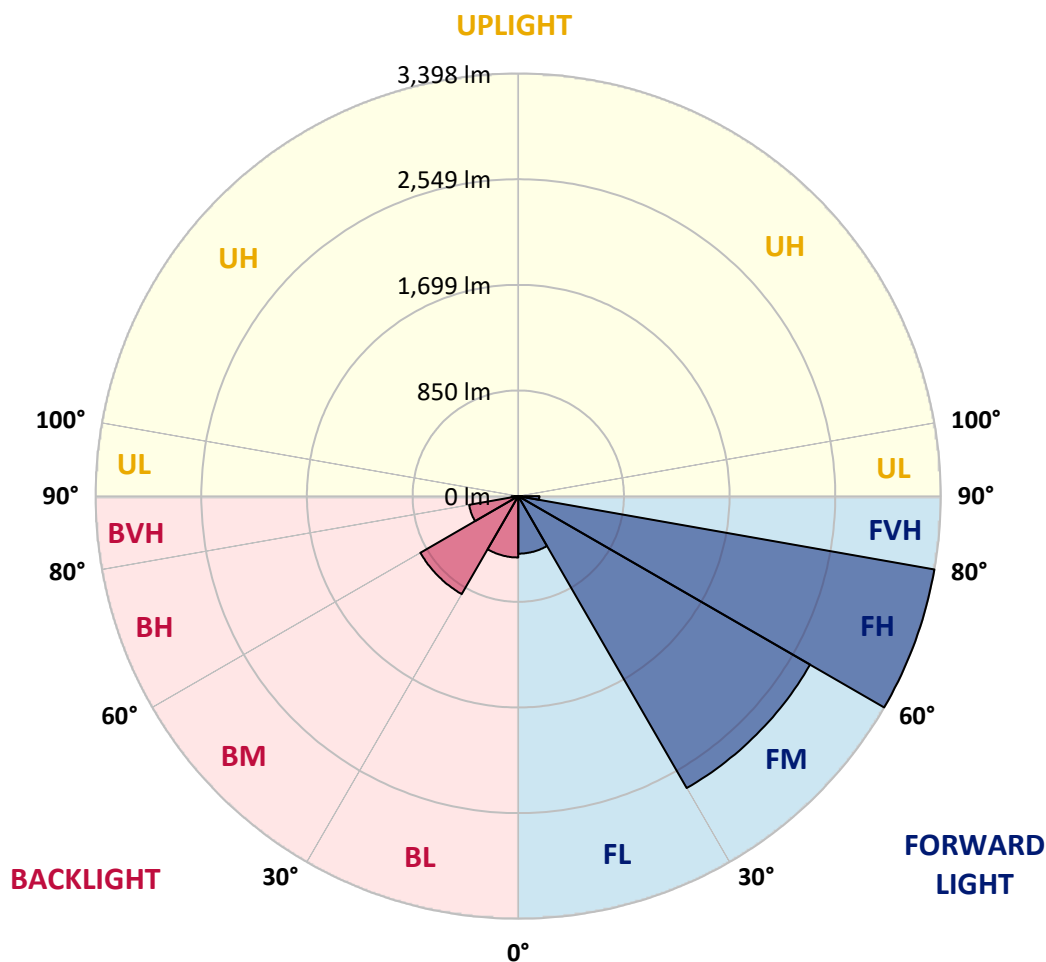
CATALOG NUMBER: IFLD-S-SA2B-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.8	5.4			
FM (30°-60°)	2710.4	31.5			
FH (60°-80°)	3398.4	39.5			G2/5000
FVH (80°-90°)	169.8	2.0			G2/225
BL (0°-30°)	493.5	5.7	B1/500		
BM (30°-60°)	909.6	10.6	B1/1000		
BH (60°-80°)	401.1	4.7	B1/500		G1/500
BVH (80°-90°)	53.3	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: P478269

CATALOG NUMBER: IFLD-S-SA2B-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8
2.5°	1104.6	1108.2	1120.0	1122.8	1135.5	1128.2	1143.7	1170.9	1186.4	1209.1	1236.4
5°	1017.3	1001.9	1009.1	1037.3	1051.9	1055.5	1071.9	1118.2	1147.3	1180.9	1231.9
7.5°	914.6	911.8	926.4	944.6	973.7	976.4	1012.8	1053.7	1113.7	1188.2	1248.2
10°	844.6	856.4	864.6	883.7	903.7	903.7	950.0	1020.9	1089.1	1160.9	1251.9
12.5°	840.9	833.7	835.5	845.5	860.0	878.2	921.8	985.5	1071.9	1155.5	1267.3
15°	852.8	855.5	839.1	851.8	857.3	863.7	911.8	983.7	1060.9	1174.6	1293.7
17.5°	915.5	900.0	874.6	862.8	881.8	881.8	914.6	970.9	1062.8	1184.6	1331.9
20°	964.6	964.6	922.8	910.0	923.7	920.9	943.7	985.5	1071.9	1204.6	1374.6
22.5°	1047.3	1059.1	990.0	963.7	962.8	970.0	990.0	1025.5	1097.3	1232.8	1415.5
25°	1166.4	1169.1	1089.1	1061.9	1032.8	1044.6	1048.2	1083.7	1120.0	1265.5	1461.9
27.5°	1299.1	1297.3	1223.7	1155.5	1136.4	1139.1	1119.1	1142.8	1153.7	1275.5	1528.2
30°	1446.4	1430.0	1374.6	1278.2	1262.8	1245.5	1201.9	1200.9	1223.7	1331.9	1620.1
32.5°	1542.8	1521.9	1483.7	1414.6	1371.9	1373.7	1304.6	1303.7	1283.7	1393.7	1700.1
35°	1637.3	1605.5	1595.5	1524.6	1481.9	1486.4	1431.0	1423.7	1387.3	1487.3	1831.9
37.5°	1751.0	1722.8	1738.2	1684.6	1631.9	1610.1	1584.6	1575.5	1528.2	1619.1	2011.9
40°	1876.4	1867.3	1857.3	1831.0	1799.2	1801.0	1773.7	1764.6	1694.6	1778.2	2184.6
42.5°	2045.5	2011.0	1959.2	1976.4	1992.8	2010.1	2001.0	1977.3	1904.6	1940.1	2377.4
45°	2202.8	2157.3	2061.9	2067.3	2134.6	2148.3	2258.3	2255.5	2109.2	2145.5	2596.4
47.5°	2309.2	2288.3	2231.0	2224.6	2321.0	2320.1	2518.3	2518.3	2324.6	2350.1	2831.9
50°	2467.4	2412.8	2388.3	2420.1	2469.2	2502.8	2783.7	2801.0	2536.4	2563.7	3140.1
52.5°	2652.8	2584.6	2522.8	2604.6	2691.9	2713.7	3046.5	3039.2	2699.2	2811.9	3501.0
55°	2806.5	2771.9	2729.2	2776.5	2919.2	2946.5	3310.1	3242.8	2861.9	3017.4	3674.7
57.5°	2985.6	3006.5	3015.6	3003.7	3173.7	3216.5	3611.0	3418.3	3001.9	3155.6	3776.5
60°	3255.6	3268.3	3280.1	3308.3	3488.3	3548.3	3849.2	3638.3	3090.1	3235.6	3784.7
62.5°	3666.5	3617.4	3643.8	3741.0	3885.6	3953.8	4200.1	3792.9	3157.4	3283.7	3517.4
65°	4136.5	4070.1	4042.9	4168.3	4542.9	4488.3	4638.3	3908.3	3060.1	3103.7	2982.8
67.5°	4612.9	4620.2	4550.1	4802.0	5261.1	5261.1	5045.6	3963.8	2796.5	2515.5	2091.9
70°	4991.1	5013.8	5052.0	5540.2	6267.5	6377.5	5550.2	3736.5	2259.2	1674.6	1143.7
72.5°	4985.6	4917.4	5112.9	6012.0	7182.1	7090.2	5655.6	2954.6	1410.0	820.0	524.6
73°	4873.8	4816.5	5030.2	6007.5	7219.3	7133.0	5578.4	2723.7	1243.7	710.9	466.4
75°	3980.1	3876.5	4240.1	5441.1	6679.3	6745.7	4739.2	1776.4	681.8	438.2	328.2
77.5°	1814.6	1860.1	2333.7	3650.1	5147.4	5225.6	3115.6	768.2	373.6	307.3	241.8
80°	582.7	611.8	908.2	1814.6	3226.5	3367.4	1440.0	349.1	266.4	235.5	180.9
82.5°	222.7	221.8	380.9	754.6	1529.1	1619.1	526.4	212.7	198.2	173.6	128.2
85°	78.2	81.8	143.6	298.2	601.8	630.0	182.7	118.2	137.3	116.4	73.6
87.5°	27.3	28.2	50.9	108.2	207.3	219.1	50.9	47.3	68.2	67.3	37.3
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: P478269
 CATALOG NUMBER: IFLD-S-SA2B-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8
2.5°	1245.5	1253.7	1256.4	1289.1	1289.1	1289.1	1301.9	1301.9	1298.2	1289.1	1311.0
5°	1251.0	1265.5	1293.7	1321.9	1329.1	1335.5	1352.8	1338.2	1343.7	1334.6	1342.8
7.5°	1266.4	1286.4	1339.1	1356.4	1344.6	1358.2	1340.0	1330.0	1320.0	1323.7	1311.0
10°	1292.8	1318.2	1342.8	1374.6	1351.9	1338.2	1301.0	1291.9	1260.0	1249.1	1259.1
12.5°	1325.5	1356.4	1398.2	1386.4	1342.8	1303.7	1263.7	1225.5	1206.4	1179.1	1186.4
15°	1358.2	1393.7	1400.0	1380.0	1325.5	1276.4	1203.7	1150.0	1130.9	1106.4	1119.1
17.5°	1393.7	1427.3	1416.4	1364.6	1291.0	1216.4	1133.7	1080.9	1040.9	1025.5	1025.5
20°	1446.4	1462.8	1445.5	1339.1	1249.1	1150.9	1070.9	1010.9	970.9	964.6	954.6
22.5°	1487.3	1513.7	1436.4	1301.9	1188.2	1065.5	973.7	950.9	939.1	929.1	916.4
25°	1540.1	1539.1	1420.0	1267.3	1083.7	963.7	908.2	906.4	900.9	897.3	914.6
27.5°	1590.1	1569.1	1401.0	1181.9	975.5	886.4	856.4	876.4	884.6	879.1	886.4
30°	1669.1	1634.6	1373.7	1090.9	880.0	808.2	813.7	840.9	854.6	862.8	851.8
32.5°	1752.8	1700.1	1317.3	996.4	795.5	759.1	771.8	800.0	816.4	825.5	835.5
35°	1873.7	1751.0	1260.0	872.8	734.6	729.1	736.4	751.8	775.5	781.8	784.6
37.5°	2022.8	1828.2	1182.8	773.7	687.3	693.7	700.9	706.4	707.3	719.1	714.6
40°	2171.9	1893.7	1070.0	679.1	638.2	672.7	669.1	659.1	650.9	640.0	637.3
42.5°	2302.8	1951.0	944.6	599.1	594.6	650.9	639.1	613.7	594.6	586.4	572.7
45°	2450.1	2031.9	818.2	549.1	560.9	624.6	620.9	581.8	557.3	528.2	524.6
47.5°	2641.0	2116.4	697.3	497.3	529.1	614.6	616.4	566.4	530.9	491.8	486.4
50°	2885.5	2238.3	605.5	475.5	510.0	600.0	602.7	545.5	499.1	459.1	455.5
52.5°	3120.1	2362.8	529.1	441.8	497.3	582.7	589.1	526.4	472.7	422.7	425.5
55°	3238.3	2317.3	463.7	417.3	468.2	554.6	578.2	512.7	432.7	398.2	397.3
57.5°	3264.7	2205.5	411.8	391.8	443.7	524.6	560.0	471.8	414.6	385.5	381.8
60°	3178.3	2010.1	370.9	364.6	412.7	493.7	518.2	450.0	396.4	372.7	367.3
62.5°	2965.6	1807.3	342.7	351.8	386.4	460.0	491.8	434.6	379.1	362.7	350.9
65°	2431.9	1486.4	320.0	327.3	359.1	427.3	475.5	417.3	363.6	348.2	347.3
67.5°	1684.6	1024.6	301.8	315.5	337.3	403.6	459.1	398.2	343.6	338.2	330.9
70°	862.8	546.4	278.2	289.1	313.6	373.6	430.0	378.2	322.7	321.8	312.7
72.5°	437.3	320.0	250.9	267.3	284.6	334.6	393.6	351.8	296.4	286.4	271.8
73°	378.2	296.4	246.4	260.9	277.3	323.6	382.7	345.5	292.7	278.2	264.6
75°	275.5	233.6	220.9	235.5	248.2	291.8	346.4	316.4	269.1	253.6	240.9
77.5°	206.4	180.0	183.6	200.0	210.9	251.8	308.2	286.4	243.6	222.7	217.3
80°	151.8	137.3	151.8	167.3	175.5	221.8	280.9	248.2	205.5	181.8	177.3
82.5°	108.2	100.0	117.3	127.3	130.9	183.6	252.7	198.2	155.5	124.5	114.5
85°	61.8	60.9	79.1	78.2	80.9	107.3	166.4	131.8	100.0	76.4	74.5
87.5°	27.3	30.0	40.0	31.8	33.6	50.9	70.9	49.1	40.9	22.7	17.3
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)