

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: P476479

Luminaire Tested: **IFLD-S-SA3A-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476479
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

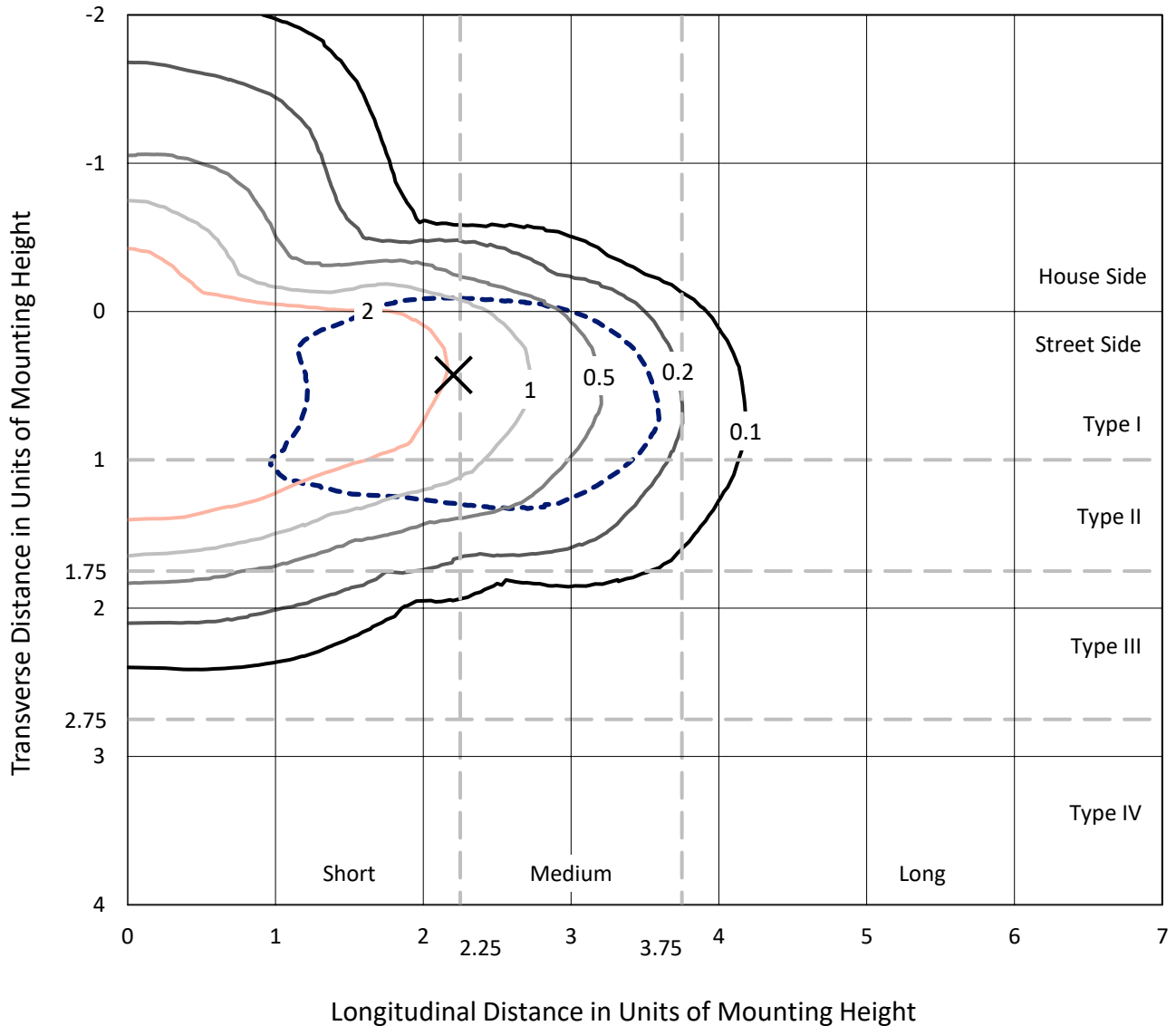
Lumens per Lamp: N/A
Luminaire Lumens: 11492.4 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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: P476479
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

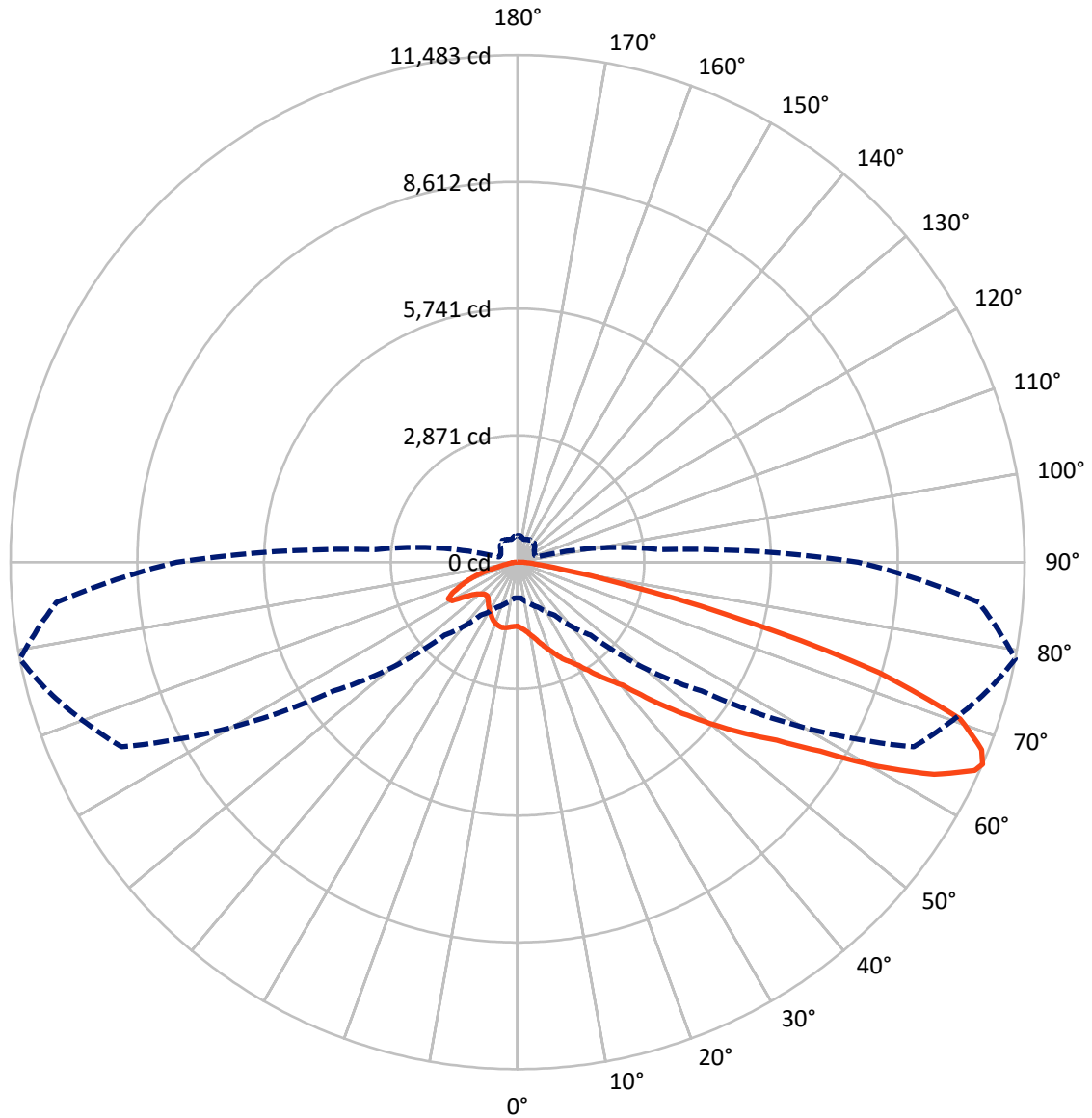
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P476479
CATALOG NUMBER: IFLD-S-SA3A-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476479
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T2

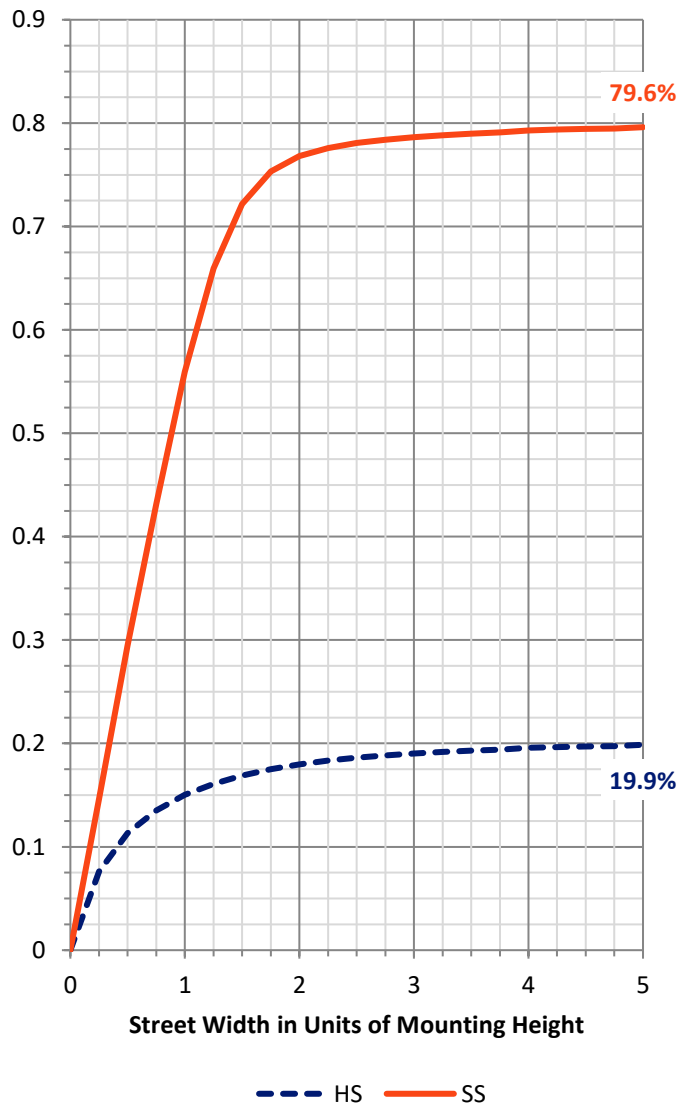
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2320.7	0.0	2320.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	9171.6	0.0	9171.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	11492.4	0.0	11492.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	1.2
10°-20°	440.6	3.8
20°-30°	756.4	6.6
30°-40°	1168.4	10.2
40°-50°	1871.5	16.3
50°-60°	2794.3	24.3
60°-70°	2871.1	25.0
70°-80°	1272.7	11.1
80°-90°	174.6	1.5
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°	11492.4	100.0
0°-180°	11492.4	100.0

Coefficient of Utilization



REPORT NUMBER: P476479

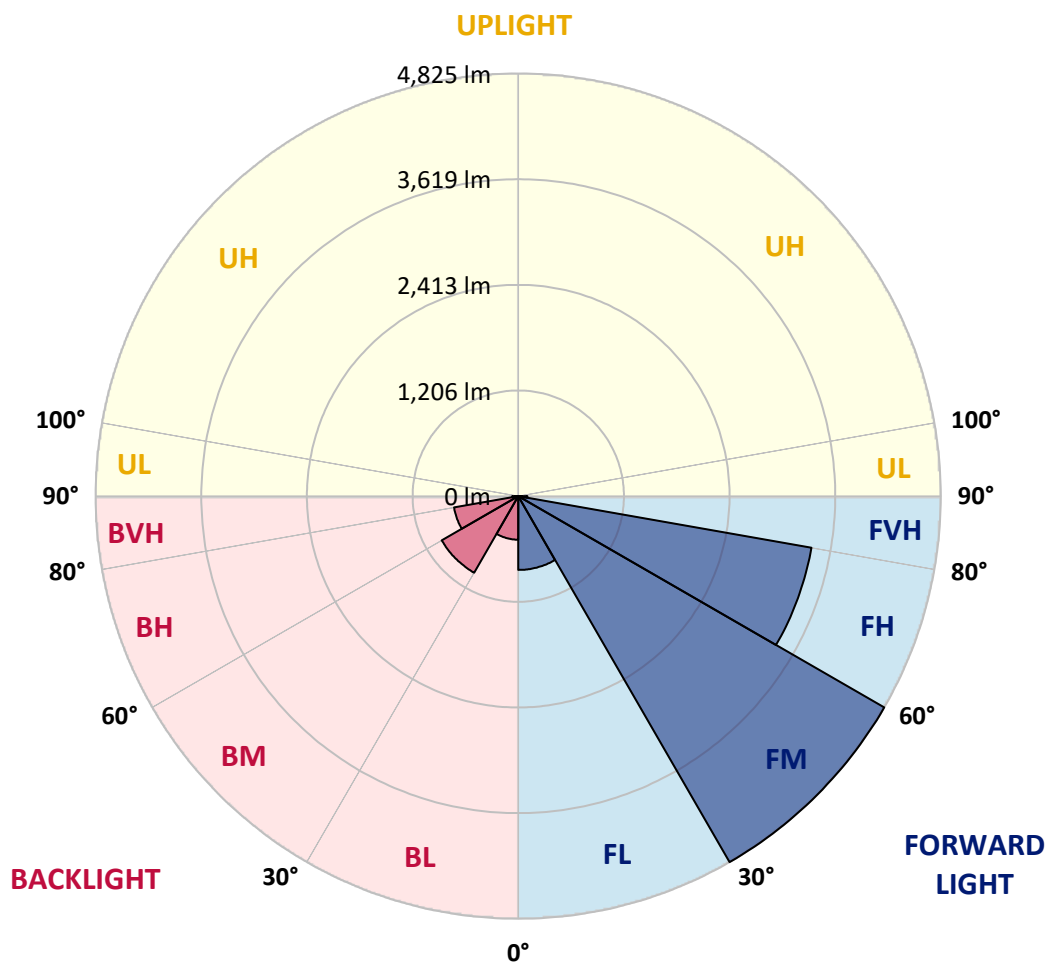
CATALOG NUMBER: IFLD-S-SA3A-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.5	7.3			
FM (30°-60°)	4825.3	42.0			
FH (60°-80°)	3399.2	29.6			G2/5000
FVH (80°-90°)	104.7	0.9			G2/225
BL (0°-30°)	497.2	4.3	B1/500		
BM (30°-60°)	1008.9	8.8	B2/2500		
BH (60°-80°)	744.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	69.9	0.6			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 II Short





REPORT NUMBER: P476479

CATALOG NUMBER: IFLD-S-SA3A-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2
2.5°	1543.4	1544.7	1544.7	1539.7	1540.9	1544.7	1530.8	1500.5	1500.5	1495.4	1486.6
5°	1638.3	1631.9	1623.1	1624.3	1619.3	1619.3	1604.1	1575.0	1549.8	1539.7	1513.1
7.5°	1650.9	1657.2	1655.9	1671.1	1678.7	1678.7	1686.3	1662.3	1624.3	1600.3	1573.8
10°	1676.2	1659.7	1658.5	1693.9	1705.2	1731.8	1762.1	1749.5	1717.9	1683.8	1648.4
12.5°	1691.3	1701.5	1701.5	1719.2	1745.7	1784.9	1838.0	1862.0	1812.7	1777.3	1722.9
15°	1714.1	1700.2	1740.6	1755.8	1806.4	1834.2	1910.0	1972.0	1939.1	1896.1	1810.2
17.5°	1724.2	1715.4	1738.1	1765.9	1851.9	1893.6	1985.9	2071.8	2044.0	2016.2	1927.7
20°	1776.0	1774.8	1784.9	1807.6	1869.6	1951.7	2066.8	2185.6	2195.7	2145.1	2025.1
22.5°	1902.4	1886.0	1886.0	1877.2	1903.7	1988.4	2143.9	2308.2	2353.7	2294.3	2135.0
25°	2018.7	2041.5	2027.6	1987.1	1977.0	2021.3	2199.5	2438.4	2499.1	2443.5	2284.2
27.5°	2167.9	2175.5	2199.5	2145.1	2075.6	2089.5	2260.2	2511.7	2636.9	2562.3	2368.9
30°	2382.8	2368.9	2363.8	2303.2	2212.1	2193.2	2329.7	2619.2	2817.6	2712.7	2468.8
32.5°	2528.2	2562.3	2561.0	2477.6	2367.6	2325.9	2415.7	2720.3	3011.0	2913.7	2653.3
35°	2816.4	2851.8	2824.0	2701.3	2572.4	2489.0	2539.5	2851.8	3232.3	3156.4	2810.1
37.5°	3184.2	3267.7	3208.2	2982.0	2799.9	2708.9	2711.5	2994.6	3458.5	3396.6	2978.2
40°	3438.3	3550.8	3468.6	3256.3	3062.9	2976.9	2942.8	3164.0	3729.0	3663.3	3241.1
42.5°	3753.1	3846.6	3803.6	3593.8	3367.5	3294.2	3225.9	3447.2	4142.4	4112.1	3578.6
45°	4096.9	4141.1	4127.2	3994.5	3742.9	3717.7	3567.2	3820.1	4629.1	4641.7	4000.8
47.5°	4416.7	4440.7	4467.3	4371.2	4214.5	4235.9	3960.4	4219.5	5101.8	5185.3	4471.1
50°	4498.9	4581.0	4643.0	4707.4	4741.6	4886.9	4394.0	4710.0	5645.4	5807.2	4994.4
52.5°	4415.4	4409.1	4597.5	4799.7	5141.0	5445.7	4984.3	5319.3	6125.7	6445.6	5473.5
55°	4036.2	4023.6	4327.0	4594.9	5261.1	5756.6	5827.4	6130.8	6706.0	7121.8	6122.0
57.5°	3372.6	3294.2	3625.4	4065.3	5000.7	5790.8	6674.4	7335.5	7598.4	8072.4	7111.7
60°	2266.5	2233.6	2550.9	3075.5	4060.2	5306.6	7181.3	8843.5	8856.2	9389.6	8647.6
62.5°	1395.5	1401.9	1605.4	1998.5	2842.9	4206.9	6962.6	10048.2	10050.7	10585.4	9911.7
65°	912.7	916.5	1080.8	1298.2	1776.0	2853.0	5757.9	10143.0	10881.2	11378.0	10490.6
66°	812.8	814.1	955.6	1132.6	1471.4	2334.8	5085.4	9896.5	11068.3	11482.9	10483.0
67.5°	685.1	701.6	815.3	951.9	1147.8	1677.4	4035.0	9183.6	10972.2	11336.3	10245.4
70°	536.0	544.8	634.6	773.6	860.8	970.8	2398.0	7485.9	10043.1	10633.5	9380.8
72.5°	429.8	437.4	505.6	628.2	699.0	639.6	1305.8	5431.8	7933.4	8562.9	7378.5
75°	362.8	364.1	396.9	494.3	575.2	480.4	695.2	3486.3	5090.5	5383.7	4520.4
77.5°	293.3	298.3	321.1	376.7	462.7	378.0	414.6	1953.0	2556.0	2577.5	2089.5
80°	238.9	241.4	255.3	274.3	352.7	279.4	280.6	953.1	1096.0	1070.7	849.5
82.5°	188.3	190.9	207.3	203.5	259.1	199.7	174.4	458.9	504.4	494.3	390.6
85°	106.2	106.2	163.1	163.1	164.3	126.4	106.2	216.2	266.7	249.0	183.3
87.5°	34.1	35.4	49.3	51.8	82.2	56.9	51.8	80.9	126.4	111.2	65.7
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: P476479
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2
2.5°	1481.5	1461.3	1452.4	1423.4	1415.8	1396.8	1388.0	1376.6	1372.8	1356.4	1371.5
5°	1492.9	1486.6	1451.2	1414.5	1386.7	1374.1	1355.1	1329.8	1327.3	1304.5	1302.0
7.5°	1540.9	1519.4	1457.5	1418.3	1362.7	1331.1	1289.4	1276.7	1260.3	1252.7	1269.1
10°	1615.5	1561.1	1468.9	1370.3	1302.0	1264.1	1233.7	1224.9	1226.2	1221.1	1213.5
12.5°	1668.6	1616.8	1449.9	1329.8	1241.3	1204.7	1202.1	1211.0	1224.9	1218.6	1227.4
15°	1744.4	1647.1	1436.0	1262.8	1192.0	1181.9	1180.7	1207.2	1205.9	1205.9	1204.7
17.5°	1815.2	1677.4	1385.4	1204.7	1140.2	1147.8	1156.6	1155.4	1168.0	1173.1	1181.9
20°	1905.0	1712.8	1314.6	1146.5	1101.0	1098.5	1097.2	1098.5	1111.1	1118.7	1112.4
22.5°	1983.3	1720.4	1255.2	1090.9	1054.2	1044.1	1027.7	1044.1	1037.8	1040.3	1047.9
25°	2051.6	1721.7	1170.5	1049.2	1007.5	984.7	972.1	970.8	959.4	958.2	958.2
27.5°	2108.5	1678.7	1096.0	991.0	951.9	930.4	929.1	915.2	886.1	867.2	869.7
30°	2152.7	1645.8	1044.1	940.5	902.6	898.8	887.4	855.8	817.9	793.8	793.8
32.5°	2231.1	1580.1	973.3	888.7	869.7	864.6	838.1	810.3	774.9	752.1	748.3
35°	2289.3	1519.4	926.6	844.4	835.6	825.4	802.7	772.4	762.2	757.2	761.0
37.5°	2355.0	1451.2	869.7	806.5	815.3	796.4	769.8	755.9	791.3	782.5	786.3
40°	2459.9	1403.1	814.1	783.7	792.6	771.1	737.0	731.9	776.1	744.5	737.0
42.5°	2652.0	1401.9	779.9	749.6	755.9	739.5	709.2	706.6	724.3	686.4	675.0
45°	2891.0	1446.1	754.7	724.3	719.3	716.7	706.6	695.2	680.1	630.8	618.1
47.5°	3176.6	1518.2	749.6	686.4	692.7	714.2	701.6	672.5	633.3	601.7	595.4
50°	3523.0	1667.3	737.0	658.6	670.0	704.1	694.0	653.5	618.1	597.9	594.1
52.5°	3906.0	1855.7	720.5	615.6	640.9	695.2	700.3	662.4	610.6	592.9	590.3
55°	4357.3	2133.8	701.6	568.8	606.8	686.4	700.3	637.1	600.4	600.4	597.9
57.5°	5248.5	2634.3	662.4	525.9	576.4	670.0	680.1	638.4	601.7	601.7	596.6
60°	6555.5	3415.6	587.8	493.0	547.3	647.2	664.9	619.4	587.8	595.4	594.1
62.5°	7578.2	3653.2	524.6	461.4	518.3	605.5	644.7	599.2	571.4	599.2	601.7
65°	7796.9	3413.0	460.1	427.3	477.8	565.0	615.6	570.1	547.3	601.7	604.2
66°	7718.5	3225.9	437.4	417.1	460.1	544.8	597.9	560.0	534.7	599.2	600.4
67.5°	7369.6	2945.3	412.1	395.7	436.1	515.7	577.7	546.1	514.5	591.6	580.2
70°	6611.2	2497.8	369.1	357.7	402.0	467.7	530.9	510.7	482.9	544.8	524.6
72.5°	5091.7	1996.0	323.6	324.9	362.8	418.4	484.1	470.2	446.2	477.8	465.2
75°	3100.8	1275.5	281.9	284.4	316.0	371.6	439.9	429.8	400.7	418.4	412.1
77.5°	1374.1	632.0	237.6	242.7	268.0	327.4	383.0	366.6	336.2	340.0	337.5
80°	533.4	299.6	193.4	199.7	216.2	261.7	317.3	302.1	275.6	270.5	268.0
82.5°	256.6	166.9	149.2	151.7	158.0	208.6	273.0	254.1	218.7	195.9	195.9
85°	128.9	103.7	104.9	96.1	104.9	141.6	184.6	154.2	127.7	113.8	116.3
87.5°	51.8	51.8	51.8	44.2	46.8	67.0	86.0	58.1	53.1	31.6	31.6
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)