

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: P476866

Luminaire Tested: **IFLD-S-SA2C-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476866
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

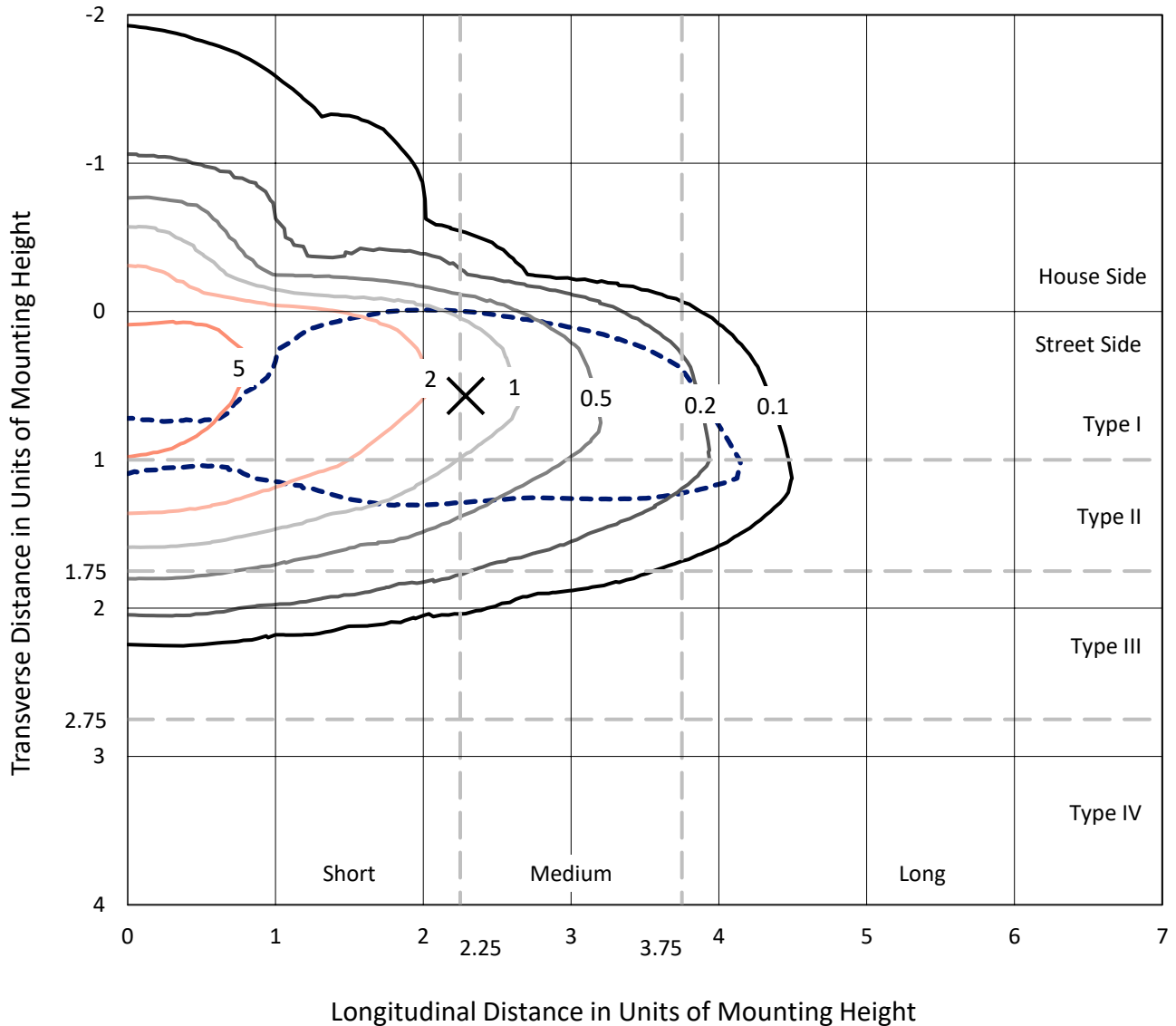
Lumens per Lamp: N/A
Luminaire Lumens: 11953.5 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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: P476866
 CATALOG NUMBER: IFLD-S-SA2C-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

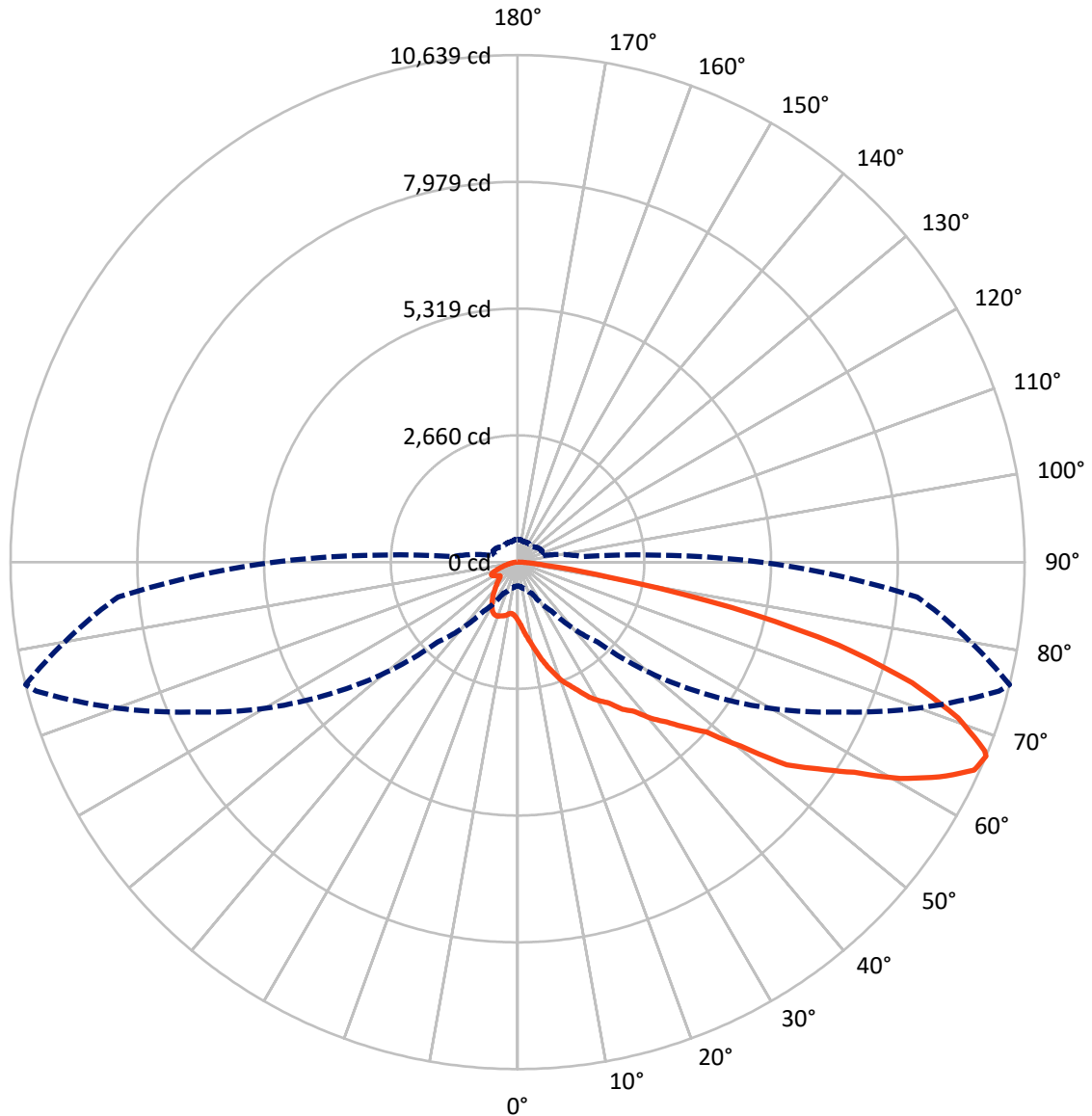
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P476866
CATALOG NUMBER: IFLD-S-SA2C-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476866
 CATALOG NUMBER: IFLD-S-SA2C-727-U-T2R

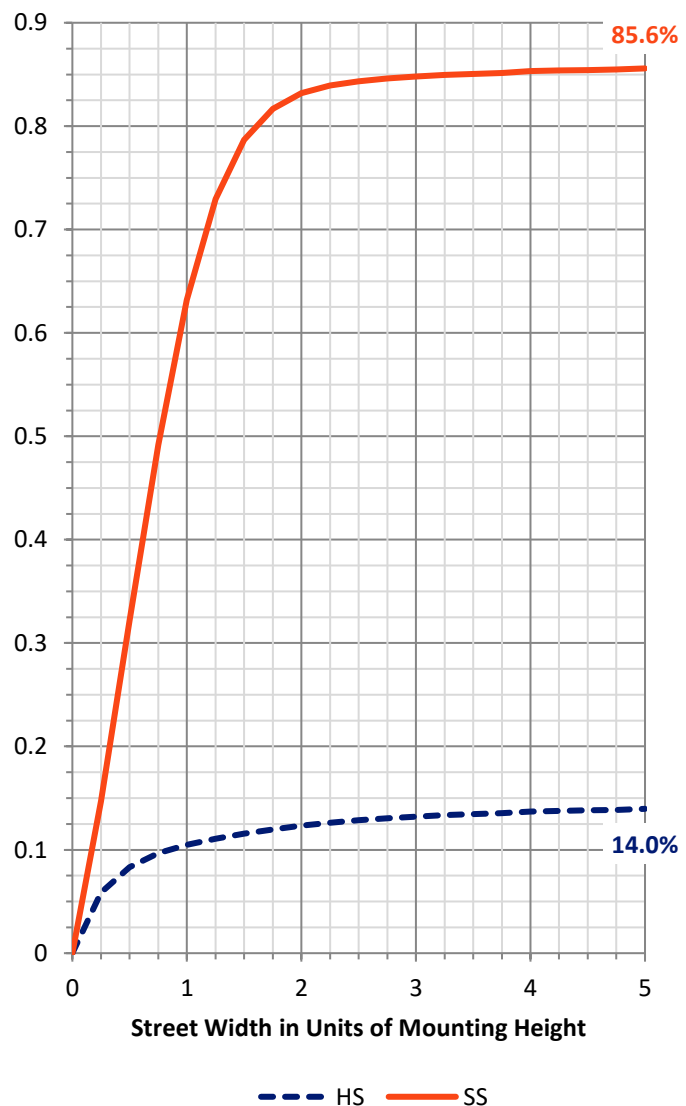
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1700.5	0.0	1700.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10252.9	0.0	10252.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	11953.5	0.0	11953.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.2
10°-20°	531.4	4.4
20°-30°	988.0	8.3
30°-40°	1566.2	13.1
40°-50°	2166.2	18.1
50°-60°	2664.6	22.3
60°-70°	2479.5	20.7
70°-80°	1244.2	10.4
80°-90°	171.6	1.4
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°	11953.5	100.0
0°-180°	11953.5	100.0

Coefficient of Utilization



REPORT NUMBER: P476866

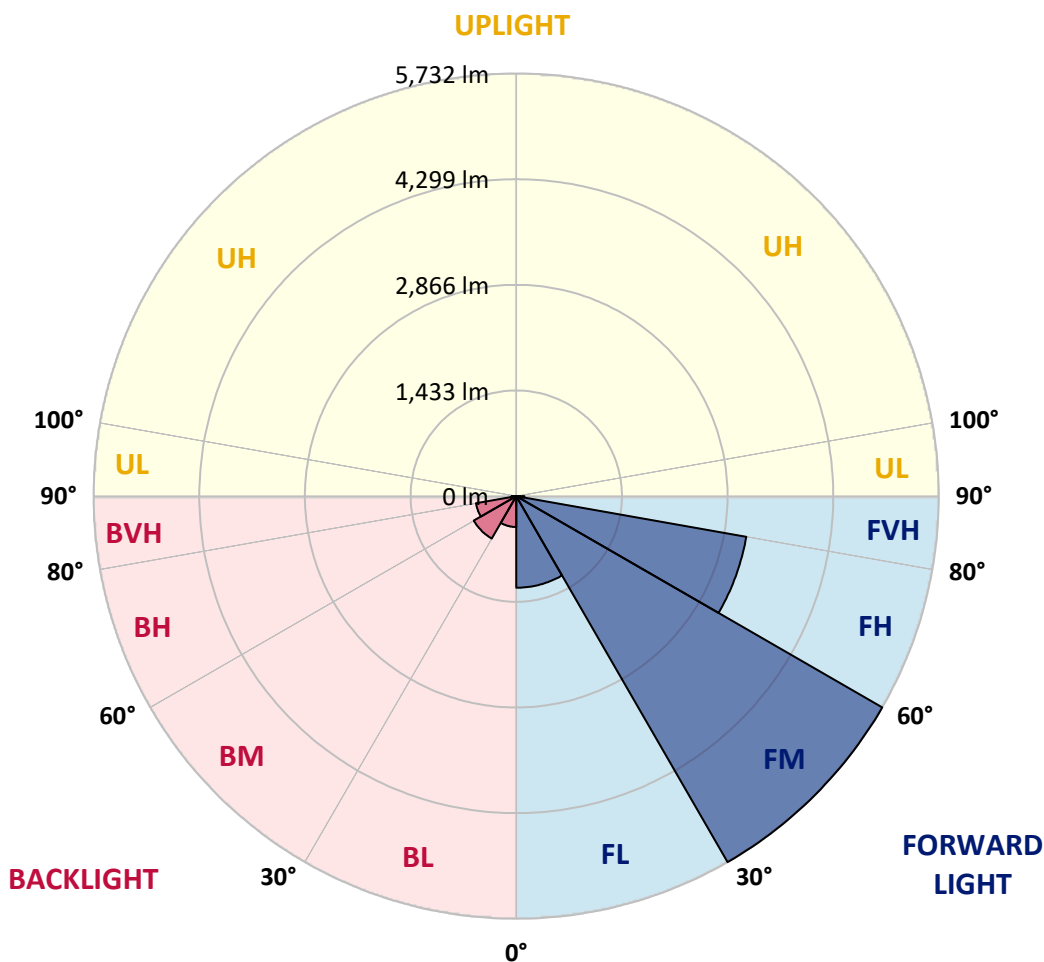
CATALOG NUMBER: IFLD-S-SA2C-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.4	10.4			
FM (30°-60°)	5732.5	48.0			
FH (60°-80°)	3168.8	26.5			G2/5000
FVH (80°-90°)	109.3	0.9			G2/225
BL (0°-30°)	418.8	3.5	B1/500		
BM (30°-60°)	664.5	5.6	B1/1000		
BH (60°-80°)	555.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	62.3	0.5			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 Medium





REPORT NUMBER: P476866

CATALOG NUMBER: IFLD-S-SA2C-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1697.3	1676.9	1656.4	1612.8	1597.9	1557.0	1482.1	1399.0	1330.9	1321.3	1273.7
5°	2106.0	2076.0	2069.2	2044.7	1967.0	1888.0	1765.4	1631.9	1465.7	1478.0	1314.5
7.5°	2412.5	2394.7	2358.0	2334.8	2288.5	2183.6	2056.9	1879.8	1668.7	1627.8	1405.8
10°	2644.0	2619.5	2618.1	2597.7	2573.2	2465.6	2368.9	2130.5	1859.4	1803.6	1517.5
12.5°	2761.2	2757.1	2829.3	2829.3	2819.8	2774.8	2608.6	2390.7	2040.6	2021.5	1646.9
15°	2887.9	2853.8	2916.5	2964.1	2988.7	3011.8	2874.2	2644.0	2272.1	2235.4	1785.8
17.5°	2887.9	2885.1	2947.8	3026.8	3154.9	3184.8	3109.9	2877.0	2464.2	2437.0	1938.4
20°	2838.8	2878.3	2921.9	3028.2	3167.1	3288.3	3310.1	3115.4	2676.7	2654.9	2111.4
22.5°	3067.7	3029.5	3074.5	3115.4	3223.0	3406.9	3466.8	3325.1	2900.1	2817.0	2268.1
25°	3451.8	3425.9	3393.2	3333.3	3378.3	3458.6	3549.9	3480.4	3090.8	2998.2	2419.3
27.5°	3826.4	3827.8	3756.9	3626.2	3529.5	3545.8	3653.4	3616.6	3251.6	3210.7	2522.8
30°	4359.0	4326.3	4247.3	4070.3	3880.9	3725.6	3707.9	3743.3	3455.9	3376.9	2671.3
32.5°	4758.2	4765.0	4653.3	4398.5	4139.7	4013.0	3857.7	3872.7	3585.3	3526.7	2789.8
35°	5081.0	5072.8	4993.8	4782.7	4476.2	4323.6	4113.8	4028.0	3886.4	3793.7	2971.0
37.5°	5429.7	5363.0	5234.9	4996.5	4800.4	4589.3	4384.9	4191.5	4086.6	3974.9	3126.2
40°	5570.0	5570.0	5398.4	5289.4	5056.5	4897.1	4765.0	4406.7	4330.4	4308.6	3325.1
42.5°	5470.6	5531.9	5461.1	5337.1	5241.7	5040.1	5004.7	4630.1	4631.5	4587.9	3563.5
45°	5461.1	5376.6	5318.0	5349.4	5304.4	5293.5	5383.4	4939.3	4947.5	4942.1	3883.6
47.5°	5187.3	5149.1	5236.3	5288.1	5324.8	5493.8	5752.6	5308.5	5367.1	5326.2	4252.8
50°	4914.8	4908.0	4962.5	5150.5	5309.9	5587.7	6104.0	5877.9	6070.0	6067.2	4921.6
52.5°	4168.3	4240.5	4454.4	4852.2	5245.8	5715.8	6369.6	6605.3	6971.7	7071.2	5476.0
55°	3454.5	3416.4	3732.4	4310.0	4966.6	5766.2	6666.6	7042.6	7582.0	7654.2	6045.4
57.5°	2687.6	2758.5	3007.7	3562.2	4389.0	5516.9	6884.6	7474.4	8271.3	8327.1	6706.1
60°	2005.2	2014.7	2288.5	2735.3	3620.7	4954.3	6955.4	7917.1	9061.4	9220.7	7398.1
62.5°	1261.4	1318.6	1527.0	1967.0	2725.8	4167.0	6638.0	8185.5	9889.6	9931.8	8095.6
65°	679.7	716.5	873.2	1149.7	1904.4	3152.1	5796.2	8024.7	10279.2	10529.8	8406.1
67°	502.7	509.5	581.7	734.2	1273.7	2373.0	4833.1	7443.1	10456.2	10638.8	8418.4
67.5°	471.3	480.9	538.1	659.3	1129.3	2185.0	4581.1	7236.0	10377.2	10573.4	8323.0
70°	403.2	405.9	419.6	453.6	633.4	1314.5	3119.4	5929.7	9618.5	9806.5	7654.2
72.5°	358.3	361.0	366.4	373.2	429.1	760.1	1897.5	4563.4	8359.8	8659.5	6603.9
75°	314.7	324.2	326.9	321.5	365.1	494.5	1009.4	3353.7	6819.2	6964.9	5135.5
77.5°	267.0	271.1	276.5	282.0	325.6	369.2	484.9	2264.0	4680.5	4592.0	2777.5
80°	224.8	226.1	230.2	234.3	282.0	282.0	275.2	1223.3	2044.7	1954.8	938.6
82.5°	160.7	170.3	179.8	190.7	234.3	189.3	179.8	544.9	647.0	615.7	317.4
85°	62.7	76.3	118.5	130.8	148.5	102.2	119.9	235.7	269.7	267.0	118.5
87.5°	10.9	12.3	32.7	50.4	54.5	35.4	57.2	84.5	100.8	109.0	43.6
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: P476866
 CATALOG NUMBER: IFLD-S-SA2C-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1234.2	1191.9	1141.5	1091.1	1058.4	1006.7	1002.6	971.2	967.2	956.3	961.7
5°	1243.7	1193.3	1091.1	1010.8	974.0	944.0	950.8	937.2	933.1	926.3	915.4
7.5°	1318.6	1219.2	1066.6	997.1	969.9	956.3	956.3	939.9	927.7	935.8	944.0
10°	1367.6	1231.4	1085.7	1016.2	994.4	964.4	975.3	954.9	961.7	945.4	945.4
12.5°	1446.7	1300.9	1125.2	1044.8	1009.4	982.1	993.0	969.9	964.4	965.8	961.7
15°	1552.9	1347.2	1142.9	1061.2	1036.6	1002.6	994.4	974.0	953.5	946.7	954.9
17.5°	1652.3	1404.4	1155.1	1070.7	1031.2	993.0	983.5	957.6	950.8	930.4	914.0
20°	1770.9	1472.5	1171.5	1078.9	1010.8	972.6	948.1	922.2	899.1	886.8	892.2
22.5°	1849.9	1508.0	1179.7	1062.5	980.8	945.4	893.6	875.9	843.2	829.6	818.7
25°	1979.3	1551.5	1159.2	1017.6	927.7	870.4	824.1	799.6	776.5	758.7	753.3
27.5°	2012.0	1584.2	1111.6	941.3	843.2	783.3	743.8	713.8	698.8	671.6	666.1
30°	2107.3	1551.5	1040.7	848.7	762.8	701.5	662.0	640.2	604.8	598.0	583.0
32.5°	2168.6	1561.1	950.8	758.7	670.2	615.7	589.8	568.0	558.5	525.8	517.6
35°	2270.8	1528.4	859.5	675.7	593.9	551.7	529.9	523.1	491.8	476.8	463.1
37.5°	2336.2	1509.3	768.3	581.7	510.8	493.1	499.9	471.3	433.2	404.6	395.0
40°	2450.6	1502.5	664.8	504.0	453.6	449.5	471.3	416.8	347.4	322.8	309.2
42.5°	2615.4	1456.2	584.4	434.5	408.7	426.4	430.5	347.4	307.9	287.4	277.9
45°	2773.4	1465.7	505.4	359.6	355.5	381.4	371.9	294.2	271.1	256.1	264.3
47.5°	3077.2	1513.4	427.7	299.7	320.1	344.6	288.8	262.9	241.1	230.2	231.6
50°	3547.2	1559.7	359.6	273.8	302.4	311.9	247.9	238.4	237.0	215.2	213.9
52.5°	3829.1	1542.0	347.4	306.5	324.2	311.9	269.7	262.9	252.0	242.5	231.6
55°	4277.3	1593.8	373.2	358.3	367.8	299.7	302.4	299.7	291.5	267.0	273.8
57.5°	4634.2	1627.8	407.3	400.5	395.0	311.9	316.0	317.4	311.9	301.0	310.6
60°	5124.6	1695.9	442.7	444.1	445.4	339.2	346.0	354.2	352.8	348.7	351.4
62.5°	5425.6	1664.6	482.2	504.0	497.2	395.0	393.7	399.1	399.1	405.9	410.0
65°	5380.7	1548.8	502.7	557.1	521.7	435.9	435.9	438.6	440.0	453.6	455.0
67°	5111.0	1341.8	491.8	565.3	521.7	452.3	452.3	455.0	445.4	480.9	470.0
67.5°	4985.7	1280.5	482.2	558.5	517.6	450.9	450.9	452.3	444.1	478.1	467.2
70°	4335.9	950.8	415.5	494.5	479.5	438.6	438.6	430.5	423.6	468.6	459.1
72.5°	3701.1	690.6	333.7	420.9	433.2	422.3	425.0	404.6	385.5	416.8	408.7
75°	2834.7	508.1	260.2	324.2	366.4	395.0	412.7	361.0	336.5	344.6	329.7
77.5°	1581.5	331.0	205.7	239.7	279.3	367.8	396.4	325.6	275.2	265.6	265.6
80°	536.7	193.4	151.2	178.4	192.1	325.6	370.5	264.3	216.6	207.1	200.2
82.5°	203.0	118.5	103.5	122.6	122.6	257.5	302.4	203.0	163.5	211.1	215.2
85°	92.6	70.8	68.1	70.8	70.8	158.0	213.9	132.1	147.1	126.7	111.7
87.5°	36.8	34.1	31.3	30.0	24.5	27.2	73.6	35.4	66.7	17.7	16.3
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)