

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: P483107

Luminaire Tested: **IFLD-S-SA2D-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483107
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

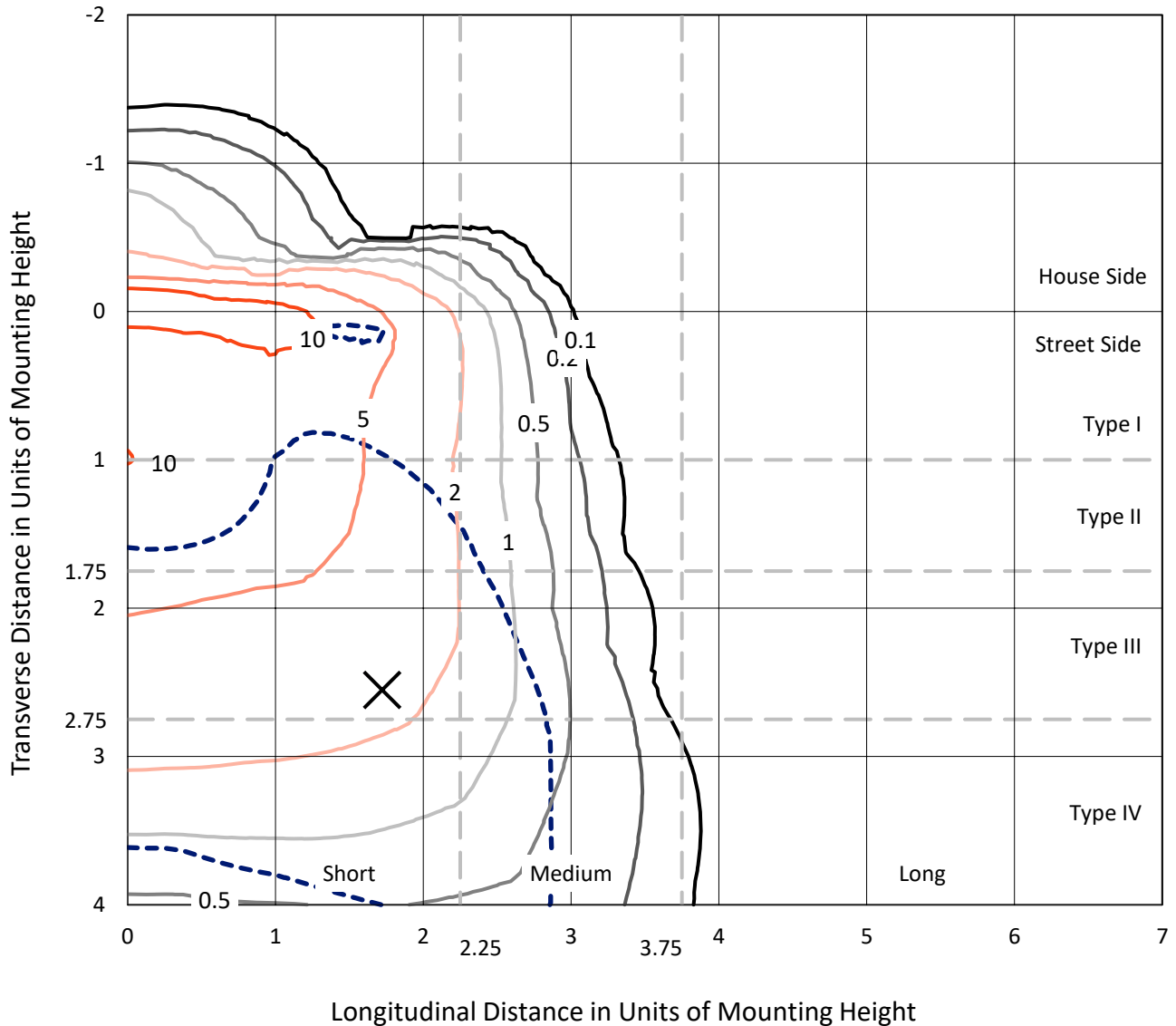
Lumens per Lamp: N/A
Luminaire Lumens: 9457.5 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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: P483107
 CATALOG NUMBER: IFLD-S-SA2D-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

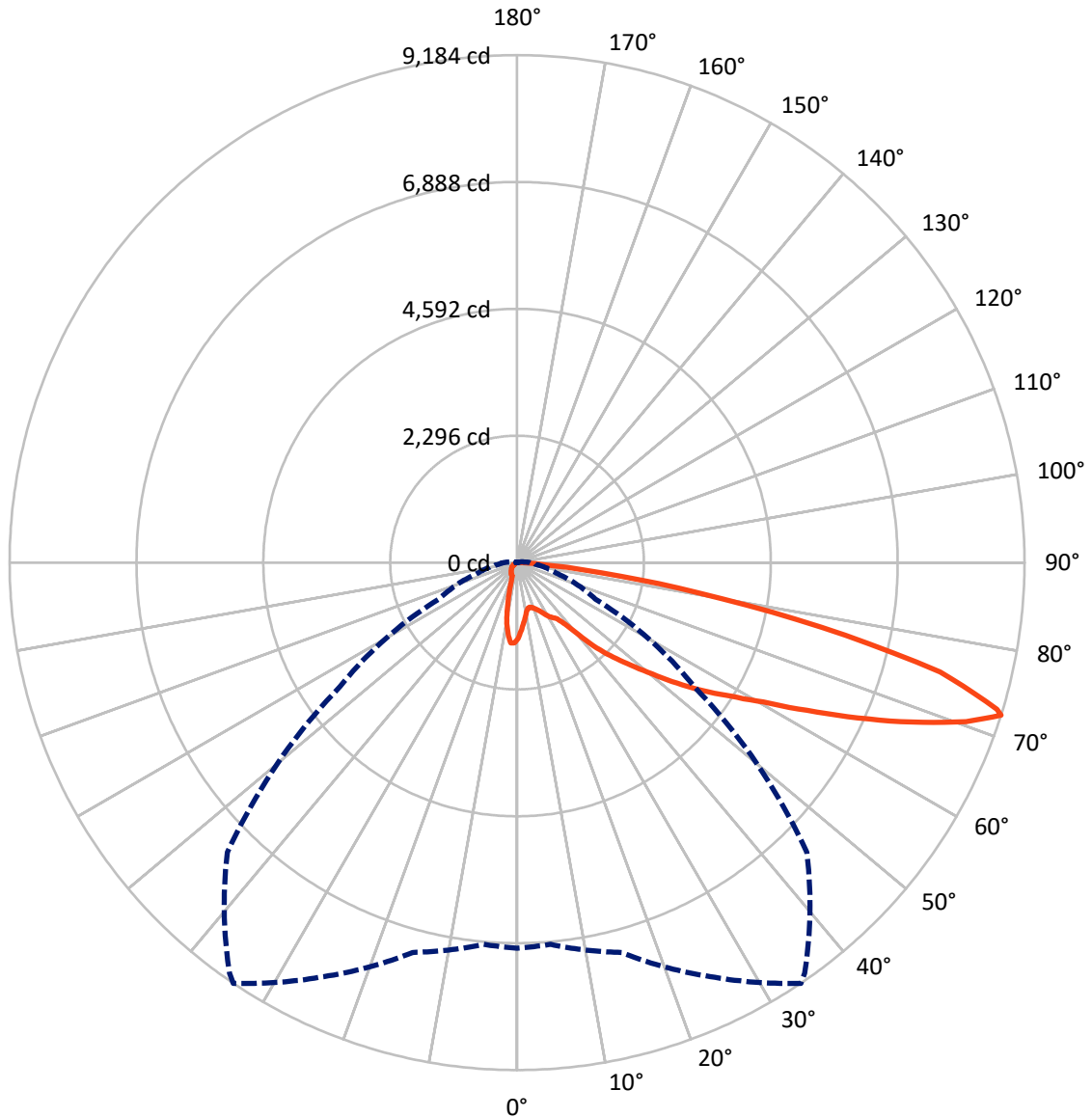
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P483107
CATALOG NUMBER: IFLD-S-SA2D-727-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P483107
 CATALOG NUMBER: IFLD-S-SA2D-727-U-T4FT-HSS

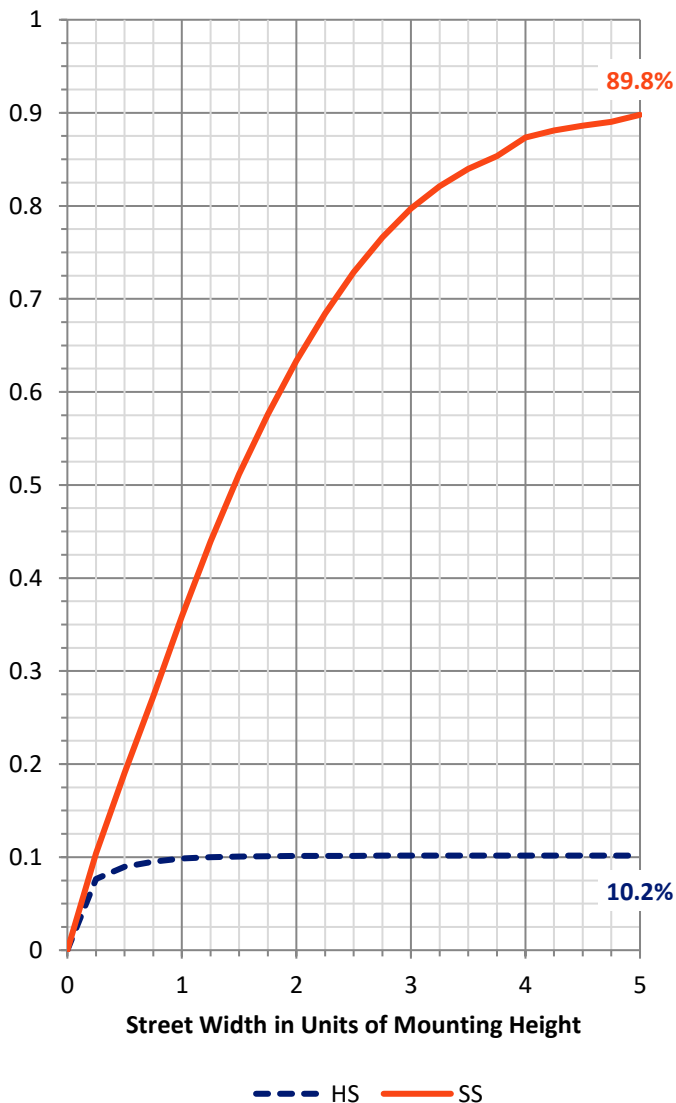
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	968.2	0.0	968.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	8489.3	0.0	8489.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	9457.5	0.0	9457.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.3
10°-20°	271.9	2.9
20°-30°	410.5	4.3
30°-40°	666.1	7.0
40°-50°	1252.5	13.2
50°-60°	2047.9	21.7
60°-70°	2722.4	28.8
70°-80°	1823.2	19.3
80°-90°	142.9	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°	9457.5	100.0
0°-180°	9457.5	100.0



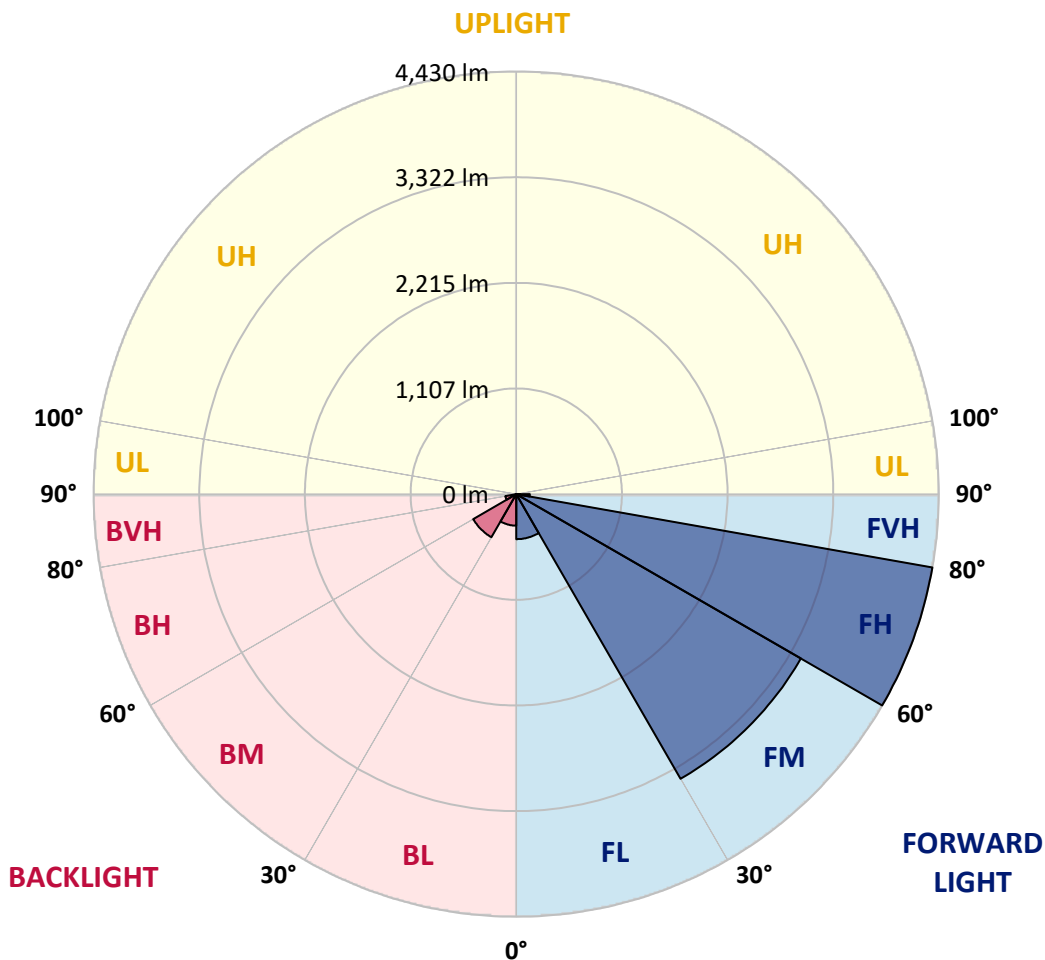
REPORT NUMBER: P483107
 CATALOG NUMBER: IFLD-S-SA2D-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.1	5.0			
FM (30°-60°)	3445.4	36.4			
FH (60°-80°)	4429.8	46.8			G2/5000
FVH (80°-90°)	142.0	1.5			G2/225
BL (0°-30°)	330.4	3.5	B1/500		
BM (30°-60°)	521.2	5.5	B1/1000		
BH (60°-80°)	115.8	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
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: P483107

CATALOG NUMBER: IFLD-S-SA2D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1223.7	1220.9	1229.1	1242.8	1256.5	1251.0	1277.0	1304.3	1323.5	1349.5	1380.9
5°	1069.2	1076.0	1084.2	1111.6	1129.3	1133.4	1181.3	1216.8	1275.6	1335.8	1391.8
7.5°	928.4	936.6	953.0	983.0	1020.0	1029.5	1077.4	1148.5	1225.0	1304.3	1395.9
10°	825.8	834.0	851.8	870.9	920.1	920.1	985.8	1084.2	1184.0	1277.0	1397.3
12.5°	803.9	808.0	806.7	821.7	853.2	860.0	924.2	1032.3	1148.5	1267.4	1419.2
15°	829.9	832.6	819.0	810.8	838.1	845.0	905.1	1000.8	1125.2	1272.9	1454.7
17.5°	881.9	872.3	845.0	832.6	855.9	860.0	916.0	999.4	1122.5	1287.9	1495.8
20°	911.9	922.9	875.0	851.8	884.6	890.1	950.2	1021.3	1136.2	1313.9	1553.2
22.5°	965.3	970.7	906.5	891.4	922.9	922.9	991.2	1065.1	1169.0	1356.3	1621.5
25°	1040.5	1033.6	958.4	943.4	973.5	985.8	1054.1	1134.8	1219.6	1395.9	1684.4
27.5°	1099.3	1103.4	1041.8	1002.2	1052.8	1061.0	1134.8	1210.0	1257.9	1428.8	1761.0
30°	1186.8	1178.6	1112.9	1067.8	1130.7	1132.1	1203.2	1281.1	1331.7	1487.6	1875.8
32.5°	1290.7	1274.3	1199.1	1134.8	1185.4	1197.7	1270.2	1383.6	1446.5	1598.3	2053.6
35°	1510.8	1471.1	1348.1	1248.3	1252.4	1257.9	1370.0	1532.7	1605.1	1739.1	2291.5
37.5°	1832.1	1815.7	1676.2	1486.2	1413.7	1397.3	1523.1	1729.6	1819.8	1925.1	2600.5
40°	2150.7	2127.4	1997.5	1854.0	1722.7	1689.9	1752.8	1990.7	2072.7	2183.5	2917.7
42.5°	2504.8	2463.8	2310.6	2194.4	2112.4	2076.8	2052.2	2318.8	2411.8	2487.0	3228.0
45°	2863.0	2796.0	2574.5	2485.6	2441.9	2422.7	2420.0	2731.7	2787.8	2802.8	3572.6
47.5°	3177.5	3105.0	2904.0	2804.2	2771.4	2765.9	2919.0	3207.5	3163.8	3124.1	3956.8
50°	3419.5	3373.0	3228.0	3192.5	3167.9	3158.3	3516.5	3697.0	3494.6	3424.9	4294.5
52.5°	3794.1	3690.2	3526.1	3538.4	3624.5	3625.9	4122.2	4161.9	3769.5	3631.4	4613.0
55°	4093.5	4025.1	3891.1	3873.4	4100.3	4124.9	4665.0	4514.6	3922.6	3828.3	4730.6
57.5°	4446.2	4414.8	4317.7	4320.5	4558.4	4610.3	5147.6	4812.7	4049.7	3955.4	4748.4
60°	4956.2	4866.0	4815.4	4838.6	5118.9	5169.5	5615.2	5027.3	4111.3	4038.8	4704.7
62.5°	5519.5	5414.2	5359.6	5478.5	5887.3	5895.5	5970.7	5217.4	4073.0	4060.7	4423.0
65°	6197.7	6093.8	6050.0	6289.3	6774.6	6744.6	6469.7	5298.0	3951.3	3840.6	3683.3
67.5°	6873.1	6810.2	6720.0	7101.4	7705.7	7705.7	6987.9	5268.0	3632.7	3083.1	2409.1
70°	7193.0	7236.8	7380.3	7979.2	8620.4	8554.8	7499.3	4922.0	2704.4	1655.7	947.5
72°	6979.7	6934.6	7305.1	8266.3	9183.7	9075.7	7413.1	3913.0	1562.7	726.0	329.5
72.5°	6613.3	6655.7	7165.7	8226.6	9078.4	9167.3	7202.6	3609.5	1285.2	578.3	248.8
75°	4055.2	4127.7	5348.6	6985.2	7910.8	7811.0	5571.5	1720.0	493.6	246.1	88.9
77.5°	1480.7	1540.9	2595.0	4395.7	5626.2	5563.3	3223.9	611.2	268.0	183.2	45.1
80°	385.6	417.0	881.9	2027.6	3308.7	3312.8	1349.5	244.7	181.8	150.4	27.3
82.5°	76.6	84.8	270.7	788.9	1546.3	1525.8	426.6	131.3	136.7	123.1	19.1
85°	9.6	12.3	57.4	268.0	500.4	448.5	105.3	65.6	101.2	95.7	12.3
87.5°	1.4	1.4	13.7	61.5	105.3	102.5	21.9	20.5	45.1	58.8	6.8
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: P483107

CATALOG NUMBER: IFLD-S-SA2D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1398.7	1404.1	1423.3	1439.7	1458.8	1464.3	1456.1	1469.8	1450.6	1461.6	1464.3
5°	1401.4	1432.9	1468.4	1491.7	1486.2	1472.5	1461.6	1424.7	1398.7	1389.1	1409.6
7.5°	1420.6	1456.1	1494.4	1494.4	1464.3	1393.2	1324.8	1259.2	1204.5	1177.2	1200.4
10°	1445.2	1482.1	1521.7	1469.8	1357.7	1227.8	1130.7	1007.7	924.2	880.5	884.6
12.5°	1478.0	1529.9	1543.6	1423.3	1237.3	1044.6	868.2	697.3	618.0	555.1	556.5
15°	1520.4	1571.0	1529.9	1322.1	1084.2	799.8	587.9	425.2	362.3	329.5	329.5
17.5°	1576.4	1614.7	1525.8	1229.1	877.8	546.9	360.9	287.1	273.4	268.0	268.0
20°	1642.0	1670.8	1486.2	1084.2	652.2	351.4	265.2	257.0	258.4	255.7	255.7
22.5°	1715.9	1725.4	1441.1	916.0	441.6	259.8	247.5	248.8	250.2	247.5	248.8
25°	1793.8	1767.8	1375.4	719.2	294.0	236.5	239.3	242.0	243.4	244.7	244.7
27.5°	1881.3	1829.4	1283.8	526.4	229.7	222.9	231.1	239.3	240.6	240.6	239.3
30°	2009.8	1923.7	1195.0	356.8	202.4	207.8	221.5	231.1	237.9	237.9	236.5
32.5°	2172.5	2022.1	1070.5	243.4	187.3	190.0	201.0	220.1	235.2	236.5	232.4
35°	2398.1	2141.1	940.7	194.1	176.4	177.7	184.6	199.6	225.6	233.8	232.4
37.5°	2636.0	2276.4	779.3	175.0	168.2	166.8	170.9	183.2	206.5	227.0	228.3
40°	2889.0	2418.6	609.8	165.4	161.3	158.6	160.0	165.4	183.2	209.2	214.7
42.5°	3126.9	2547.2	458.0	155.9	154.5	151.8	151.8	153.1	162.7	180.5	183.2
45°	3383.9	2652.4	348.6	149.0	144.9	146.3	140.8	138.1	144.9	146.3	144.9
47.5°	3624.5	2757.7	278.9	140.8	136.7	136.7	129.9	124.4	124.4	112.1	110.7
50°	3850.1	2815.1	222.9	129.9	128.5	127.2	117.6	108.0	99.8	84.8	82.0
52.5°	4037.4	2812.4	172.3	116.2	120.3	116.2	101.2	87.5	75.2	61.5	58.8
55°	4093.5	2681.1	129.9	95.7	102.5	97.1	80.7	68.4	54.7	43.8	42.4
57.5°	4045.6	2481.5	98.4	73.8	79.3	73.8	61.5	50.6	38.3	30.1	27.3
60°	3885.7	2247.7	76.6	57.4	60.2	56.1	46.5	38.3	27.3	19.1	16.4
62.5°	3582.2	1955.1	58.8	45.1	43.8	43.8	35.5	28.7	19.1	10.9	9.6
65°	2939.6	1524.5	45.1	31.4	31.4	31.4	27.3	20.5	12.3	5.5	2.7
67.5°	1845.8	887.3	36.9	24.6	23.2	23.2	19.1	13.7	6.8	1.4	0.0
70°	694.6	325.4	28.7	19.1	17.8	17.8	13.7	8.2	4.1	0.0	0.0
72°	239.3	124.4	23.2	13.7	13.7	12.3	9.6	6.8	2.7	0.0	0.0
72.5°	196.9	99.8	21.9	13.7	12.3	12.3	9.6	6.8	2.7	0.0	0.0
75°	71.1	41.0	15.0	9.6	8.2	8.2	6.8	4.1	1.4	0.0	0.0
77.5°	35.5	26.0	12.3	8.2	6.8	4.1	4.1	2.7	1.4	0.0	0.0
80°	21.9	16.4	6.8	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0
82.5°	15.0	9.6	4.1	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
85°	9.6	4.1	2.7	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)