

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: P483343

Luminaire Tested: **IFLD-S-SA3A-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483343
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

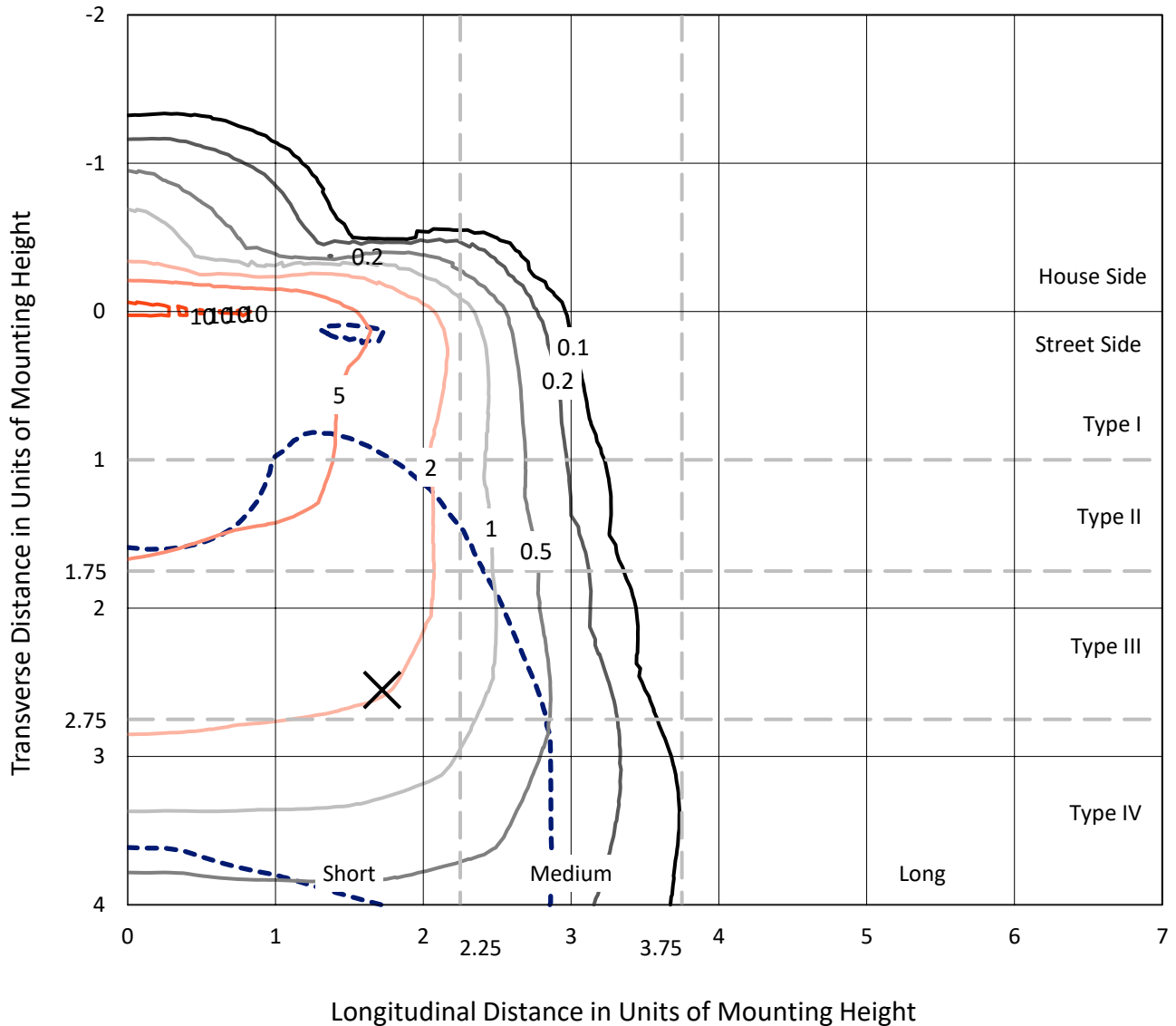
Lumens per Lamp: N/A
Luminaire Lumens: 7313.2 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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: P483343
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

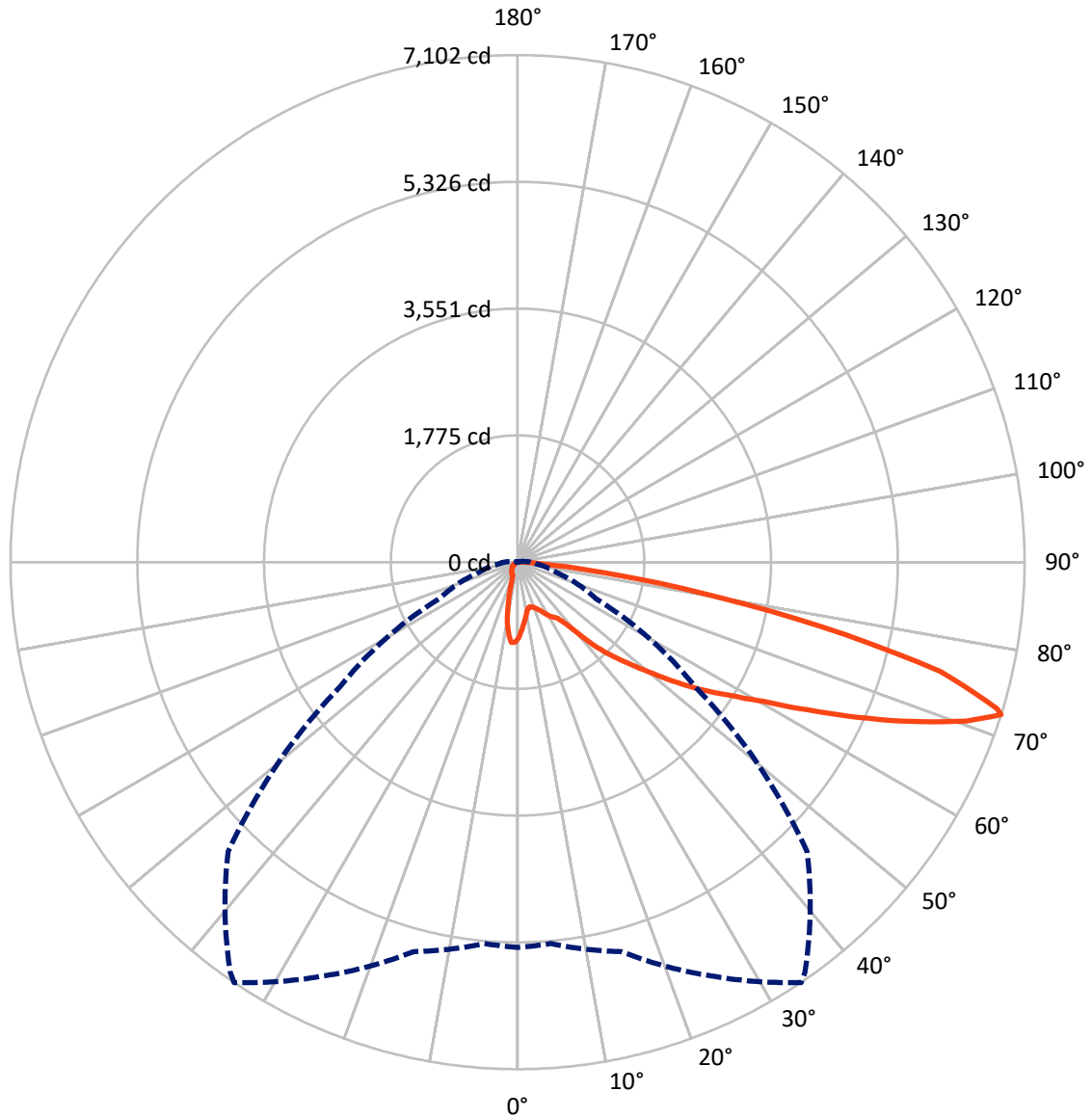
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P483343
CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483343
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT-HSS

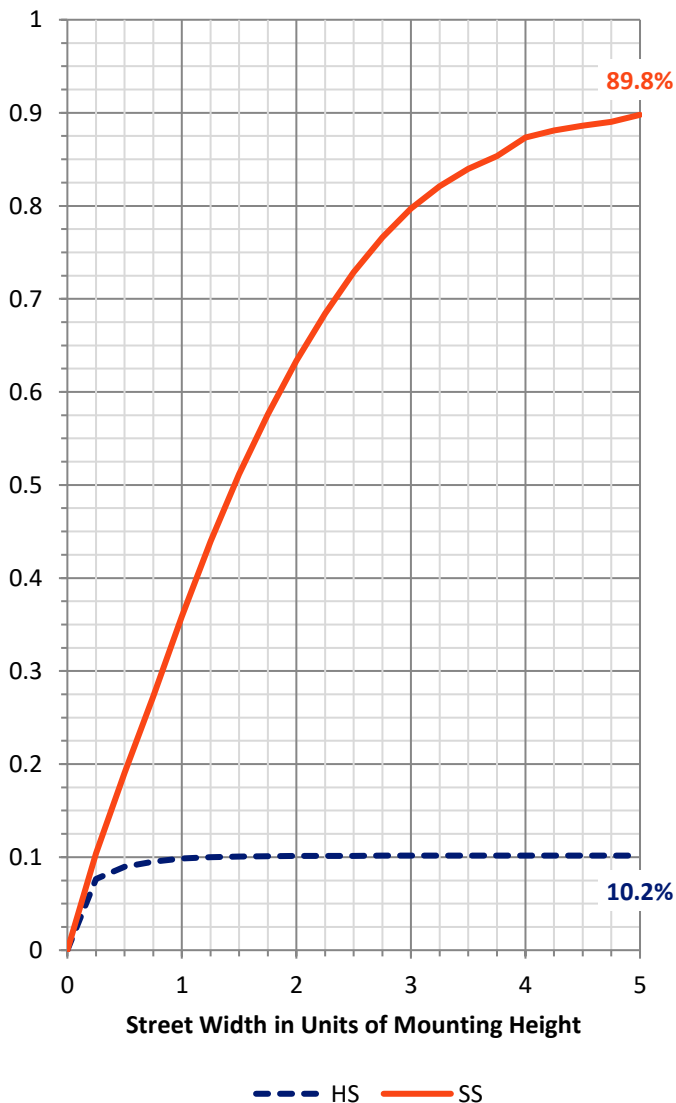
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.7	0.0	748.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	6564.5	0.0	6564.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	7313.2	0.0	7313.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	1.3
10°-20°	210.3	2.9
20°-30°	317.4	4.3
30°-40°	515.1	7.0
40°-50°	968.6	13.2
50°-60°	1583.6	21.7
60°-70°	2105.2	28.8
70°-80°	1409.8	19.3
80°-90°	110.5	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°	7313.2	100.0
0°-180°	7313.2	100.0



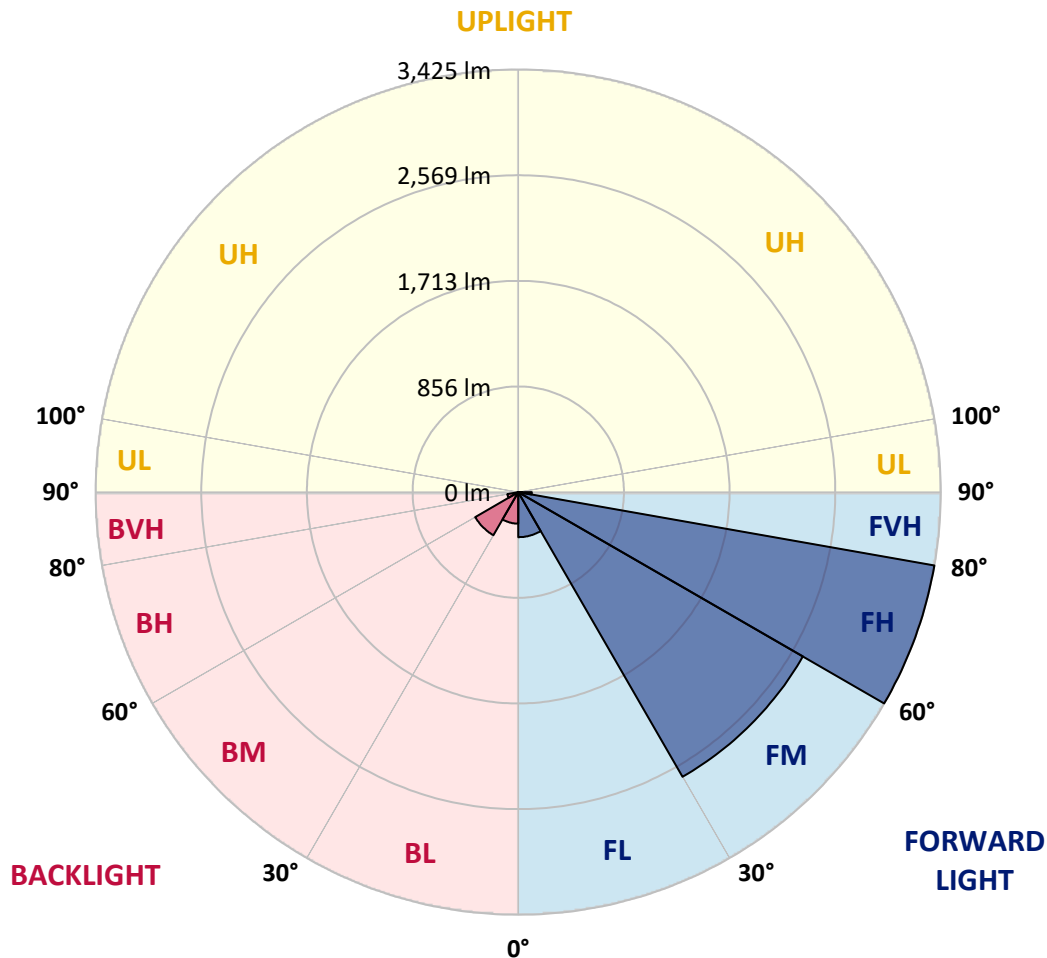
REPORT NUMBER: P483343
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.1	5.0			
FM (30°-60°)	2664.2	36.4			
FH (60°-80°)	3425.5	46.8			G2/5000
FVH (80°-90°)	109.8	1.5			G2/225
BL (0°-30°)	255.5	3.5	B1/500		
BM (30°-60°)	403.0	5.5	B1/1000		
BH (60°-80°)	89.5	1.2	B0/110		G0/110
BVH (80°-90°)	0.7	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: P483343

CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
2.5°	946.2	944.1	950.5	961.0	971.6	967.4	987.5	1008.6	1023.4	1043.5	1067.8
5°	826.8	832.1	838.4	859.5	873.3	876.5	913.5	940.9	986.4	1032.9	1076.3
7.5°	717.9	724.2	736.9	760.2	788.7	796.1	833.1	888.1	947.3	1008.6	1079.4
10°	638.6	644.9	658.7	673.5	711.5	711.5	762.3	838.4	915.6	987.5	1080.5
12.5°	621.7	624.8	623.8	635.4	659.7	665.0	714.7	798.2	888.1	980.1	1097.4
15°	641.7	643.9	633.3	626.9	648.1	653.4	699.9	773.9	870.1	984.3	1124.9
17.5°	681.9	674.5	653.4	643.9	661.8	665.0	708.4	772.8	868.0	995.9	1156.6
20°	705.2	713.6	676.6	658.7	684.0	688.3	734.8	789.8	878.6	1016.0	1201.0
22.5°	746.4	750.6	701.0	689.3	713.6	713.6	766.5	823.6	903.9	1048.8	1253.9
25°	804.6	799.3	741.1	729.5	752.8	762.3	815.1	877.5	943.1	1079.4	1302.5
27.5°	850.0	853.2	805.6	775.0	814.1	820.4	877.5	935.7	972.7	1104.8	1361.7
30°	917.7	911.3	860.6	825.7	874.3	875.4	930.4	990.6	1029.8	1150.3	1450.5
32.5°	998.0	985.4	927.2	877.5	916.6	926.1	982.2	1069.9	1118.6	1235.9	1588.0
35°	1168.3	1137.6	1042.4	965.3	968.4	972.7	1059.4	1185.2	1241.2	1344.8	1771.9
37.5°	1416.7	1404.0	1296.2	1149.2	1093.2	1080.5	1177.8	1337.4	1407.2	1488.6	2010.9
40°	1663.0	1645.1	1544.6	1433.6	1332.1	1306.8	1355.4	1539.3	1602.8	1688.4	2256.2
42.5°	1936.9	1905.2	1786.7	1696.9	1633.4	1606.0	1586.9	1793.1	1865.0	1923.1	2496.2
45°	2213.9	2162.1	1990.8	1922.1	1888.2	1873.4	1871.3	2112.4	2155.7	2167.4	2762.6
47.5°	2457.0	2401.0	2245.6	2168.4	2143.0	2138.8	2257.2	2480.3	2446.5	2415.8	3059.7
50°	2644.2	2608.2	2496.2	2468.7	2449.6	2442.2	2719.2	2858.8	2702.3	2648.4	3320.8
52.5°	2933.9	2853.5	2726.6	2736.1	2802.8	2803.8	3187.6	3218.3	2914.8	2808.0	3567.1
55°	3165.4	3112.5	3008.9	2995.2	3170.7	3189.7	3607.3	3491.0	3033.2	2960.3	3658.1
57.5°	3438.2	3413.8	3338.8	3340.9	3524.9	3565.0	3980.5	3721.5	3131.6	3058.6	3671.8
60°	3832.5	3762.7	3723.6	3741.6	3958.3	3997.4	4342.1	3887.5	3179.1	3123.1	3638.0
62.5°	4268.1	4186.7	4144.4	4236.4	4552.5	4558.8	4617.0	4034.4	3149.5	3140.0	3420.2
65°	4792.5	4712.1	4678.3	4863.3	5238.6	5215.4	5002.9	4096.8	3055.4	2969.8	2848.2
67.5°	5314.8	5266.1	5196.4	5491.3	5958.6	5958.6	5403.6	4073.6	2809.1	2384.1	1862.9
70°	5562.2	5596.0	5707.0	6170.1	6665.9	6615.2	5799.0	3806.1	2091.2	1280.3	732.7
72°	5397.2	5362.3	5648.9	6392.1	7101.5	7018.0	5732.4	3025.8	1208.4	561.4	254.8
72.5°	5113.9	5146.7	5541.0	6361.4	7020.1	7088.8	5569.6	2791.1	993.8	447.2	192.4
75°	3135.8	3191.8	4135.9	5401.5	6117.2	6040.0	4308.3	1330.0	381.7	190.3	68.7
77.5°	1145.0	1191.5	2006.6	3399.0	4350.6	4301.9	2493.0	472.6	207.2	141.7	34.9
80°	298.1	322.5	681.9	1567.9	2558.5	2561.7	1043.5	189.2	140.6	116.3	21.1
82.5°	59.2	65.5	209.3	610.0	1195.7	1179.9	329.9	101.5	105.7	95.2	14.8
85°	7.4	9.5	44.4	207.2	387.0	346.8	81.4	50.7	78.2	74.0	9.5
87.5°	1.1	1.1	10.6	47.6	81.4	79.3	16.9	15.9	34.9	45.5	5.3
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: P483343

CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
2.5°	1081.6	1085.8	1100.6	1113.3	1128.1	1132.3	1126.0	1136.5	1121.7	1130.2	1132.3
5°	1083.7	1108.0	1135.5	1153.5	1149.2	1138.7	1130.2	1101.6	1081.6	1074.2	1090.0
7.5°	1098.5	1126.0	1155.6	1155.6	1132.3	1077.3	1024.5	973.7	931.4	910.3	928.3
10°	1117.5	1146.1	1176.7	1136.5	1049.8	949.4	874.3	779.2	714.7	680.9	684.0
12.5°	1142.9	1183.1	1193.6	1100.6	956.8	807.7	671.4	539.2	477.9	429.2	430.3
15°	1175.7	1214.8	1183.1	1022.4	838.4	618.5	454.6	328.8	280.2	254.8	254.8
17.5°	1219.0	1248.6	1179.9	950.5	678.8	422.9	279.1	222.0	211.4	207.2	207.2
20°	1269.8	1292.0	1149.2	838.4	504.3	271.7	205.1	198.8	199.8	197.7	197.7
22.5°	1326.8	1334.2	1114.3	708.4	341.5	200.9	191.4	192.4	193.5	191.4	192.4
25°	1387.1	1367.0	1063.6	556.1	227.3	182.9	185.0	187.1	188.2	189.2	189.2
27.5°	1454.8	1414.6	992.8	407.0	177.6	172.3	178.7	185.0	186.1	186.1	185.0
30°	1554.1	1487.5	924.0	275.9	156.5	160.7	171.3	178.7	184.0	184.0	182.9
32.5°	1680.0	1563.7	827.8	188.2	144.8	147.0	155.4	170.2	181.8	182.9	179.7
35°	1854.4	1655.6	727.4	150.1	136.4	137.4	142.7	154.4	174.4	180.8	179.7
37.5°	2038.4	1760.3	602.6	135.3	130.0	129.0	132.2	141.7	159.6	175.5	176.6
40°	2234.0	1870.3	471.5	127.9	124.8	122.6	123.7	127.9	141.7	161.8	166.0
42.5°	2417.9	1969.6	354.2	120.5	119.5	117.4	117.4	118.4	125.8	139.6	141.7
45°	2616.7	2051.1	269.6	115.2	112.1	113.1	108.9	106.8	112.1	113.1	112.1
47.5°	2802.8	2132.5	215.7	108.9	105.7	105.7	100.4	96.2	96.2	86.7	85.6
50°	2977.2	2176.9	172.3	100.4	99.4	98.3	90.9	83.5	77.2	65.5	63.4
52.5°	3122.0	2174.8	133.2	89.9	93.0	89.9	78.2	67.7	58.1	47.6	45.5
55°	3165.4	2073.3	100.4	74.0	79.3	75.1	62.4	52.9	42.3	33.8	32.8
57.5°	3128.4	1918.9	76.1	57.1	61.3	57.1	47.6	39.1	29.6	23.3	21.1
60°	3004.7	1738.1	59.2	44.4	46.5	43.3	35.9	29.6	21.1	14.8	12.7
62.5°	2770.0	1511.9	45.5	34.9	33.8	33.8	27.5	22.2	14.8	8.5	7.4
65°	2273.1	1178.8	34.9	24.3	24.3	24.3	21.1	15.9	9.5	4.2	2.1
67.5°	1427.3	686.2	28.5	19.0	18.0	18.0	14.8	10.6	5.3	1.1	0.0
70°	537.1	251.6	22.2	14.8	13.7	13.7	10.6	6.3	3.2	0.0	0.0
72°	185.0	96.2	18.0	10.6	10.6	9.5	7.4	5.3	2.1	0.0	0.0
72.5°	152.2	77.2	16.9	10.6	9.5	9.5	7.4	5.3	2.1	0.0	0.0
75°	55.0	31.7	11.6	7.4	6.3	6.3	5.3	3.2	1.1	0.0	0.0
77.5°	27.5	20.1	9.5	6.3	5.3	3.2	3.2	2.1	1.1	0.0	0.0
80°	16.9	12.7	5.3	4.2	3.2	2.1	1.1	1.1	0.0	0.0	0.0
82.5°	11.6	7.4	3.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	7.4	3.2	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	2.1	1.1	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)