

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: P483344

Luminaire Tested: **IFLD-S-SA3B-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483344
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-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

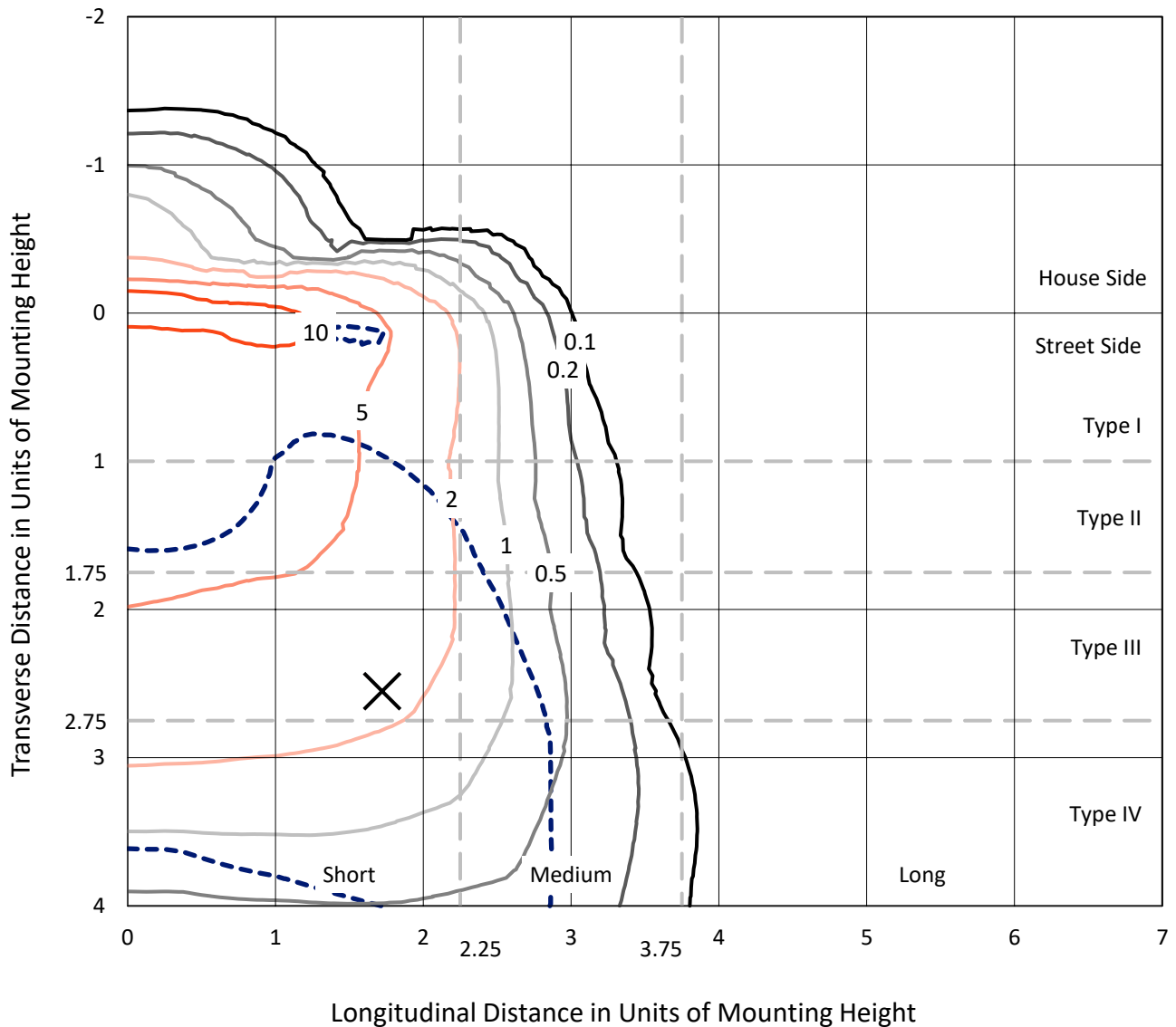
Lumens per Lamp: N/A
Luminaire Lumens: 9044.6 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

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Iso-Footcandle Lines of Horizontal Illumination

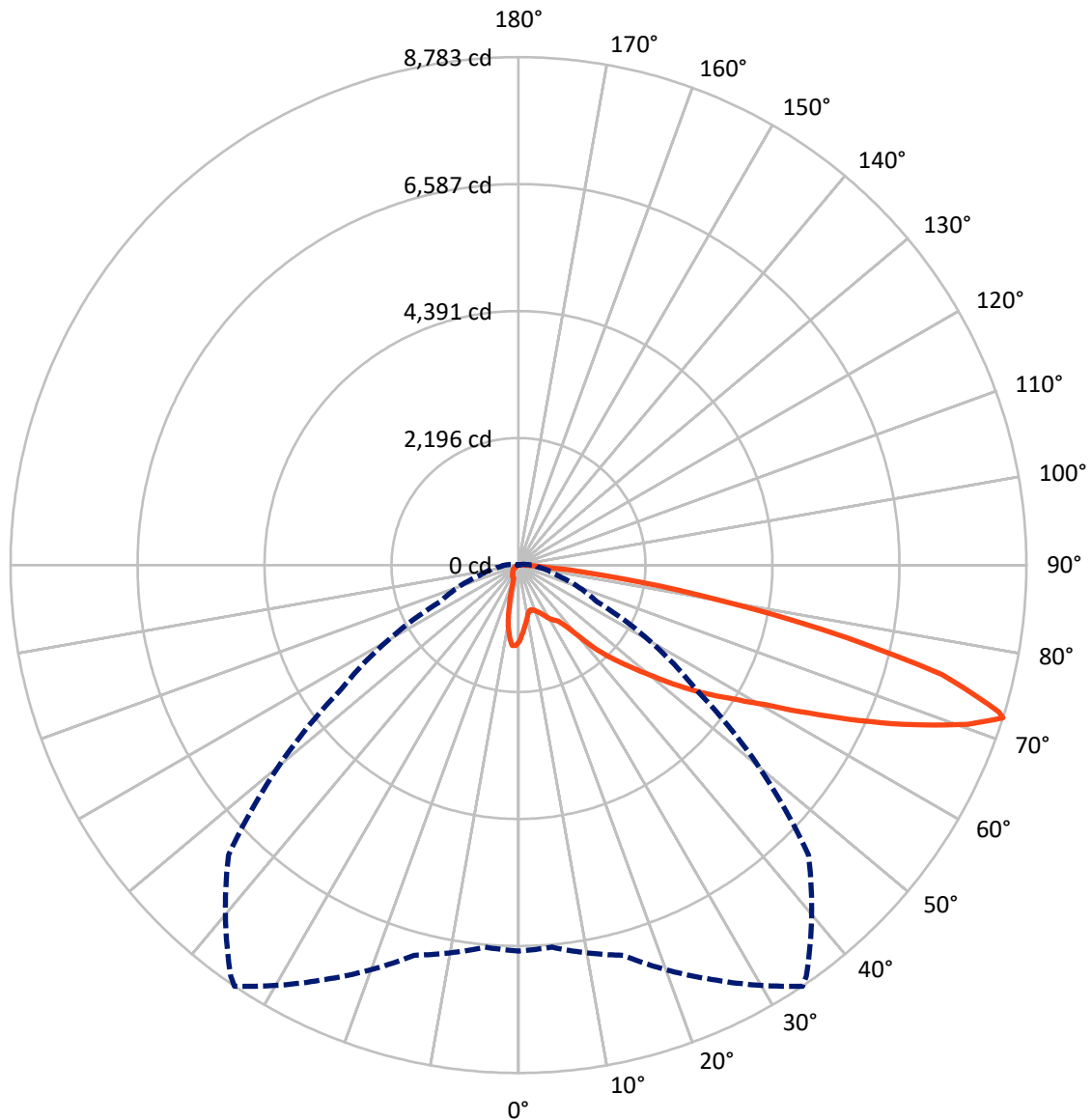
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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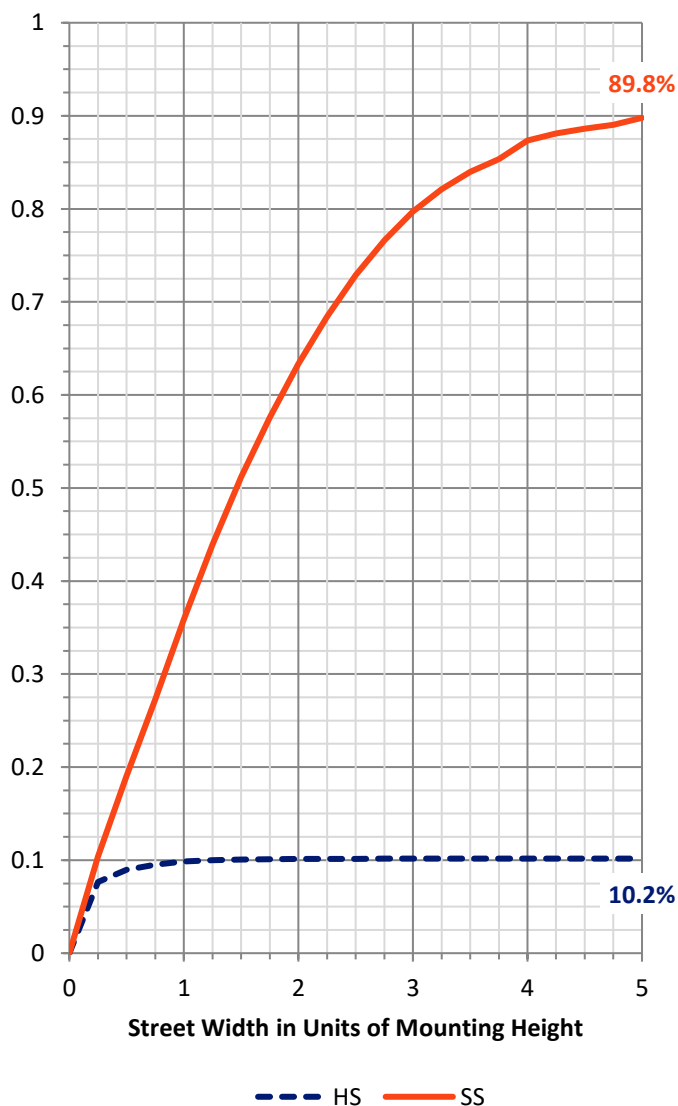
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	925.9	0.0	925.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	8118.7	0.0	8118.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	9044.6	0.0	9044.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.3
10°-20°	260.1	2.9
20°-30°	392.5	4.3
30°-40°	637.0	7.0
40°-50°	1197.9	13.2
50°-60°	1958.5	21.7
60°-70°	2603.6	28.8
70°-80°	1743.6	19.3
80°-90°	136.6	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°	9044.6	100.0
0°-180°	9044.6	100.0

Coefficient of Utilization



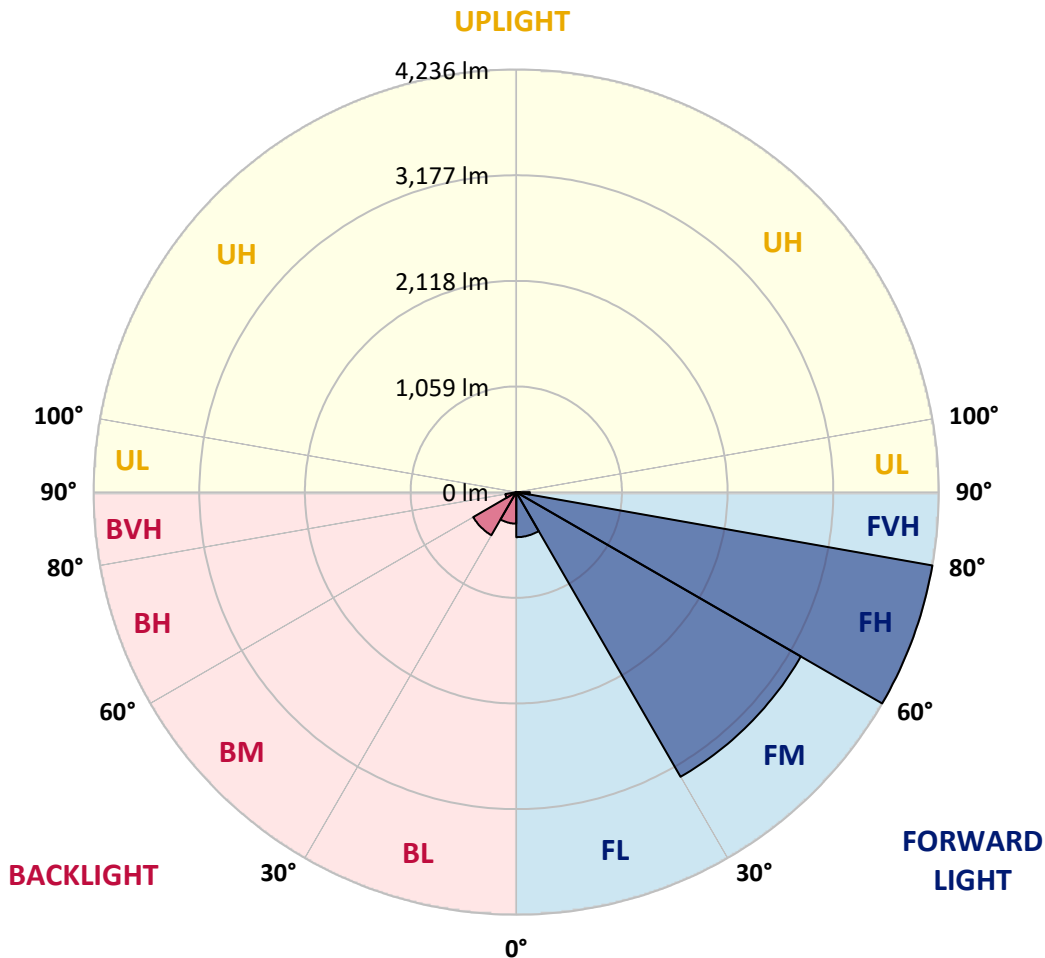
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.5	5.0			
FM	(30°-60°)	3294.9	36.4			
FH	(60°-80°)	4236.4	46.8			G2/5000
FVH	(80°-90°)	135.8	1.5			G2/225
BL	(0°-30°)	315.9	3.5	B1/500		
BM	(30°-60°)	498.4	5.5	B1/1000		
BH	(60°-80°)	110.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
2.5°	1170.3	1167.6	1175.5	1188.6	1201.6	1196.4	1221.2	1247.4	1265.7	1290.5	1320.6
5°	1022.5	1029.0	1036.9	1063.0	1080.0	1084.0	1129.7	1163.7	1219.9	1277.5	1331.1
7.5°	887.8	895.7	911.4	940.1	975.4	984.6	1030.3	1098.3	1171.6	1247.4	1335.0
10°	789.8	797.6	814.6	832.9	880.0	880.0	942.7	1036.9	1132.3	1221.2	1336.3
12.5°	768.8	772.8	771.5	785.8	815.9	822.4	883.9	987.2	1098.3	1212.1	1357.2
15°	793.7	796.3	783.2	775.4	801.5	808.1	865.6	957.1	1076.1	1217.3	1391.2
17.5°	843.4	834.2	808.1	796.3	818.5	822.4	876.1	955.8	1073.5	1231.7	1430.5
20°	872.1	882.6	836.8	814.6	846.0	851.2	908.7	976.7	1086.6	1256.6	1485.4
22.5°	923.1	928.4	866.9	852.5	882.6	882.6	948.0	1018.6	1118.0	1297.1	1550.8
25°	995.0	988.5	916.6	902.2	931.0	942.7	1008.1	1085.3	1166.3	1335.0	1610.9
27.5°	1051.3	1055.2	996.4	958.4	1006.8	1014.7	1085.3	1157.2	1202.9	1366.4	1684.1
30°	1135.0	1127.1	1064.3	1021.2	1081.3	1082.6	1150.6	1225.2	1273.6	1422.6	1794.0
32.5°	1234.3	1218.6	1146.7	1085.3	1133.6	1145.4	1214.7	1323.2	1383.4	1528.5	1963.9
35°	1444.8	1406.9	1289.2	1193.8	1197.7	1202.9	1310.2	1465.8	1535.1	1663.2	2191.4
37.5°	1752.1	1736.4	1603.1	1421.3	1352.0	1336.3	1456.6	1654.0	1740.3	1841.0	2487.0
40°	2056.8	2034.5	1910.3	1773.0	1647.5	1616.1	1676.3	1903.8	1982.2	2088.2	2790.3
42.5°	2395.4	2356.2	2209.8	2098.6	2020.2	1986.2	1962.6	2217.6	2306.5	2378.4	3087.1
45°	2738.0	2673.9	2462.1	2377.1	2335.3	2317.0	2314.4	2612.5	2666.1	2680.5	3416.6
47.5°	3038.7	2969.4	2777.2	2681.8	2650.4	2645.2	2791.6	3067.5	3025.7	2987.7	3784.0
50°	3270.2	3225.7	3087.1	3053.1	3029.6	3020.4	3363.0	3535.6	3342.1	3275.4	4107.0
52.5°	3628.4	3529.1	3372.2	3383.9	3466.3	3467.6	3942.3	3980.2	3604.9	3472.8	4411.7
55°	3914.8	3849.4	3721.3	3704.3	3921.3	3944.9	4461.4	4317.5	3751.4	3661.1	4524.1
57.5°	4252.1	4222.1	4129.2	4131.9	4359.4	4409.1	4922.9	4602.6	3873.0	3782.7	4541.1
60°	4739.9	4653.6	4605.2	4627.4	4895.5	4943.8	5370.1	4807.9	3931.8	3862.5	4499.3
62.5°	5278.6	5177.9	5125.6	5239.3	5630.3	5638.1	5710.1	4989.6	3895.2	3883.4	4229.9
65°	5927.1	5827.7	5785.9	6014.7	6478.9	6450.1	6187.3	5066.7	3778.8	3672.9	3522.5
67.5°	6573.0	6512.9	6426.6	6791.4	7369.3	7369.3	6682.9	5038.0	3474.2	2948.5	2303.9
70°	6879.0	6920.8	7058.1	7630.8	8244.1	8181.3	7171.9	4707.2	2586.3	1583.4	906.1
72°	6675.0	6631.9	6986.2	7905.4	8782.8	8679.5	7089.5	3742.2	1494.5	694.3	315.1
72.5°	6324.6	6365.1	6852.9	7867.5	8682.1	8767.1	6888.2	3451.9	1229.1	553.1	238.0
75°	3878.2	3947.5	5115.1	6680.3	7565.5	7470.0	5328.3	1644.9	472.0	235.4	85.0
77.5°	1416.1	1473.6	2481.7	4203.8	5380.6	5320.4	3083.2	584.5	256.3	175.2	43.1
80°	368.7	398.8	843.4	1939.1	3164.3	3168.2	1290.5	234.1	173.9	143.8	26.2
82.5°	73.2	81.1	258.9	754.5	1478.8	1459.2	408.0	125.5	130.8	117.7	18.3
85°	9.2	11.8	54.9	256.3	478.6	428.9	100.7	62.8	96.8	91.5	11.8
87.5°	1.3	1.3	13.1	58.8	100.7	98.1	20.9	19.6	43.1	56.2	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
2.5°	1337.6	1342.9	1361.2	1376.8	1395.2	1400.4	1392.5	1405.6	1387.3	1397.8	1400.4
5°	1340.2	1370.3	1404.3	1426.5	1421.3	1408.2	1397.8	1362.5	1337.6	1328.5	1348.1
7.5°	1358.5	1392.5	1429.1	1429.1	1400.4	1332.4	1267.0	1204.3	1151.9	1125.8	1148.0
10°	1382.1	1417.4	1455.3	1405.6	1298.4	1174.2	1081.3	963.7	883.9	842.1	846.0
12.5°	1413.5	1463.1	1476.2	1361.2	1183.3	999.0	830.3	666.8	591.0	530.9	532.2
15°	1454.0	1502.4	1463.1	1264.4	1036.9	764.9	562.2	406.6	346.5	315.1	315.1
17.5°	1507.6	1544.2	1459.2	1175.5	839.4	523.0	345.2	274.6	261.5	256.3	256.3
20°	1570.4	1597.8	1421.3	1036.9	623.7	336.0	253.7	245.8	247.1	244.5	244.5
22.5°	1641.0	1650.1	1378.2	876.1	422.3	248.4	236.7	238.0	239.3	236.7	238.0
25°	1715.5	1690.7	1315.4	687.8	281.1	226.2	228.8	231.4	232.7	234.1	234.1
27.5°	1799.2	1749.5	1227.8	503.4	219.7	213.1	221.0	228.8	230.1	230.1	228.8
30°	1922.1	1839.7	1142.8	341.3	193.5	198.7	211.8	221.0	227.5	227.5	226.2
32.5°	2077.7	1933.9	1023.8	232.7	179.1	181.7	192.2	210.5	224.9	226.2	222.3
35°	2293.4	2047.6	899.6	185.7	168.7	170.0	176.5	190.9	215.7	223.6	222.3
37.5°	2521.0	2177.1	745.3	167.4	160.8	159.5	163.4	175.2	197.4	217.1	218.4
40°	2762.8	2313.1	583.2	158.2	154.3	151.7	153.0	158.2	175.2	200.1	205.3
42.5°	2990.4	2436.0	438.0	149.1	147.8	145.1	145.1	146.4	155.6	172.6	175.2
45°	3236.2	2536.6	333.4	142.5	138.6	139.9	134.7	132.1	138.6	139.9	138.6
47.5°	3466.3	2637.3	266.7	134.7	130.8	130.8	124.2	119.0	119.0	107.2	105.9
50°	3682.1	2692.2	213.1	124.2	122.9	121.6	112.4	103.3	95.5	81.1	78.5
52.5°	3861.2	2689.6	164.8	111.1	115.1	111.1	96.8	83.7	71.9	58.8	56.2
55°	3914.8	2564.1	124.2	91.5	98.1	92.8	77.1	65.4	52.3	41.8	40.5
57.5°	3869.0	2373.2	94.1	70.6	75.8	70.6	58.8	48.4	36.6	28.8	26.2
60°	3716.1	2149.6	73.2	54.9	57.5	53.6	44.5	36.6	26.2	18.3	15.7
62.5°	3425.8	1869.8	56.2	43.1	41.8	41.8	34.0	27.5	18.3	10.5	9.2
65°	2811.2	1457.9	43.1	30.1	30.1	30.1	26.2	19.6	11.8	5.2	2.6
67.5°	1765.2	848.6	35.3	23.5	22.2	22.2	18.3	13.1	6.5	1.3	0.0
70°	664.2	311.2	27.5	18.3	17.0	17.0	13.1	7.8	3.9	0.0	0.0
72°	228.8	119.0	22.2	13.1	13.1	11.8	9.2	6.5	2.6	0.0	0.0
72.5°	188.3	95.5	20.9	13.1	11.8	11.8	9.2	6.5	2.6	0.0	0.0
75°	68.0	39.2	14.4	9.2	7.8	7.8	6.5	3.9	1.3	0.0	0.0
77.5°	34.0	24.8	11.8	7.8	6.5	3.9	3.9	2.6	1.3	0.0	0.0
80°	20.9	15.7	6.5	5.2	3.9	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	14.4	9.2	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	9.2	3.9	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.6	1.3	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)