

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: P322526

Luminaire Tested: **GAN-SA2C-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9359 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

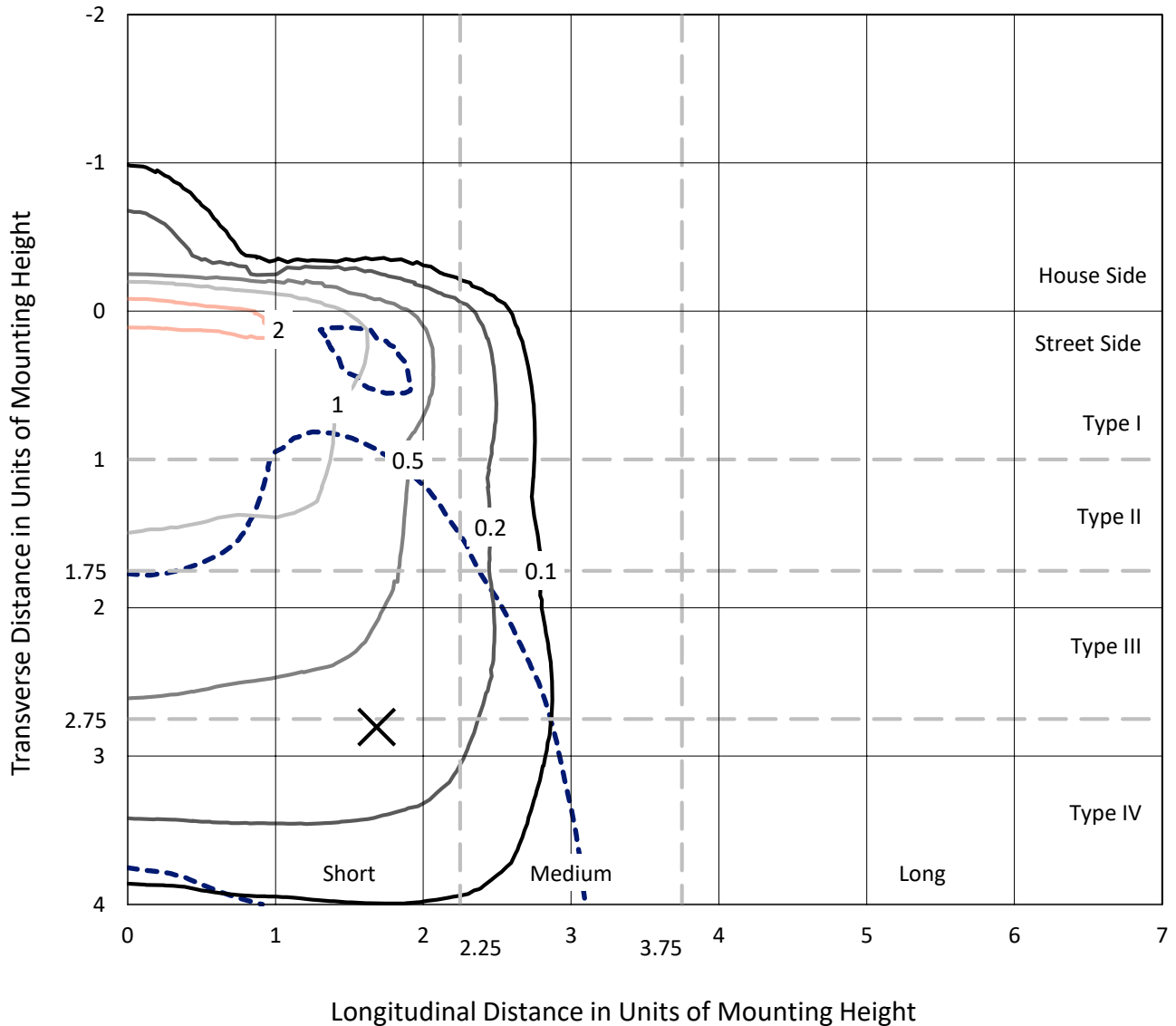
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

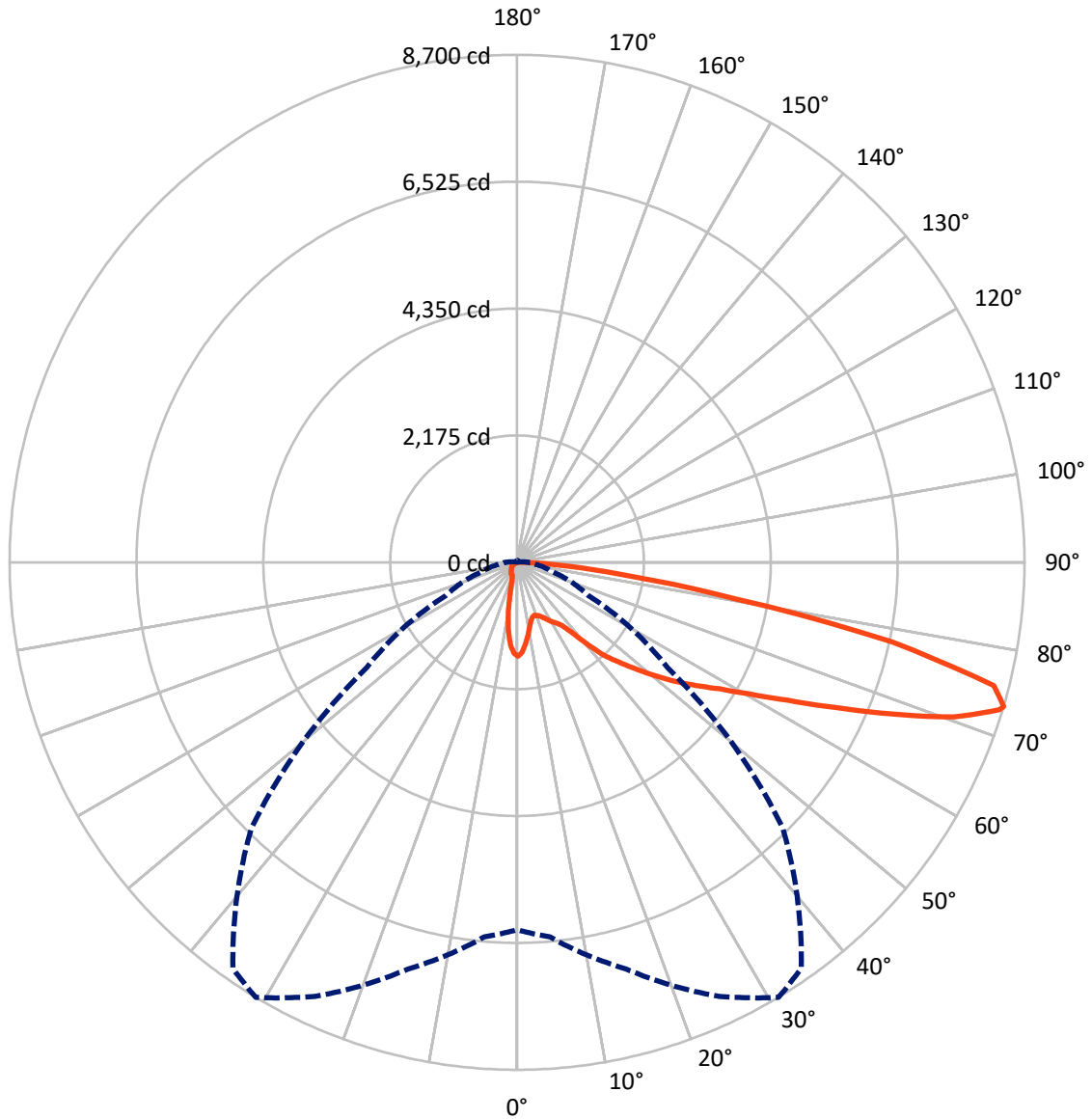
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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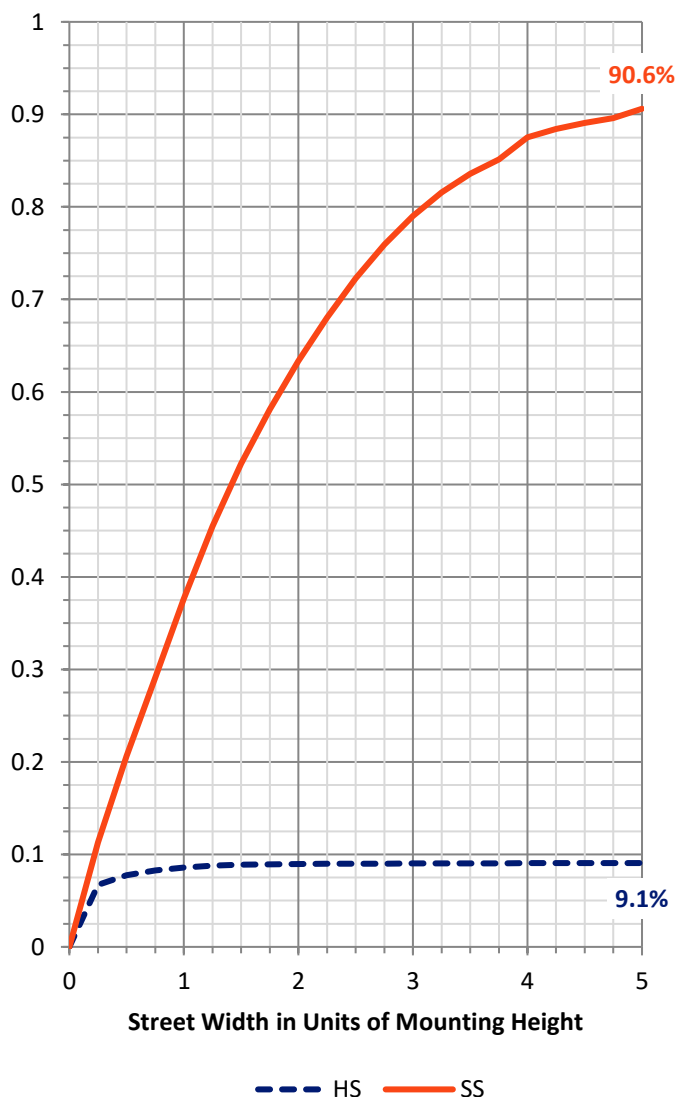
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	853.1	0.0	853.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	8505.9	0.0	8505.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	9359.0	0.0	9359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.4
10°-20°	289.9	3.1
20°-30°	434.3	4.6
30°-40°	691.0	7.4
40°-50°	1234.0	13.2
50°-60°	1914.8	20.5
60°-70°	2545.5	27.2
70°-80°	1914.7	20.5
80°-90°	201.2	2.1
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°	9359.0	100.0
0°-180°	9359.0	100.0

Coefficient of Utilization



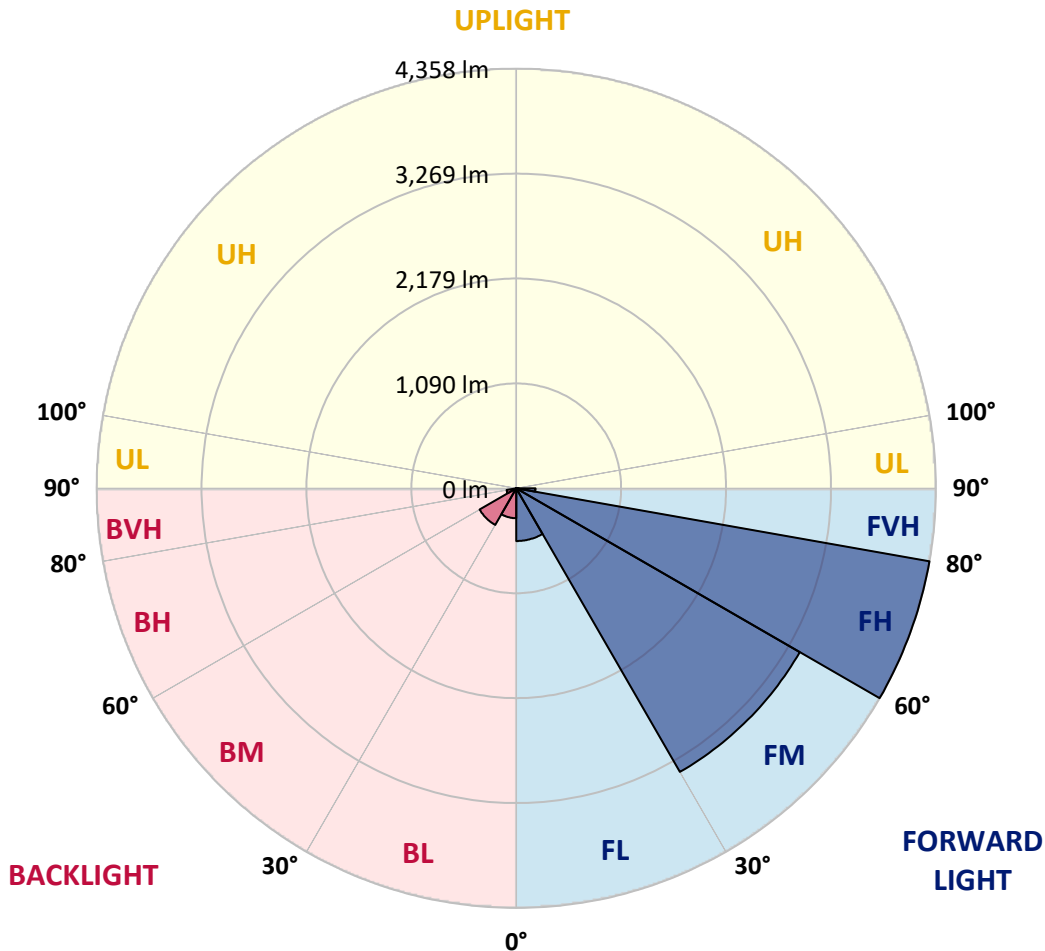
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.5	5.9			
FM (30°-60°)	3400.7	36.3			
FH (60°-80°)	4358.1	46.6			G2/5000
FVH (80°-90°)	199.5	2.1			G2/225
BL (0°-30°)	310.2	3.3	B1/500		
BM (30°-60°)	439.1	4.7	B1/1000		
BH (60°-80°)	102.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1526.0	1532.4	1539.2	1540.6	1552.1	1552.5	1569.0	1581.4	1593.7	1605.7	1609.8
5°	1369.3	1379.9	1392.2	1404.6	1428.9	1438.5	1478.8	1520.0	1559.4	1597.0	1615.3
7.5°	1202.2	1214.1	1231.5	1262.2	1289.2	1308.0	1371.6	1444.9	1518.2	1587.3	1627.2
10°	1049.7	1060.7	1079.0	1111.5	1153.2	1178.8	1264.5	1366.1	1473.8	1578.6	1645.0
12.5°	952.6	958.5	968.6	1003.4	1041.0	1069.8	1170.6	1296.5	1437.1	1578.2	1673.9
15°	934.7	936.6	928.3	943.9	973.2	1001.1	1103.3	1240.2	1409.2	1585.5	1711.4
17.5°	963.1	962.2	934.7	932.9	956.2	979.1	1070.3	1201.3	1389.5	1602.4	1760.0
20°	1006.2	1003.0	955.3	946.6	971.4	992.9	1068.0	1186.6	1382.2	1630.8	1819.1
22.5°	1063.4	1057.9	983.3	974.1	1000.7	1023.1	1096.4	1200.8	1388.6	1668.9	1887.8
25°	1134.4	1126.2	1031.4	1021.3	1048.3	1070.7	1147.2	1241.6	1407.8	1715.1	1974.8
27.5°	1214.5	1202.6	1108.3	1082.2	1112.9	1136.2	1215.0	1303.9	1438.0	1764.1	2081.5
30°	1290.1	1274.5	1189.4	1146.3	1183.9	1210.0	1288.3	1378.0	1486.6	1839.7	2227.6
32.5°	1366.1	1348.7	1261.7	1210.4	1244.3	1272.7	1363.8	1480.2	1577.7	1955.1	2421.8
35°	1541.1	1522.8	1416.1	1331.3	1330.9	1346.9	1469.6	1619.9	1698.2	2115.8	2653.5
37.5°	1835.6	1825.0	1723.4	1562.6	1519.6	1501.7	1613.9	1786.6	1871.3	2337.0	2915.0
40°	2158.0	2148.8	2034.8	1889.1	1823.7	1779.7	1820.9	2018.7	2115.8	2607.2	3182.0
42.5°	2522.1	2478.6	2275.2	2231.7	2173.1	2139.7	2102.6	2305.0	2416.3	2901.3	3446.7
45°	2852.7	2779.4	2515.6	2449.7	2436.4	2444.7	2465.3	2689.7	2754.3	3250.7	3710.5
47.5°	3049.6	2991.9	2789.5	2726.3	2722.7	2777.2	2932.9	3124.3	3090.9	3555.2	3942.7
50°	3237.0	3184.7	3016.7	3032.2	3049.2	3123.4	3463.7	3571.3	3398.2	3831.4	4155.7
52.5°	3388.5	3308.9	3220.9	3308.4	3391.8	3511.3	4011.4	3972.5	3616.2	4051.2	4337.9
55°	3476.0	3439.8	3482.4	3570.4	3727.0	3921.2	4528.4	4306.3	3775.5	4251.8	4459.3
57.5°	3796.6	3725.6	3810.3	3886.4	4090.6	4362.2	4971.3	4555.0	3890.5	4375.9	4487.2
60°	4184.5	4127.3	4177.2	4303.6	4579.3	4898.5	5385.3	4757.9	3950.5	4455.6	4414.9
62.5°	4801.9	4726.3	4695.1	4836.7	5202.1	5550.6	5699.5	4898.5	3937.2	4420.4	4166.6
65°	5629.0	5550.6	5411.4	5539.6	6004.5	6250.4	6050.7	4928.3	3845.6	4135.0	3539.2
67.5°	6476.2	6419.4	6300.3	6516.5	6936.0	7015.2	6422.2	4855.9	3550.7	3352.8	2500.5
70°	7035.8	7011.6	7089.0	7567.1	7941.3	7918.4	6762.9	4467.1	2767.5	2061.8	1237.0
72.5°	6632.4	6748.7	7320.2	8187.2	8644.3	8457.4	6588.0	3430.2	1581.8	793.2	357.7
73°	6298.1	6446.9	7216.3	8210.6	8699.7	8495.0	6440.9	3148.6	1348.3	626.0	271.1
75°	4381.4	4564.2	5974.3	7646.8	8440.5	8093.8	5368.8	1927.2	624.7	277.5	109.5
77.5°	2127.3	2262.4	3289.6	5525.0	6564.1	6323.7	3342.3	718.1	282.1	173.6	50.4
80°	794.1	883.0	1428.0	2812.0	3793.4	3892.8	1470.1	271.6	187.8	139.7	25.6
82.5°	207.9	231.7	526.7	1253.9	1944.1	2034.8	463.5	136.9	137.4	115.0	15.6
85°	66.4	76.0	164.4	562.8	915.9	804.2	120.9	66.4	99.8	85.6	8.7
87.5°	8.2	10.5	52.2	132.4	202.0	112.2	18.8	19.7	42.6	47.6	5.0
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°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1613.9	1611.6	1612.1	1600.2	1592.4	1576.8	1560.8	1553.4	1545.7	1542.5	1545.7
5°	1622.1	1618.0	1606.1	1569.5	1530.5	1480.2	1433.0	1397.3	1352.4	1340.0	1352.9
7.5°	1635.0	1626.7	1591.9	1517.3	1430.7	1334.5	1226.5	1147.7	1083.1	1041.4	1056.5
10°	1653.7	1638.2	1568.1	1441.2	1286.4	1116.1	962.7	843.1	758.4	723.6	722.2
12.5°	1685.3	1656.0	1538.8	1342.3	1110.1	883.0	681.9	552.3	483.6	439.2	438.3
15°	1720.1	1677.1	1501.7	1223.7	905.0	632.5	439.2	340.7	296.3	282.1	280.3
17.5°	1762.7	1701.4	1453.6	1077.6	690.2	419.0	286.7	258.3	256.5	255.1	255.1
20°	1816.3	1730.2	1391.8	910.5	489.6	279.8	243.6	245.5	246.4	244.6	245.0
22.5°	1878.6	1759.5	1318.0	730.9	331.1	234.0	233.1	235.4	236.3	235.4	235.9
25°	1951.0	1793.4	1228.3	542.7	239.1	222.1	224.4	227.6	229.9	229.9	229.9
27.5°	2040.7	1834.6	1120.2	378.7	206.5	209.8	216.2	222.1	225.3	226.2	226.2
30°	2157.5	1885.9	990.6	259.7	187.8	193.3	205.2	216.6	222.6	223.5	223.9
32.5°	2305.0	1943.6	840.4	191.9	171.7	175.9	188.7	207.9	219.4	221.2	221.2
35°	2474.0	2010.5	678.7	167.2	160.3	161.7	171.7	193.7	213.9	218.9	219.4
37.5°	2659.0	2076.5	516.1	156.2	150.7	150.7	158.0	176.8	200.6	216.2	218.0
40°	2831.7	2116.3	361.8	147.5	142.0	142.0	148.4	162.1	184.6	207.9	213.0
42.5°	2991.0	2130.0	251.9	139.2	133.7	135.1	140.6	151.6	168.5	191.9	196.5
45°	3155.0	2127.7	183.6	129.6	125.5	129.6	133.7	142.0	154.3	167.6	168.5
47.5°	3278.6	2108.5	145.6	120.4	117.7	123.2	126.9	132.4	139.2	138.3	138.3
50°	3394.5	2061.8	117.2	108.1	109.9	116.3	118.2	120.0	120.4	111.7	110.8
52.5°	3482.4	1989.0	93.9	94.8	102.1	108.5	106.7	104.0	99.4	88.8	87.0
55°	3511.7	1848.8	73.7	78.3	90.7	98.9	92.1	86.1	77.4	68.7	66.9
57.5°	3458.6	1667.9	60.0	60.9	76.5	83.4	75.6	68.7	59.1	51.8	50.4
60°	3346.0	1466.9	49.5	45.8	59.1	65.0	60.0	53.1	44.4	38.9	38.5
62.5°	3122.5	1252.6	40.8	35.7	44.9	49.9	46.7	41.7	34.3	30.7	30.2
65°	2652.6	1002.0	33.0	28.9	34.8	38.9	36.2	32.5	27.0	24.3	23.8
67.5°	1851.6	677.3	27.0	23.8	27.5	30.7	28.4	26.6	21.5	21.1	21.5
70°	893.0	326.5	22.4	19.2	21.5	23.8	22.9	21.5	20.6	23.8	27.5
72.5°	256.0	109.5	17.9	16.0	17.4	18.8	19.7	19.2	22.4	28.9	33.4
73°	196.9	88.4	16.9	15.1	16.5	18.3	19.2	18.8	22.9	29.3	33.4
75°	84.3	42.6	12.8	12.4	13.7	16.0	16.9	16.9	22.9	29.8	32.1
77.5°	38.0	22.9	8.2	9.6	11.9	12.8	14.2	14.2	18.3	22.9	22.9
80°	21.5	12.4	6.4	7.3	8.7	8.7	8.7	7.8	8.2	9.2	10.1
82.5°	13.7	8.2	5.0	6.0	5.5	4.6	3.7	3.7	3.2	3.7	4.6
85°	7.8	4.6	4.6	3.7	2.3	1.8	2.3	1.8	0.5	0.0	0.5
87.5°	4.6	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)