

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: P322227

Luminaire Tested: **GAN-SA3A-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10367 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

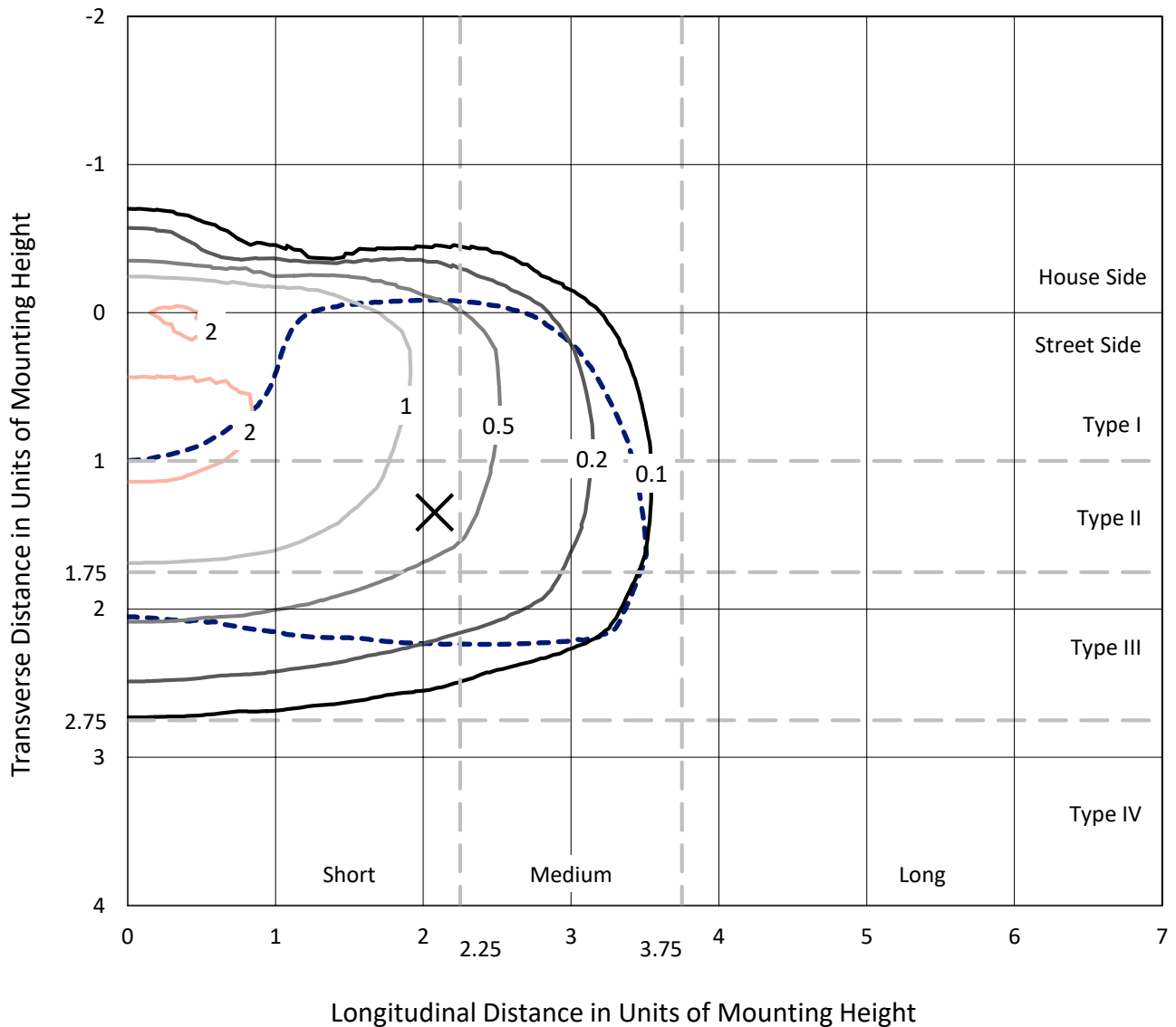
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

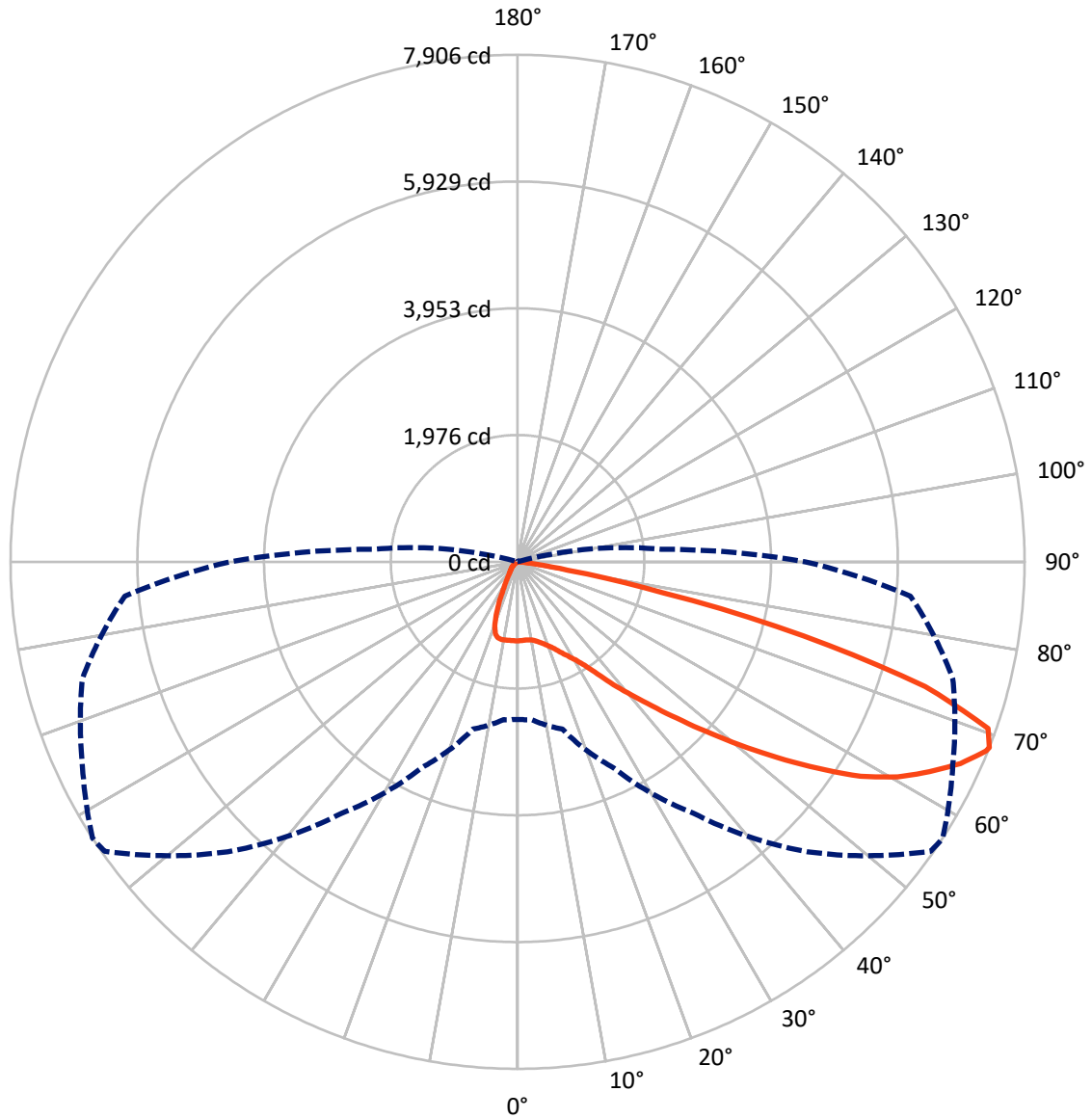
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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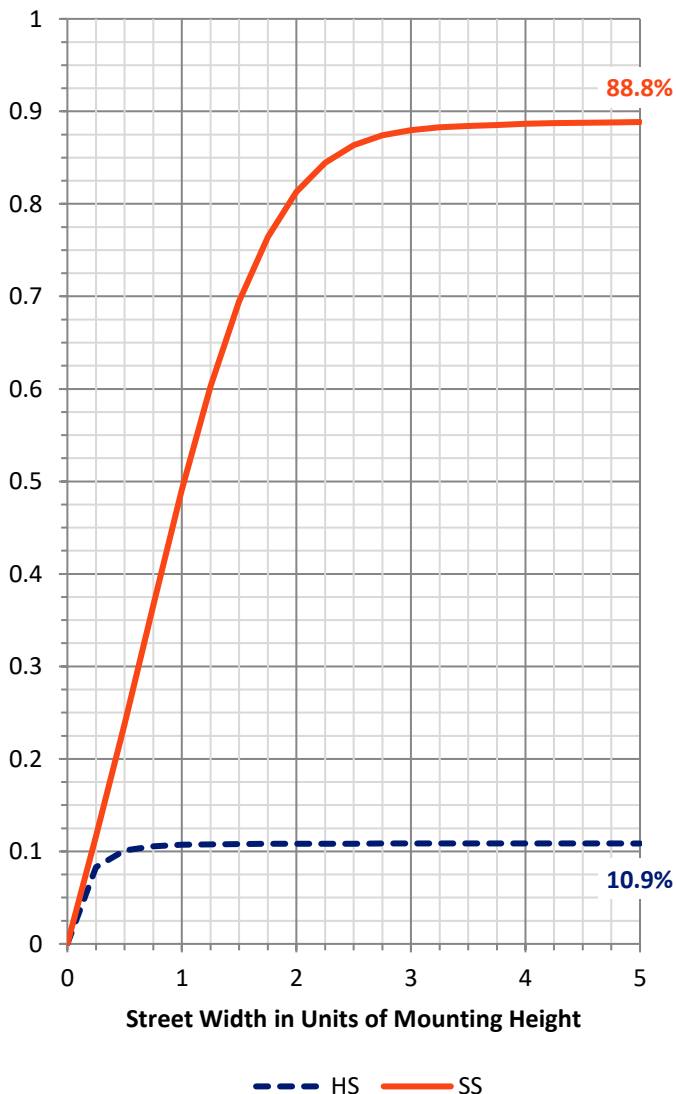
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1136.8	0.0	1136.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	9230.2	0.0	9230.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	10367.0	0.0	10367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.1
10°-20°	319.5	3.1
20°-30°	551.1	5.3
30°-40°	951.2	9.2
40°-50°	1627.0	15.7
50°-60°	2603.1	25.1
60°-70°	3007.6	29.0
70°-80°	1149.2	11.1
80°-90°	43.1	0.4
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°	10367.0	100.0
0°-180°	10367.0	100.0

Coefficient of Utilization



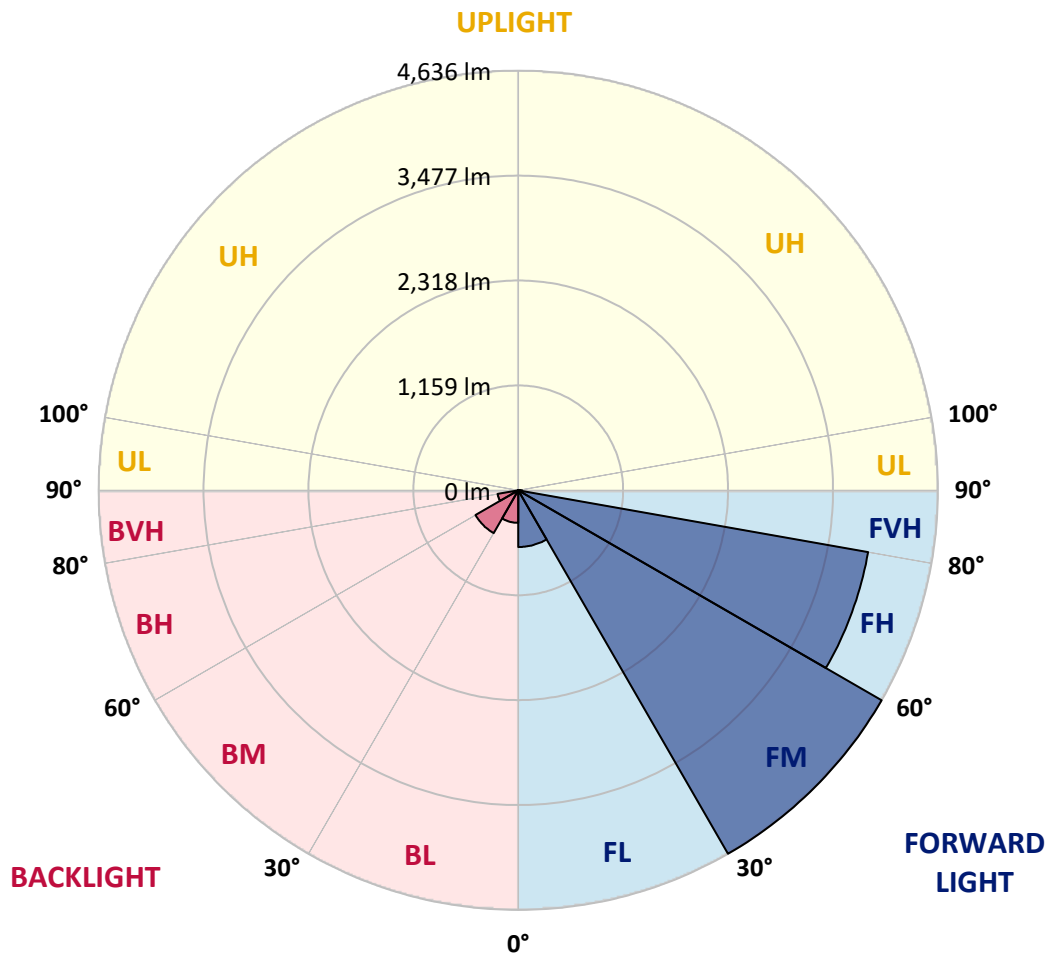
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.6	6.0			
FM (30°-60°)	4636.0	44.7			
FH (60°-80°)	3925.3	37.9			G2/5000
FVH (80°-90°)	42.3	0.4			G1/100
BL (0°-30°)	359.3	3.5	B1/500		
BM (30°-60°)	545.2	5.3	B1/1000		
BH (60°-80°)	231.5	2.2	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9
2.5°	1203.0	1208.3	1212.3	1214.7	1217.7	1224.0	1226.0	1228.9	1230.4	1230.4	1233.8
5°	1155.4	1161.3	1169.6	1176.5	1190.2	1207.9	1220.6	1225.5	1234.3	1242.2	1246.6
7.5°	1111.3	1118.1	1128.0	1144.1	1167.7	1196.1	1222.6	1229.4	1246.6	1263.2	1271.6
10°	1082.9	1088.2	1101.0	1124.0	1154.9	1194.6	1231.9	1240.2	1269.6	1297.6	1313.2
12.5°	1073.0	1078.0	1091.2	1117.2	1155.4	1202.0	1253.4	1265.7	1308.8	1349.5	1371.6
15°	1087.3	1088.2	1102.5	1127.0	1164.7	1220.1	1289.2	1303.9	1358.3	1411.3	1438.7
17.5°	1142.2	1137.8	1145.1	1155.9	1185.8	1244.1	1327.0	1349.0	1421.6	1483.8	1509.8
20°	1279.4	1279.4	1262.8	1233.3	1233.8	1281.4	1378.0	1403.0	1491.7	1563.7	1587.3
22.5°	1514.2	1509.8	1476.5	1404.4	1338.2	1345.6	1440.2	1472.6	1576.0	1653.0	1660.8
25°	1796.6	1791.2	1739.7	1638.2	1523.5	1449.5	1524.5	1561.8	1676.5	1744.6	1728.4
27.5°	2095.6	2091.2	2040.2	1914.2	1751.0	1615.2	1625.0	1660.3	1778.9	1846.1	1794.6
30°	2385.3	2386.8	2336.3	2206.9	2022.1	1826.5	1752.5	1773.1	1878.4	1946.6	1873.1
32.5°	2660.8	2662.8	2619.1	2474.5	2302.0	2072.1	1928.9	1923.5	1994.1	2061.3	1977.0
35°	2906.4	2911.3	2881.4	2769.1	2586.3	2345.6	2157.9	2145.1	2158.4	2234.3	2136.3
37.5°	3143.2	3146.1	3123.6	3028.9	2876.0	2646.1	2447.1	2428.9	2400.5	2458.8	2346.6
40°	3402.5	3395.1	3369.1	3283.4	3152.0	2978.0	2757.9	2726.5	2677.0	2728.9	2623.1
42.5°	3643.7	3635.3	3639.7	3542.7	3431.9	3319.1	3120.1	3066.2	3037.3	3097.1	2962.3
45°	3945.1	3940.7	3955.4	3871.1	3781.4	3699.5	3535.3	3476.5	3463.8	3533.9	3372.6
47.5°	4242.7	4253.5	4299.1	4263.3	4227.0	4154.9	3975.0	3948.6	3956.4	4041.2	3805.4
50°	4490.7	4503.5	4628.5	4669.6	4722.1	4679.9	4499.5	4483.4	4514.3	4590.7	4271.1
52.5°	4670.1	4696.1	4851.5	5041.2	5232.4	5260.8	5080.9	5066.2	5107.9	5119.7	4630.9
55°	4794.6	4817.7	4993.7	5340.7	5729.9	5852.5	5740.7	5683.9	5676.0	5559.8	5009.4
57.5°	4816.7	4814.3	5067.2	5534.4	6120.1	6436.3	6365.7	6309.9	6149.1	5966.7	5443.2
60°	4692.2	4706.4	5000.0	5601.5	6365.2	6878.0	6883.4	6810.8	6560.3	6362.3	5863.8
62.5°	4308.9	4366.7	4663.3	5425.5	6362.3	7055.9	7262.8	7207.4	6907.9	6686.3	6290.2
65°	3687.3	3707.9	3990.7	4822.6	5932.4	6981.4	7604.5	7583.9	7221.1	7001.0	6509.4
67.5°	2692.7	2648.1	2945.1	3797.6	5022.6	6547.1	7849.6	7875.6	7462.8	7065.7	6276.0
68°	2457.4	2470.6	2702.0	3544.1	4784.4	6393.7	7865.8	7905.5	7486.8	7023.6	6148.6
70°	1464.7	1490.2	1696.6	2440.2	3639.7	5525.5	7691.2	7781.9	7343.7	6588.8	5318.2
72.5°	374.0	404.4	599.5	1092.2	2078.9	3893.2	6492.7	6646.1	6376.0	5345.1	3590.2
75°	153.9	161.8	214.2	359.8	774.5	1753.9	4279.4	4607.9	4420.1	3200.0	1622.6
77.5°	106.4	111.8	137.7	199.5	335.3	594.6	2098.1	2335.3	2103.9	1092.2	353.9
80°	76.5	80.9	98.5	132.8	192.6	212.3	683.8	790.7	627.9	239.7	87.7
82.5°	45.6	49.0	73.5	94.6	117.2	101.5	170.1	193.1	181.9	119.1	39.2
85°	22.5	26.5	49.5	67.6	63.2	42.6	52.0	57.8	71.6	72.5	21.1
87.5°	1.5	2.9	28.9	40.7	17.6	9.8	15.2	18.6	25.5	35.8	8.8
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°	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9
2.5°	1235.3	1235.8	1232.4	1230.9	1231.9	1226.0	1223.5	1224.5	1224.5	1226.0	1223.5
5°	1247.6	1247.6	1241.7	1233.8	1229.4	1218.1	1210.8	1208.8	1207.4	1206.4	1204.4
7.5°	1274.0	1271.1	1260.8	1243.6	1228.9	1204.4	1185.8	1176.0	1171.1	1169.1	1167.7
10°	1316.7	1311.3	1294.1	1262.3	1228.4	1184.8	1144.1	1115.2	1091.2	1081.4	1075.5
12.5°	1374.0	1366.2	1337.3	1284.3	1225.0	1144.6	1056.4	971.6	892.7	860.3	844.1
15°	1440.2	1428.9	1383.3	1303.0	1204.9	1053.9	862.3	713.7	604.4	563.2	545.6
17.5°	1507.4	1492.7	1423.5	1314.7	1144.6	866.2	604.9	456.9	383.8	364.2	357.4
20°	1575.0	1553.4	1458.3	1305.9	1008.3	624.5	399.0	333.8	312.7	306.9	304.9
22.5°	1639.2	1605.9	1489.7	1271.6	798.5	419.1	315.7	295.1	288.2	284.8	283.8
25°	1695.1	1648.5	1517.2	1165.7	565.2	316.7	284.3	277.5	268.6	262.3	262.7
27.5°	1747.6	1691.2	1533.8	991.2	377.0	270.6	263.2	253.9	237.7	228.4	228.4
30°	1810.8	1748.1	1546.1	762.8	277.5	239.2	233.3	219.1	197.1	184.8	184.8
32.5°	1905.9	1834.3	1538.2	535.3	229.9	210.3	196.6	177.0	152.9	141.2	140.7
35°	2051.5	1967.7	1482.4	351.0	202.9	182.8	160.8	136.8	115.7	105.9	105.4
37.5°	2247.6	2146.1	1356.9	251.0	181.9	157.4	130.9	104.4	88.7	82.4	81.9
40°	2502.0	2353.5	1177.5	203.4	162.3	132.8	101.0	80.9	70.1	65.2	65.7
42.5°	2807.4	2575.5	962.3	175.5	143.1	109.3	78.9	63.7	56.9	53.4	52.5
45°	3146.6	2794.6	736.8	156.4	124.0	88.2	61.8	50.5	45.1	43.1	43.1
47.5°	3519.6	3007.9	539.2	139.7	103.4	68.1	49.5	41.2	36.8	35.3	34.8
50°	3858.4	3155.9	388.7	122.1	84.8	53.9	40.2	34.3	31.4	29.4	29.4
52.5°	4140.7	3202.5	286.3	102.9	68.6	43.1	33.3	29.4	26.5	25.0	25.0
55°	4389.3	3183.4	212.7	84.8	55.4	35.3	28.4	25.0	22.5	21.1	21.1
57.5°	4627.5	3121.6	158.8	69.1	44.6	28.4	24.0	21.1	18.6	17.6	17.6
60°	4822.1	3018.7	118.1	55.9	35.8	23.0	20.1	17.2	15.2	13.7	13.7
62.5°	4979.9	2904.9	86.8	46.1	28.4	18.1	15.7	14.2	11.3	9.8	9.8
65°	4980.9	2716.2	65.2	38.2	22.1	14.2	11.8	11.3	7.4	5.9	5.4
67.5°	4620.6	2341.7	50.0	32.8	17.2	10.8	8.8	9.3	3.9	2.5	2.0
68°	4489.7	2246.6	47.1	32.4	16.2	10.3	8.3	9.3	3.4	2.0	1.5
70°	3785.3	1787.3	37.7	31.4	14.2	7.8	6.9	9.3	2.9	1.5	1.0
72.5°	2421.1	1037.3	27.9	25.0	10.8	5.9	4.4	8.3	2.9	1.0	0.5
75°	1030.4	321.6	19.1	17.6	6.4	4.4	2.9	5.4	2.0	0.5	0.0
77.5°	217.2	72.5	11.3	10.8	4.4	2.9	2.0	1.5	0.5	0.0	0.0
80°	55.9	21.1	5.9	5.4	2.5	1.5	1.0	0.0	0.0	0.0	0.0
82.5°	17.6	8.3	3.4	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.5	0.5	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)