

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: P319345

Luminaire Tested: **GAN-SA1A-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4779 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

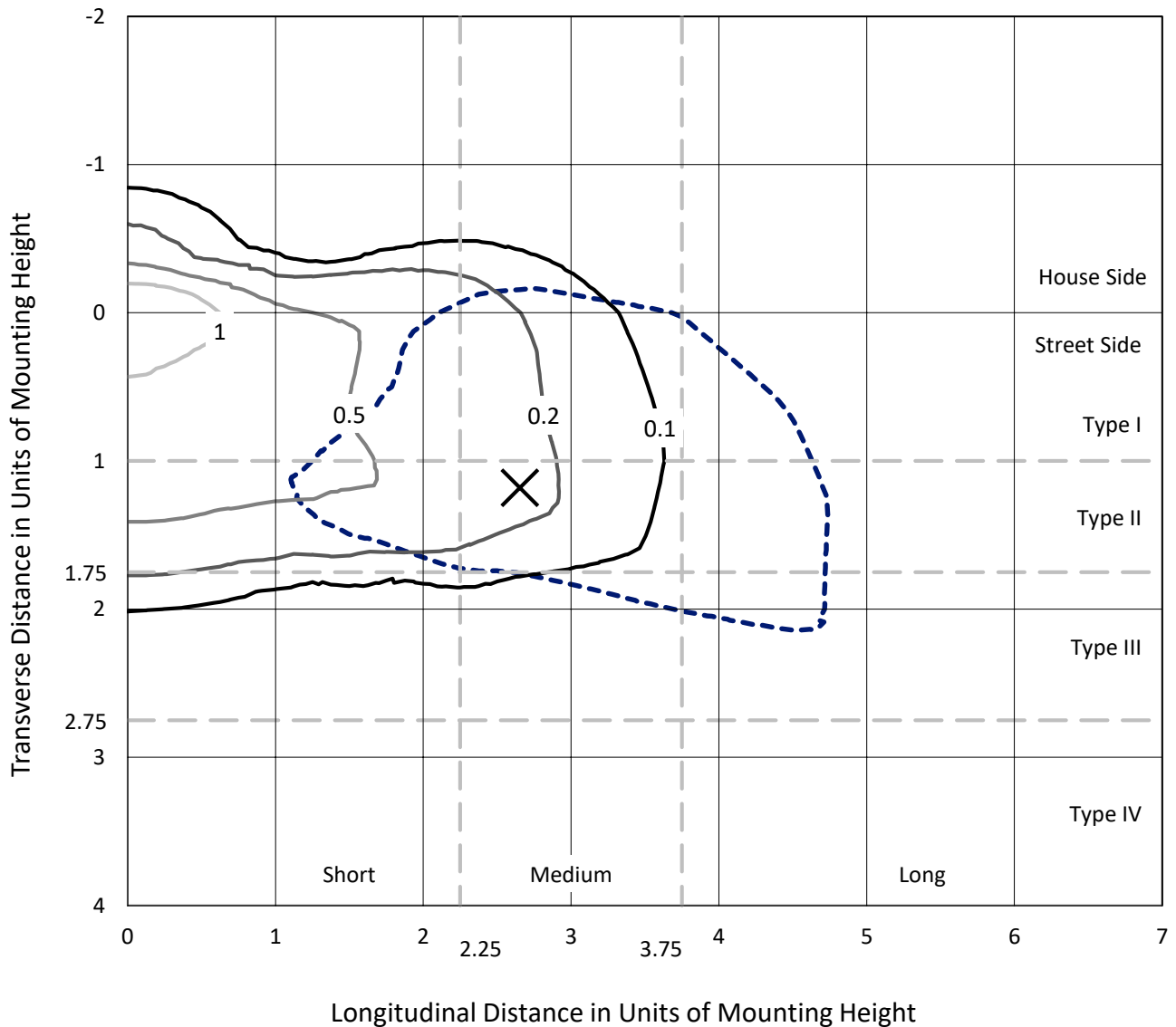
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

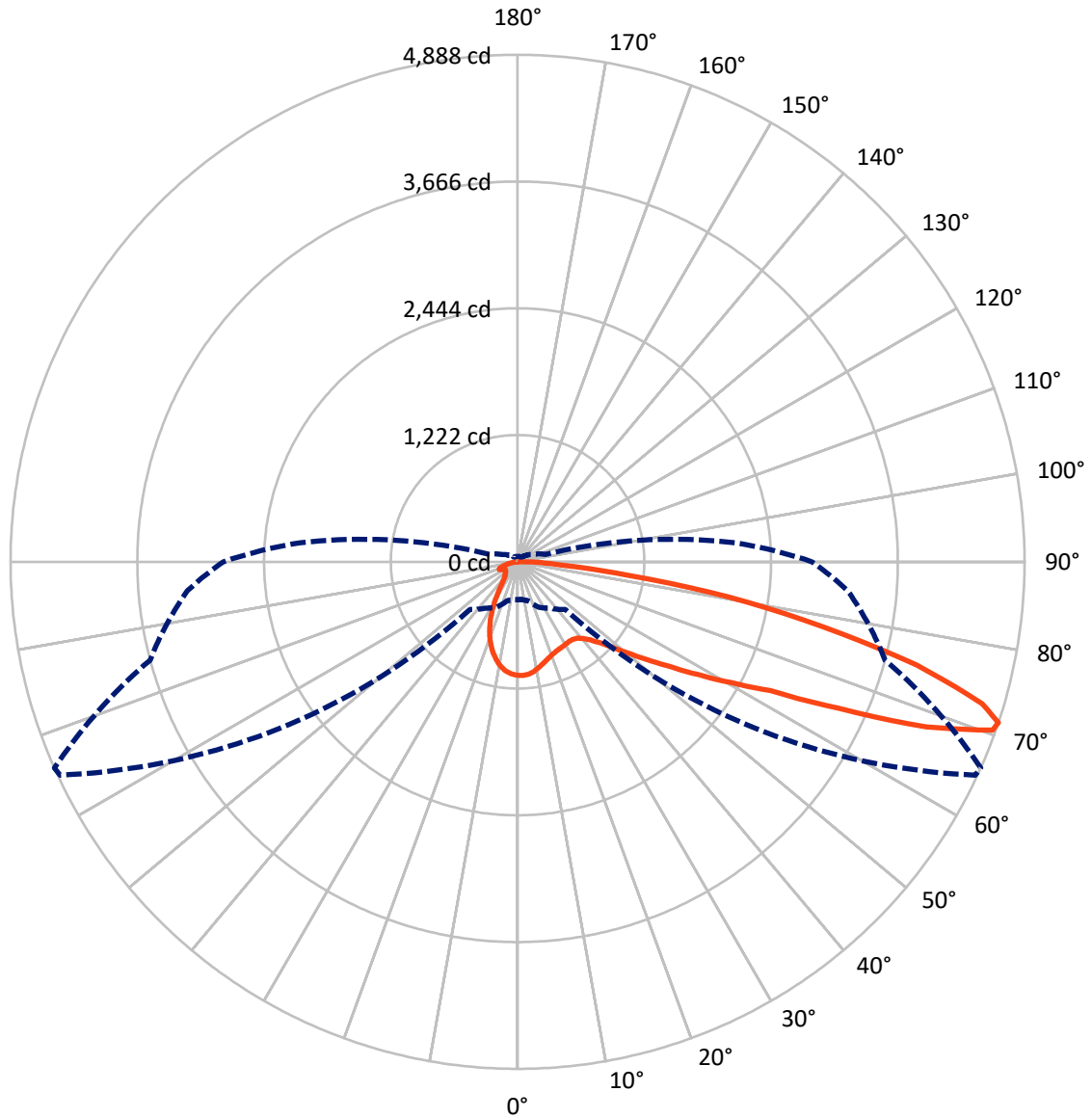
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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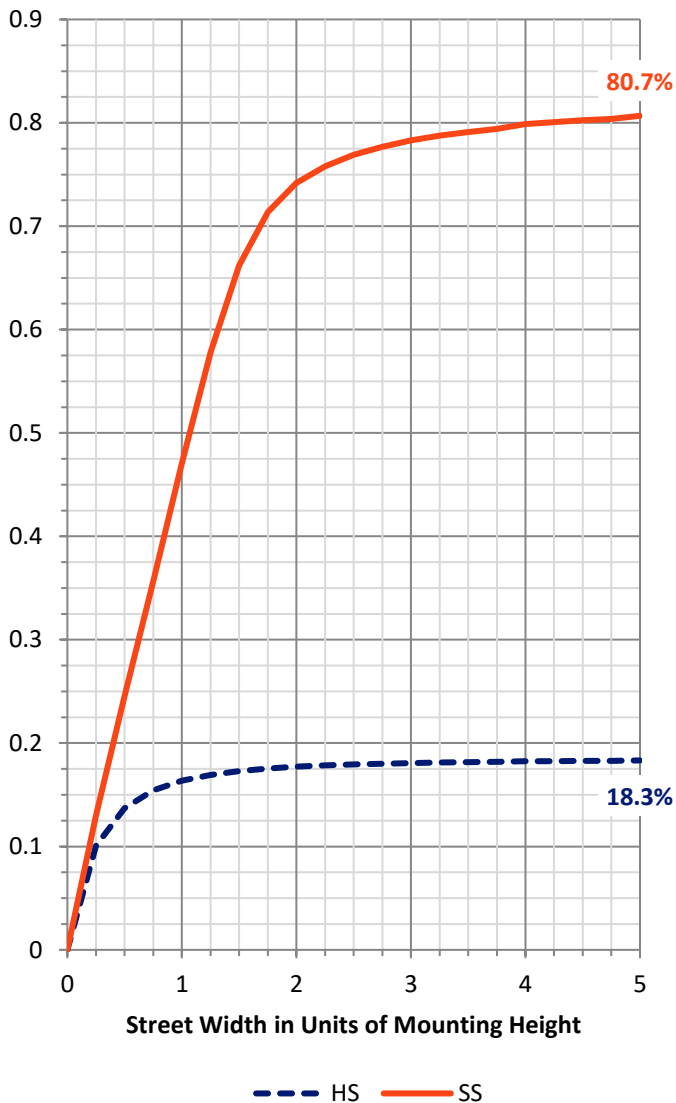
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	885.7	0.0	885.7
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	3893.3	0.0	3893.3
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	4779.0	0.0	4779.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.4	2.0
10°-20°	231.1	4.8
20°-30°	310.5	6.5
30°-40°	408.4	8.5
40°-50°	594.1	12.4
50°-60°	928.1	19.4
60°-70°	1162.6	24.3
70°-80°	886.8	18.6
80°-90°	161.0	3.4
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°	4779.0	100.0
0°-180°	4779.0	100.0

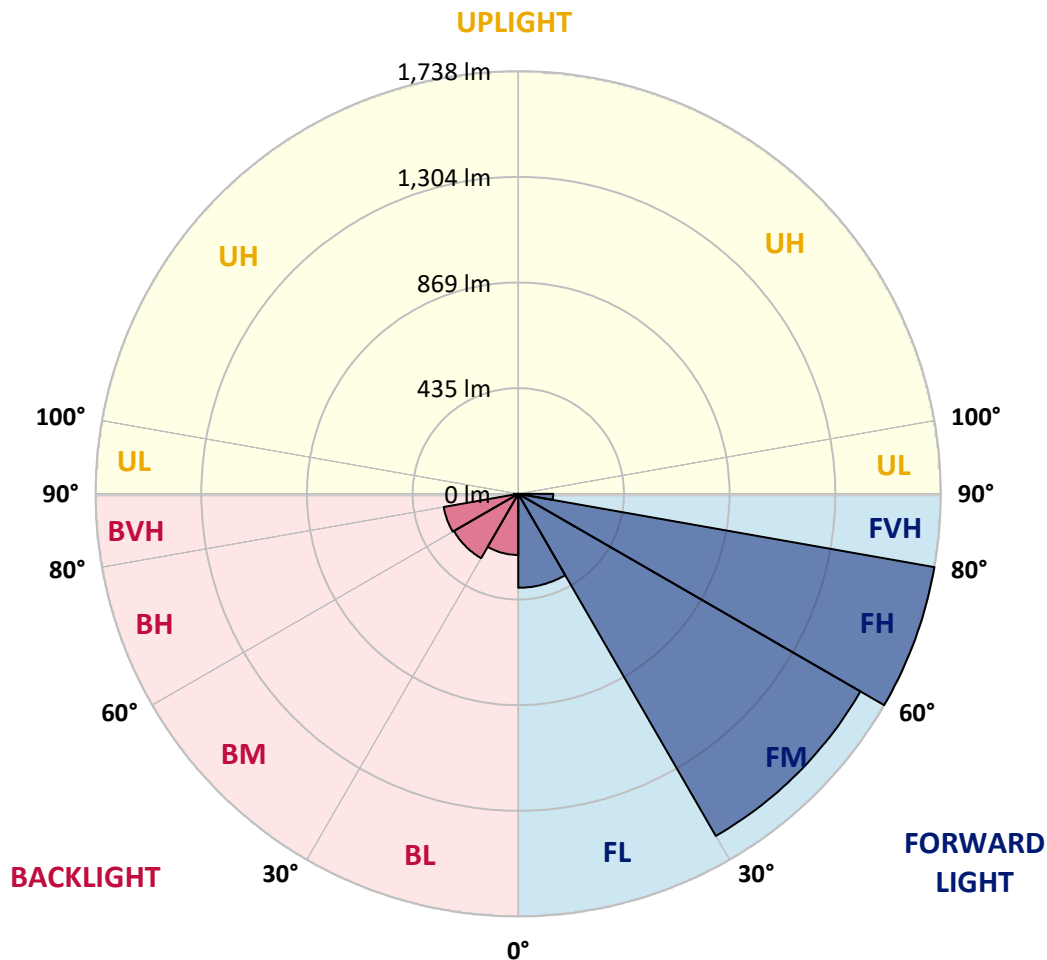


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.4	8.1			
FM (30°-60°)	1625.1	34.0			
FH (60°-80°)	1738.2	36.4			G1/1800
FVH (80°-90°)	143.6	3.0			G2/225
BL (0°-30°)	251.5	5.3	B1/500		
BM (30°-60°)	305.5	6.4	B1/1000		
BH (60°-80°)	311.2	6.5	B1/500		G1/500
BVH (80°-90°)	17.4	0.4			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1074.5	1072.8	1077.8	1082.9	1084.9	1088.2	1093.1	1095.9	1095.8	1096.3	1094.6
5°	1003.2	1001.1	1011.0	1019.0	1034.6	1052.0	1073.3	1088.5	1088.8	1097.4	1099.7
7.5°	935.7	934.2	945.6	958.7	976.6	1003.4	1037.9	1070.5	1072.5	1095.8	1103.9
10°	881.6	881.3	892.3	906.5	927.5	957.3	996.9	1044.8	1047.8	1087.8	1104.5
12.5°	839.4	840.0	849.6	865.8	887.9	919.1	962.0	1015.9	1020.7	1075.3	1100.7
15°	808.2	810.8	818.6	834.9	856.7	888.4	932.4	989.2	996.4	1061.3	1098.6
17.5°	790.4	793.3	798.8	812.3	832.8	863.3	905.0	967.2	973.8	1050.6	1098.7
20°	785.1	787.5	790.7	798.9	816.3	844.0	883.4	947.4	954.5	1042.0	1100.4
22.5°	795.5	797.3	797.6	797.0	807.5	830.1	867.7	932.9	940.5	1036.4	1101.5
25°	817.7	820.2	818.4	812.3	808.8	822.7	859.7	923.3	930.9	1032.2	1099.2
27.5°	851.2	851.6	850.1	842.2	825.8	823.5	857.2	917.7	925.0	1027.5	1094.4
30°	896.8	898.9	896.3	885.6	858.8	836.7	860.1	912.3	918.9	1021.4	1086.7
32.5°	950.1	955.4	955.2	944.0	905.7	866.3	872.4	909.0	914.1	1014.9	1077.3
35°	1005.3	1012.6	1026.1	1021.4	974.0	912.9	895.8	914.3	917.7	1014.1	1070.7
37.5°	1062.8	1070.0	1097.9	1110.8	1055.3	979.8	932.7	932.9	934.6	1024.2	1070.2
40°	1122.8	1130.6	1172.5	1206.0	1160.8	1064.4	992.3	971.9	970.0	1048.9	1079.9
42.5°	1207.0	1213.9	1264.2	1307.0	1277.8	1172.8	1074.6	1031.9	1028.1	1097.4	1111.1
45°	1313.4	1319.3	1372.8	1418.5	1403.5	1296.6	1178.1	1114.6	1113.9	1178.3	1174.3
47.5°	1440.0	1444.6	1492.6	1536.8	1542.3	1439.0	1308.1	1242.1	1231.4	1289.1	1272.2
50°	1571.8	1576.9	1609.6	1657.1	1697.5	1629.5	1475.4	1398.4	1384.0	1435.5	1410.8
52.5°	1659.1	1665.8	1694.2	1754.4	1872.1	1838.4	1673.3	1587.8	1566.0	1612.9	1593.9
55°	1620.1	1635.3	1678.7	1775.2	2011.7	2157.5	1917.3	1808.7	1784.1	1823.1	1811.9
57.5°	1443.1	1463.9	1523.1	1672.1	2031.3	2438.7	2286.2	2068.9	2051.6	2040.4	2045.5
60°	1119.5	1139.5	1212.9	1407.1	1894.5	2644.0	2841.5	2389.7	2364.6	2258.5	2263.1
62.5°	792.3	782.3	832.6	974.7	1539.5	2668.1	3473.3	2818.7	2736.2	2488.9	2468.6
65°	604.2	601.9	624.5	669.7	932.4	2379.8	3849.6	3539.7	3410.9	2759.8	2711.9
67.5°	496.5	492.4	514.6	580.5	600.4	1535.3	3857.9	4376.3	4249.7	3097.1	2993.4
70°	408.2	403.6	424.4	509.4	554.9	778.6	3246.9	4866.2	4859.4	3524.1	3206.0
71°	366.0	362.7	387.6	482.0	545.2	648.9	2803.4	4867.5	4887.8	3668.6	3193.4
72.5°	298.0	299.1	325.5	429.0	537.9	573.0	2060.4	4640.6	4683.5	3806.4	3079.4
75°	198.0	199.0	233.6	330.0	521.6	560.7	1132.4	3894.0	3972.9	3723.9	2810.0
77.5°	133.0	132.7	156.3	226.4	454.4	560.7	664.0	2912.4	2999.0	2963.1	2166.3
80°	91.6	90.9	107.6	156.3	344.0	567.4	513.3	2041.1	2067.3	1600.2	880.4
82.5°	56.1	56.6	70.3	110.4	234.1	510.7	484.6	1112.9	1084.4	448.8	219.9
85°	32.2	32.0	44.9	74.7	150.3	431.0	472.6	479.0	439.4	135.1	79.5
87.5°	11.6	12.4	24.1	41.4	86.1	300.1	401.0	249.2	224.6	61.1	36.0
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°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1093.5	1094.4	1093.3	1086.7	1081.1	1072.0	1066.9	1059.8	1057.7	1056.7	1059.3
5°	1097.6	1097.9	1088.2	1070.9	1051.4	1028.4	1011.9	991.7	982.1	978.0	980.6
7.5°	1101.4	1099.9	1078.6	1045.4	1009.5	969.5	934.1	901.6	882.6	874.8	875.5
10°	1101.9	1095.6	1061.4	1010.1	954.4	895.8	841.3	791.2	759.5	738.9	745.1
12.5°	1096.8	1086.2	1036.2	964.4	887.0	807.2	733.6	658.4	613.1	592.2	592.8
15°	1092.8	1073.7	1005.2	910.6	806.7	700.9	600.4	512.0	463.8	442.4	432.3
17.5°	1089.5	1060.1	969.2	850.1	711.8	577.7	456.9	378.0	351.6	345.3	342.7
20°	1084.9	1045.8	929.1	780.0	603.7	439.7	333.6	294.7	294.9	302.1	303.1
22.5°	1078.4	1029.4	886.4	701.3	487.7	320.3	261.5	250.3	261.7	275.6	278.0
25°	1068.9	1010.1	838.9	614.3	371.9	246.2	223.4	222.9	236.8	251.3	253.4
27.5°	1055.3	984.9	786.1	520.9	274.1	209.2	200.1	203.6	213.8	224.4	225.2
30°	1037.2	955.5	727.8	422.4	214.8	186.3	185.3	188.4	194.7	202.1	202.8
32.5°	1017.2	925.7	665.6	327.0	184.0	173.9	174.9	176.4	179.4	182.3	183.0
35°	999.1	895.1	601.9	248.5	169.3	165.8	165.2	164.8	165.2	164.2	164.3
37.5°	987.4	869.9	535.6	197.8	160.9	158.7	156.8	154.3	151.5	149.8	150.2
40°	983.1	851.1	468.4	170.9	153.9	152.5	148.7	143.4	140.1	139.1	139.1
42.5°	994.6	841.3	403.6	157.4	148.2	145.7	139.4	133.3	130.8	130.7	130.5
45°	1029.9	845.3	341.9	150.0	142.9	138.1	129.9	124.7	123.1	123.4	123.3
47.5°	1093.3	870.2	289.1	145.0	137.6	131.3	122.1	118.0	116.0	116.0	116.2
50°	1201.0	928.5	247.0	140.9	133.2	125.1	116.5	111.4	108.7	108.6	108.6
52.5°	1358.0	1032.7	220.8	137.4	128.2	119.5	110.9	104.4	101.3	100.7	100.3
55°	1554.6	1182.2	213.5	135.1	121.6	113.4	104.1	97.7	94.2	92.7	92.6
57.5°	1774.6	1364.1	227.9	132.3	114.8	106.1	96.7	90.6	87.0	85.1	85.0
60°	1997.2	1562.6	286.4	128.4	109.2	98.2	89.1	83.5	79.9	77.9	77.6
62.5°	2220.1	1771.8	406.1	128.0	105.3	90.6	81.3	76.6	73.1	71.0	70.5
65°	2471.5	2000.8	542.0	136.8	104.0	83.7	73.4	69.6	66.7	64.7	64.5
67.5°	2760.3	2259.3	529.0	154.8	108.4	77.4	66.0	63.0	60.9	59.2	59.1
70°	2895.8	2218.9	328.8	167.5	114.7	71.3	58.9	56.8	55.1	54.0	53.5
71°	2839.0	2106.9	275.7	166.0	114.0	68.6	56.1	54.5	52.8	51.8	51.3
72.5°	2684.2	1921.4	230.0	154.4	106.6	63.9	52.5	50.8	49.3	48.2	47.9
75°	2408.7	1716.0	184.1	123.4	85.0	54.0	46.0	44.2	43.1	42.4	41.7
77.5°	1770.6	1224.6	142.4	97.5	62.5	44.1	39.3	38.0	36.8	35.8	35.3
80°	678.3	474.4	95.9	72.8	45.9	34.8	31.7	31.0	29.9	29.2	29.2
82.5°	182.7	141.7	51.2	44.1	30.7	25.4	24.3	23.9	22.9	21.6	21.8
85°	73.9	62.5	28.7	24.3	18.8	15.0	16.3	16.5	15.3	13.7	13.9
87.5°	32.5	26.6	16.0	10.7	8.3	5.8	7.4	7.4	6.8	5.6	5.1
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)