

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: P653740

Luminaire Tested: **GLAN-SA2A-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7717 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

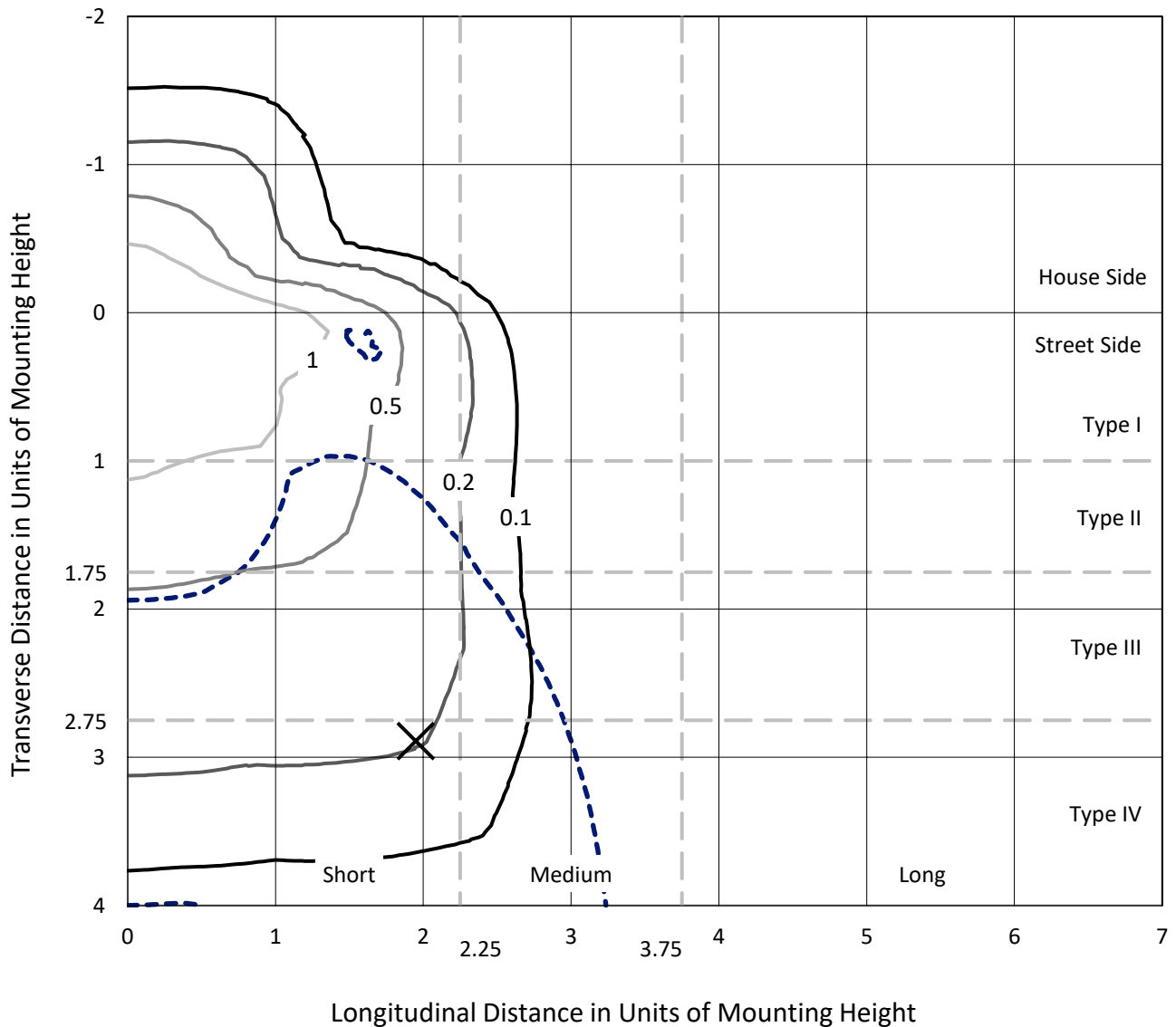
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

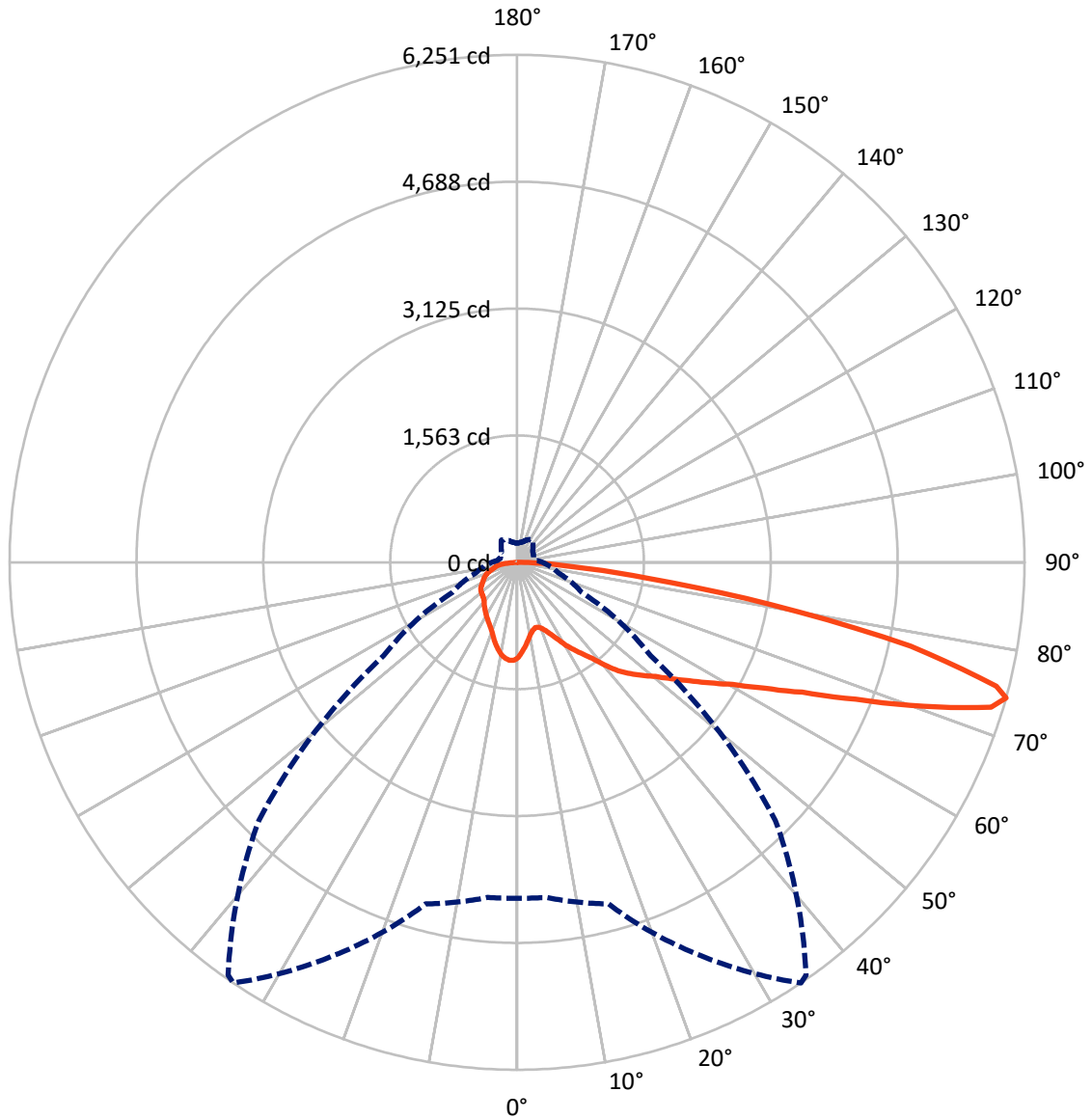
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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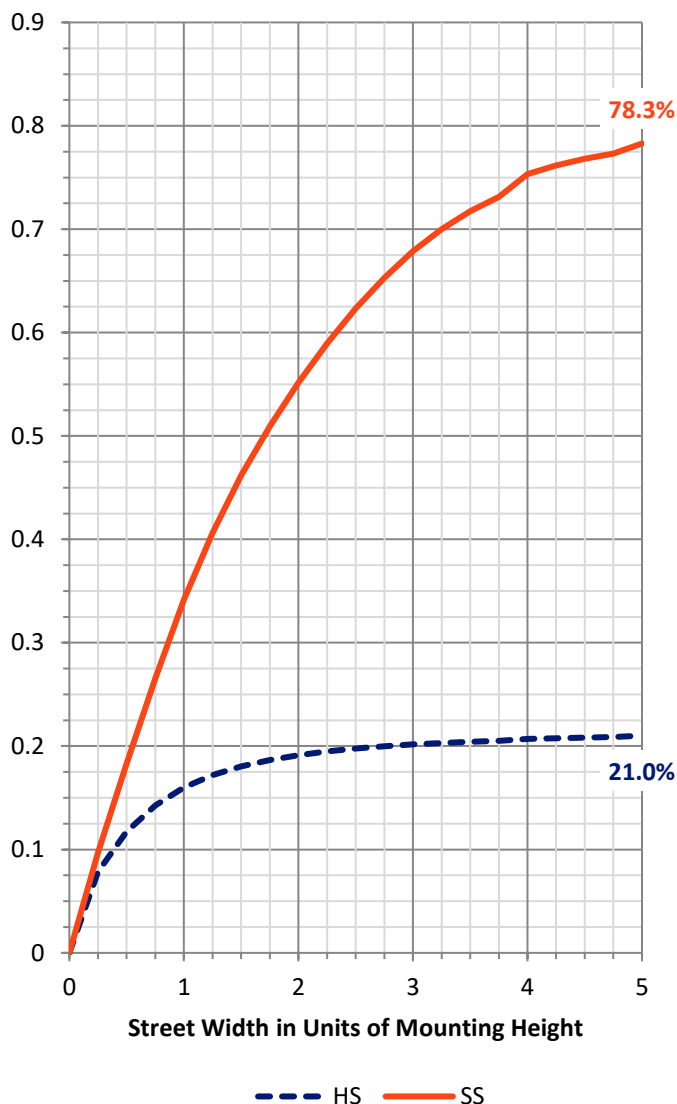
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1642.2	0.0	1642.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6074.8	0.0	6074.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	7717.0	0.0	7717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.4
10°-20°	293.3	3.8
20°-30°	483.6	6.3
30°-40°	724.4	9.4
40°-50°	1053.1	13.6
50°-60°	1470.9	19.1
60°-70°	1841.6	23.9
70°-80°	1522.8	19.7
80°-90°	220.0	2.9
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°	7717.0	100.0
0°-180°	7717.0	100.0

Coefficient of Utilization



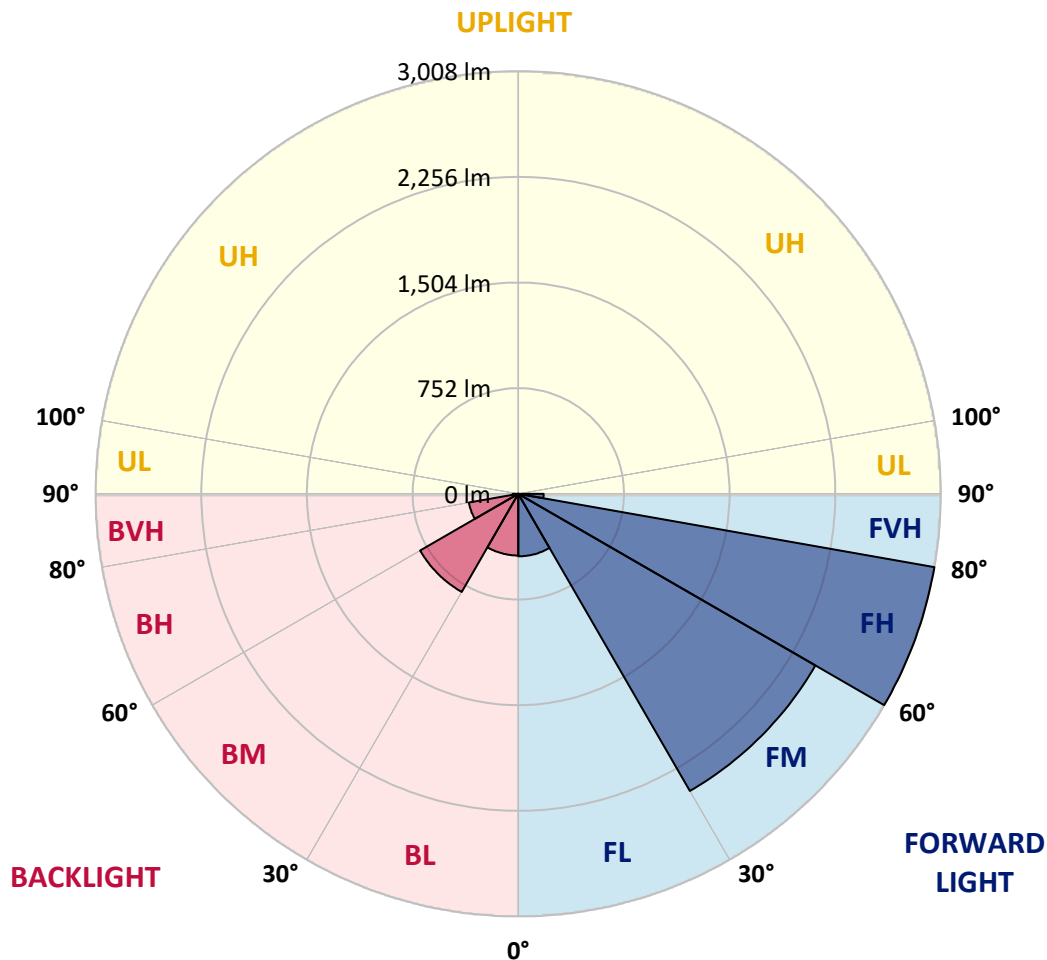
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.8	5.8			
FM (30°-60°)	2442.0	31.6			
FH (60°-80°)	3007.7	39.0			G2/5000
FVH (80°-90°)	180.3	2.3			G2/225
BL (0°-30°)	439.3	5.7	B1/500		
BM (30°-60°)	806.5	10.5	B1/1000		
BH (60°-80°)	356.7	4.6	B1/500		G1/500
BVH (80°-90°)	39.8	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2
2.5°	1088.9	1094.5	1097.4	1108.1	1110.7	1114.1	1123.1	1135.1	1150.5	1164.1	1176.1
5°	998.3	1006.8	1011.9	1021.3	1039.7	1041.4	1065.4	1092.7	1123.9	1153.0	1177.0
7.5°	912.3	921.7	926.0	943.1	967.5	971.4	1006.3	1049.6	1101.7	1145.8	1182.5
10°	847.7	852.4	861.9	874.7	903.7	906.3	952.1	1009.8	1077.3	1142.3	1191.9
12.5°	812.7	815.3	817.5	831.1	859.8	863.6	911.5	976.9	1058.1	1144.9	1207.3
15°	817.9	818.7	809.3	811.8	834.9	840.5	887.9	955.0	1046.1	1151.3	1230.4
17.5°	861.0	858.0	834.9	823.0	839.2	841.8	883.2	946.5	1040.6	1163.3	1254.4
20°	929.0	924.7	885.0	858.5	867.8	870.0	898.6	952.9	1046.1	1183.0	1291.5
22.5°	1013.7	1011.9	951.7	919.5	919.1	919.1	934.1	976.0	1062.8	1209.9	1330.5
25°	1132.1	1123.1	1044.4	1003.0	991.4	990.5	988.8	1014.1	1084.2	1238.5	1376.6
27.5°	1253.5	1238.1	1168.0	1104.3	1079.5	1076.5	1065.4	1067.9	1111.5	1271.0	1429.2
30°	1362.5	1352.7	1286.8	1216.3	1186.8	1179.9	1149.1	1135.1	1157.3	1329.5	1513.0
32.5°	1445.8	1439.9	1388.6	1324.4	1280.8	1279.6	1234.7	1223.2	1228.7	1400.5	1608.7
35°	1513.4	1515.6	1489.5	1433.9	1383.9	1376.6	1346.7	1332.1	1315.9	1503.1	1729.3
37.5°	1605.7	1610.4	1608.7	1560.9	1499.8	1501.4	1494.6	1470.7	1427.5	1617.7	1863.2
40°	1707.5	1710.9	1710.5	1692.1	1660.0	1661.7	1659.2	1631.8	1567.3	1763.5	2011.9
42.5°	1848.2	1832.0	1789.6	1808.0	1826.8	1834.9	1852.5	1826.3	1737.8	1919.2	2151.7
45°	2005.4	1974.7	1879.0	1887.5	1957.2	1972.6	2069.2	2033.3	1922.9	2097.8	2316.3
47.5°	2104.7	2074.3	1993.5	1991.8	2084.2	2099.1	2270.1	2256.8	2091.4	2290.6	2517.2
50°	2193.2	2188.9	2097.8	2119.7	2209.8	2232.1	2489.0	2476.6	2259.4	2518.0	2736.1
52.5°	2324.4	2289.8	2217.1	2262.0	2381.3	2410.3	2706.2	2669.8	2413.8	2719.0	2948.5
55°	2383.4	2375.3	2371.0	2409.9	2573.6	2594.6	2917.3	2834.0	2545.5	2889.2	3110.2
57.5°	2541.2	2526.2	2568.5	2595.0	2800.2	2832.3	3137.9	3005.5	2660.8	3024.2	3188.8
60°	2745.5	2737.4	2776.3	2824.2	3053.3	3102.0	3389.3	3151.6	2753.6	3092.2	3145.7
62.5°	3050.7	3049.9	3042.7	3145.3	3412.0	3456.9	3677.9	3294.0	2768.2	3041.4	2922.5
65°	3488.6	3473.2	3409.8	3521.9	3858.3	3910.9	3978.4	3373.5	2680.5	2780.2	2460.8
67.5°	3946.4	3945.6	3894.3	4039.6	4499.2	4553.5	4354.3	3356.0	2437.3	2252.2	1747.7
70°	4326.0	4307.7	4373.0	4760.4	5317.9	5380.7	4683.0	3149.5	1941.4	1487.3	1038.5
72.5°	4417.1	4417.9	4553.9	5316.1	6104.1	6113.9	4801.4	2552.7	1299.3	820.4	519.4
74°	4136.6	4143.9	4354.7	5344.0	6250.7	6206.2	4498.8	2006.4	878.5	535.7	374.5
75°	3775.8	3730.1	4034.9	5158.9	6098.5	6050.7	4144.4	1610.0	670.4	428.0	327.9
77.5°	2018.7	2065.3	2535.6	3849.8	4954.5	4899.3	2810.0	772.1	362.1	298.0	236.0
80°	718.6	792.6	1114.1	2014.4	3176.5	3193.5	1341.1	354.0	254.8	219.8	166.8
82.5°	293.3	301.4	478.4	893.9	1613.0	1628.4	547.7	210.3	182.2	151.4	99.6
85°	114.5	118.0	211.6	401.8	688.3	733.2	189.4	111.2	112.0	86.8	50.9
87.5°	38.5	43.6	86.8	133.8	233.9	229.2	55.2	32.9	40.2	37.6	15.8
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°	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2
2.5°	1182.1	1190.2	1195.7	1201.8	1207.3	1209.0	1207.8	1211.5	1212.0	1212.5	1212.9
5°	1188.9	1200.0	1210.7	1216.7	1219.3	1217.2	1209.9	1206.0	1202.6	1200.0	1200.9
7.5°	1198.3	1214.2	1224.0	1226.5	1219.7	1209.9	1191.9	1177.8	1168.8	1162.9	1162.4
10°	1212.9	1228.3	1236.4	1229.1	1210.3	1186.4	1158.1	1131.6	1111.5	1105.6	1105.2
12.5°	1231.2	1248.8	1248.4	1226.9	1194.1	1151.3	1105.6	1074.8	1047.4	1033.8	1039.3
15°	1255.2	1268.5	1256.0	1217.6	1165.4	1106.8	1050.4	1008.5	977.7	963.2	964.0
17.5°	1282.9	1294.6	1261.6	1200.9	1125.3	1050.0	984.6	944.8	920.5	909.8	908.9
20°	1317.6	1321.0	1261.6	1171.8	1073.5	983.7	921.3	893.5	879.9	874.3	876.0
22.5°	1354.8	1348.0	1254.8	1130.8	1005.5	914.4	872.5	860.2	853.4	852.4	853.4
25°	1396.7	1377.5	1240.6	1075.2	934.5	854.6	830.2	832.3	833.7	833.7	836.6
27.5°	1448.0	1409.5	1217.2	1005.1	851.6	799.0	792.2	807.2	814.0	815.3	817.5
30°	1515.6	1444.6	1178.2	917.4	781.0	749.0	761.0	781.0	788.8	793.5	792.6
32.5°	1595.9	1483.0	1125.7	829.8	724.2	713.9	728.5	749.0	757.6	760.1	756.7
35°	1690.4	1526.7	1056.4	747.7	674.7	680.6	697.7	704.1	711.8	711.8	713.5
37.5°	1792.2	1561.7	971.8	672.5	636.1	657.9	670.4	664.4	660.9	656.7	658.8
40°	1895.6	1587.8	861.9	598.1	597.7	634.5	637.8	620.7	607.0	602.8	600.6
42.5°	1985.9	1604.0	762.7	540.3	561.4	611.3	613.9	586.5	564.7	551.9	547.7
45°	2092.2	1622.9	665.7	492.5	527.6	593.0	599.4	562.6	530.6	503.6	496.8
47.5°	2238.1	1665.6	589.1	455.3	503.2	581.4	590.4	542.9	500.6	465.6	460.0
50°	2402.7	1724.1	529.7	430.1	484.4	571.1	582.3	522.8	472.8	434.0	429.7
52.5°	2553.5	1755.8	478.4	407.5	466.0	552.4	571.6	508.3	445.5	402.3	398.5
55°	2636.0	1704.5	428.0	385.2	440.8	528.0	556.7	488.2	419.0	385.6	380.0
57.5°	2647.2	1598.5	382.2	361.2	414.3	498.0	528.8	463.9	401.8	374.1	369.4
60°	2561.3	1440.3	346.7	341.6	387.4	464.3	497.6	442.5	384.3	361.2	356.6
62.5°	2347.5	1268.5	321.9	323.6	359.9	428.8	474.6	421.9	367.7	347.2	342.9
65°	1979.8	1047.0	298.0	305.3	335.6	401.0	453.6	404.9	350.9	336.5	332.6
67.5°	1375.3	755.9	278.3	286.0	312.5	372.8	429.2	386.4	332.2	324.5	318.5
70°	761.4	465.2	255.2	264.2	288.5	341.2	401.8	358.7	304.8	301.4	292.8
72.5°	400.1	296.3	229.2	239.0	256.1	300.6	359.9	328.3	277.9	263.3	252.2
74°	312.5	242.8	211.6	221.9	233.5	276.6	335.1	306.5	258.6	241.5	233.0
75°	272.3	216.3	196.6	209.9	220.2	260.4	316.0	291.2	247.9	231.7	224.0
77.5°	192.4	162.1	160.7	176.5	182.2	228.3	284.8	265.1	221.0	203.9	196.6
80°	135.1	121.4	127.4	137.3	144.9	201.8	264.2	229.2	181.2	161.1	158.6
82.5°	88.1	79.6	91.1	100.1	102.6	148.8	213.4	174.0	132.1	107.3	99.6
85°	40.6	39.8	52.1	50.9	50.5	72.7	126.6	101.8	76.1	56.9	53.4
87.5°	10.3	9.8	12.9	10.7	12.9	11.1	11.5	3.0	0.4	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)