

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: P317795

Luminaire Tested: **GAN-SA1B-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6117 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

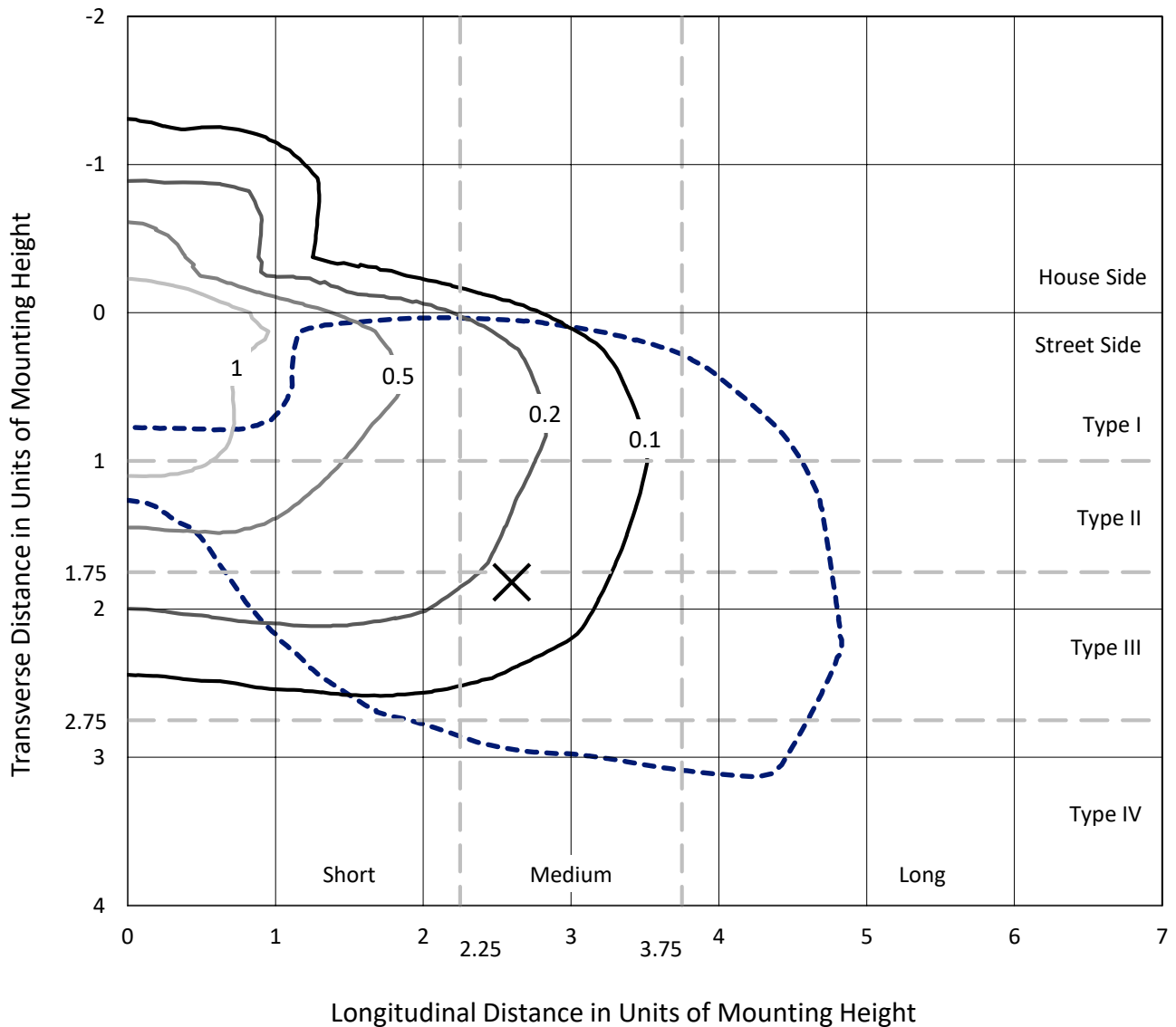
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

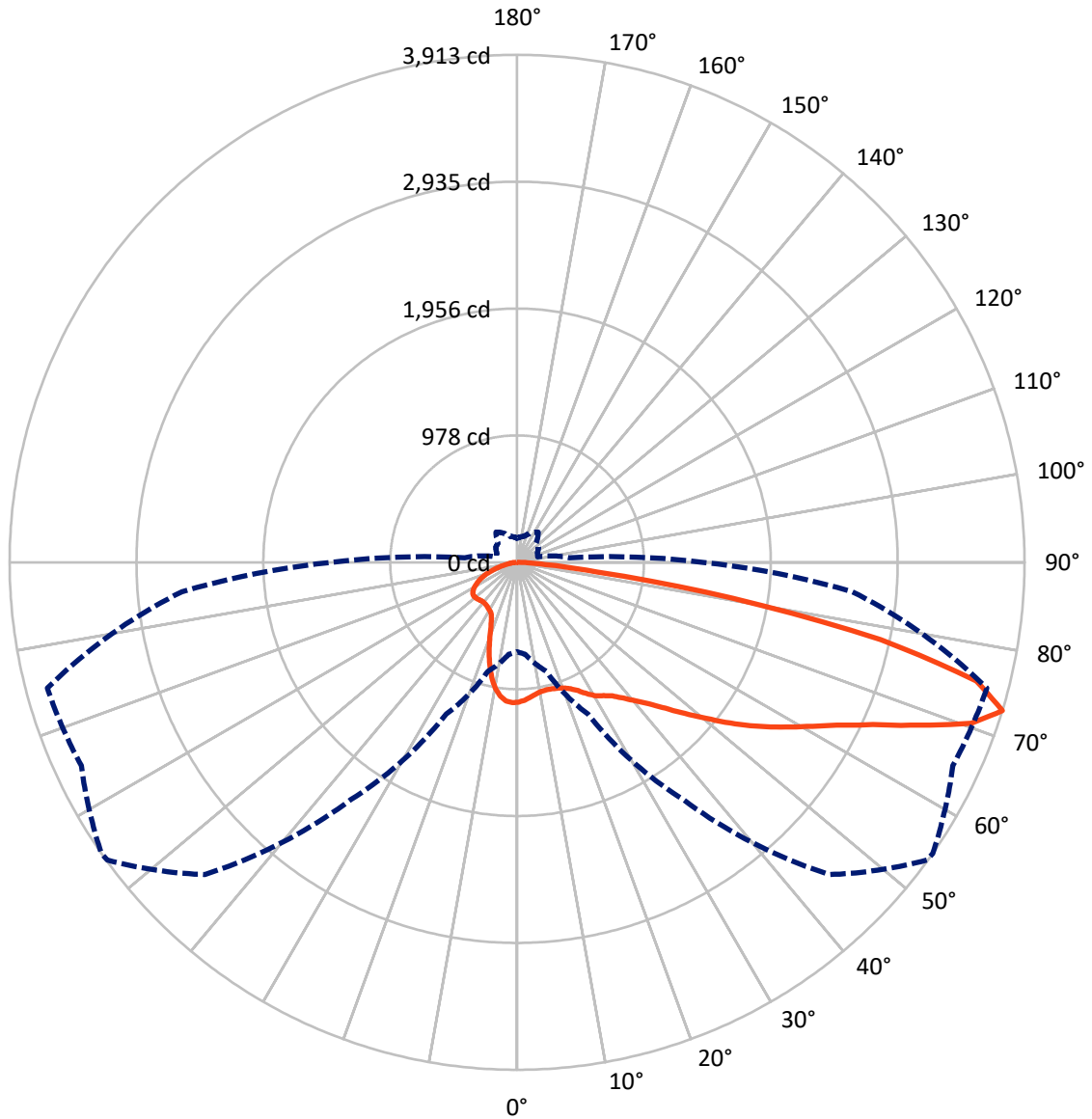
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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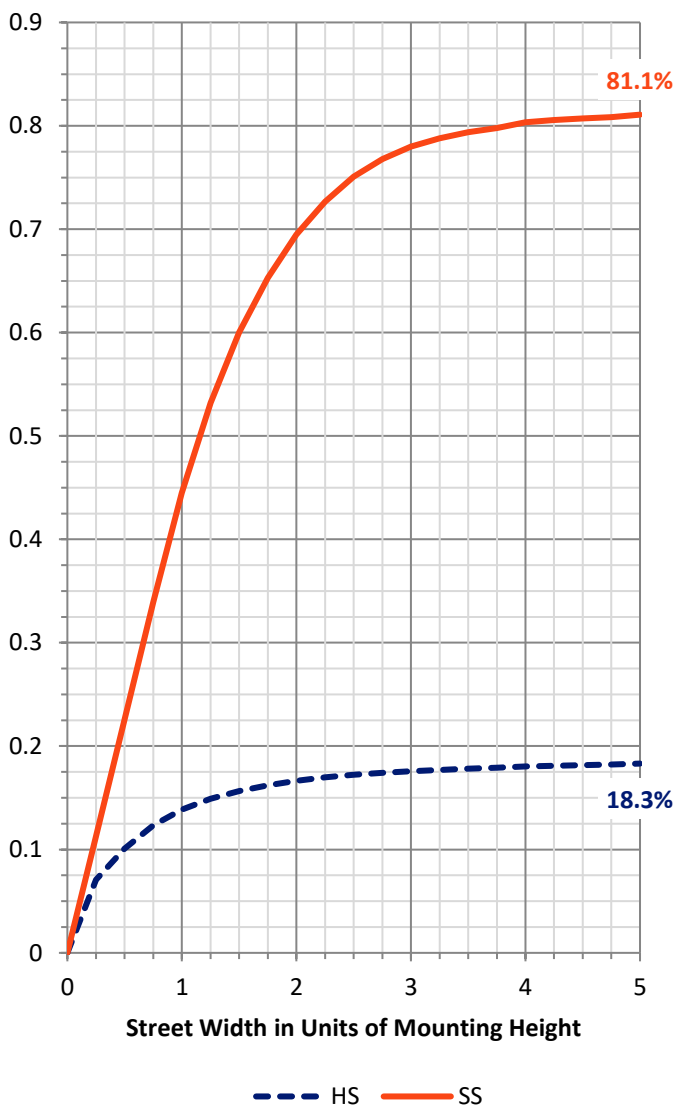
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1136.9	0.0	1136.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4980.1	0.0	4980.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	6117.0	0.0	6117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.6
10°-20°	259.9	4.2
20°-30°	428.5	7.0
30°-40°	633.9	10.4
40°-50°	884.8	14.5
50°-60°	1152.1	18.8
60°-70°	1415.9	23.1
70°-80°	1109.9	18.1
80°-90°	134.3	2.2
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°	6117.0	100.0
0°-180°	6117.0	100.0

Coefficient of Utilization

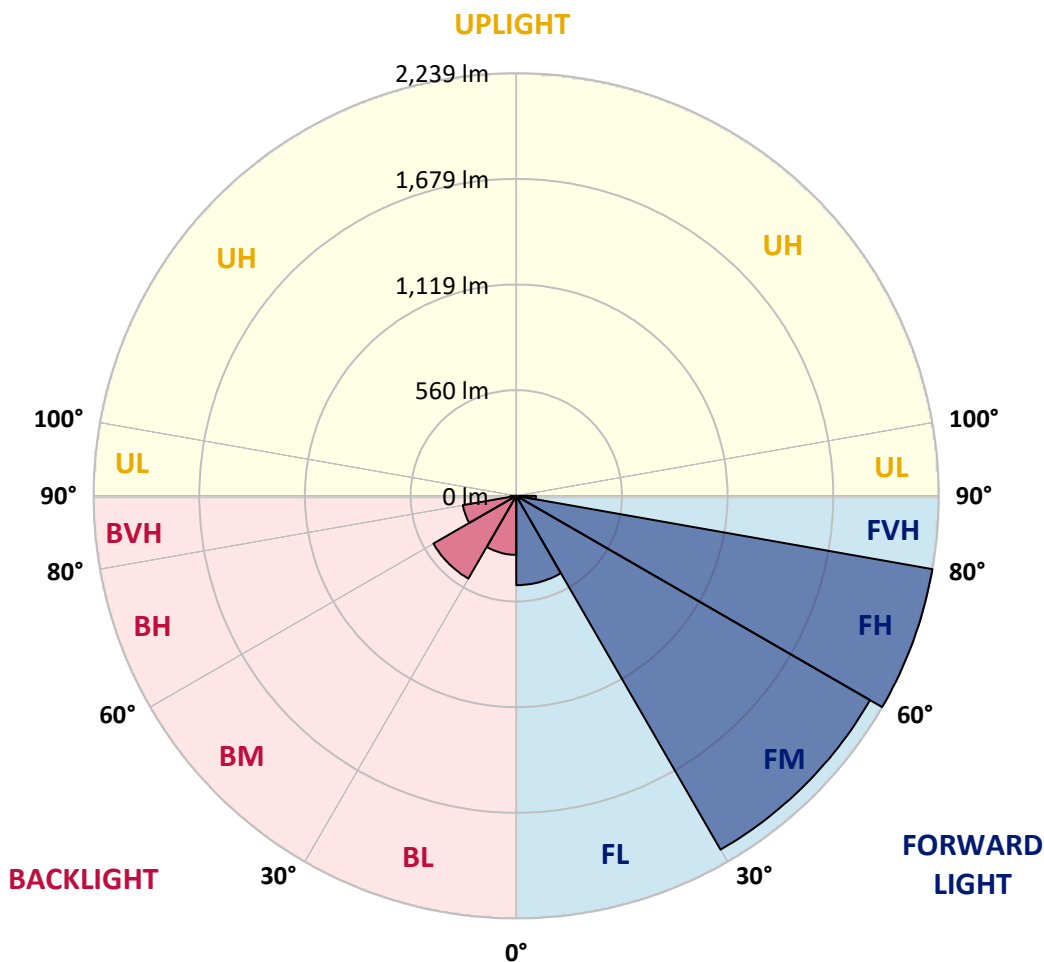


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.3	7.7			
FM (30°-60°)	2164.3	35.4			
FH (60°-80°)	2238.6	36.6			G2/5000
FVH (80°-90°)	103.8	1.7			G2/225
BL (0°-30°)	312.8	5.1	B1/500		
BM (30°-60°)	506.5	8.3	B1/1000		
BH (60°-80°)	287.1	4.7	B1/500		G1/500
BVH (80°-90°)	30.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9
2.5°	1043.8	1041.3	1044.4	1048.7	1053.5	1059.9	1063.6	1065.3	1071.7	1074.2	1079.5
5°	995.4	994.2	999.4	1006.8	1017.3	1032.2	1044.2	1046.5	1063.4	1075.4	1086.3
7.5°	960.3	960.3	966.3	975.2	987.0	1007.0	1023.9	1027.0	1055.8	1081.6	1101.8
10°	932.4	933.5	940.5	951.0	964.9	986.1	1008.7	1012.2	1053.7	1096.1	1128.3
12.5°	913.8	916.3	922.7	932.2	949.4	975.2	1003.7	1008.5	1058.0	1116.7	1160.1
15°	925.6	929.7	930.4	934.3	943.8	971.9	1006.6	1011.6	1067.3	1137.8	1196.3
17.5°	977.3	978.7	972.3	964.0	959.5	977.5	1015.3	1020.4	1078.5	1158.7	1231.0
20°	1055.8	1054.9	1041.1	1018.8	995.6	998.5	1029.5	1034.9	1093.6	1177.0	1265.7
22.5°	1154.9	1152.0	1130.8	1089.7	1050.2	1033.7	1054.5	1059.1	1116.3	1203.3	1302.9
25°	1275.2	1268.8	1240.7	1185.5	1127.5	1084.9	1092.1	1096.5	1149.4	1232.6	1337.0
27.5°	1402.0	1395.6	1359.9	1293.2	1215.9	1149.6	1144.0	1147.7	1187.0	1254.3	1362.2
30°	1534.7	1527.9	1495.2	1420.4	1309.7	1216.5	1192.3	1193.8	1213.4	1266.1	1382.8
32.5°	1667.9	1661.5	1625.0	1538.2	1411.5	1288.4	1227.3	1225.4	1229.3	1278.3	1406.2
35°	1803.1	1805.5	1762.8	1666.7	1524.4	1368.4	1268.6	1264.6	1256.0	1303.3	1439.2
37.5°	1947.7	1946.0	1890.7	1790.3	1642.3	1455.1	1327.9	1327.3	1297.3	1350.6	1491.1
40°	2044.4	2045.4	2011.7	1916.7	1761.5	1551.2	1403.9	1402.5	1363.2	1421.5	1559.1
42.5°	2082.2	2089.0	2097.7	2037.4	1886.3	1662.6	1494.6	1492.5	1455.1	1523.1	1639.0
45°	2084.9	2098.5	2152.2	2144.6	2012.8	1790.1	1610.5	1604.7	1577.9	1658.2	1734.5
47.5°	2061.7	2075.8	2165.0	2208.4	2125.8	1924.6	1746.0	1741.5	1718.4	1827.2	1837.8
50°	2011.1	2024.6	2138.6	2239.6	2218.8	2053.9	1902.2	1890.3	1877.9	2022.5	1956.0
52.5°	1916.3	1942.1	2103.3	2247.1	2274.3	2168.8	2066.5	2058.6	2065.5	2228.5	2074.3
55°	1691.7	1720.6	2012.2	2240.9	2315.5	2265.3	2230.7	2230.3	2265.7	2444.6	2201.4
57.5°	1565.9	1586.3	1826.6	2230.3	2364.2	2361.1	2393.3	2397.3	2466.1	2679.9	2334.5
60°	1494.8	1516.3	1732.6	2191.3	2439.8	2485.1	2559.3	2567.1	2669.8	2940.4	2494.6
62.5°	1430.1	1453.7	1674.4	2111.7	2528.9	2662.4	2758.0	2765.0	2885.5	3208.2	2649.3
65°	1319.6	1346.3	1589.0	2059.5	2609.9	2893.5	3010.7	3015.4	3133.2	3488.8	2767.7
67.5°	1163.4	1187.8	1428.1	1944.0	2669.8	3174.3	3346.6	3349.3	3378.9	3686.9	2828.3
70°	981.0	990.3	1198.7	1705.5	2598.9	3436.9	3714.8	3715.4	3602.8	3813.8	2818.3
72.5°	689.2	711.1	870.2	1291.1	2233.4	3404.9	3905.9	3912.9	3707.0	3749.7	2593.1
75°	422.7	445.9	545.9	782.4	1416.9	2677.8	3608.8	3657.6	3511.7	3343.3	2118.4
77.5°	282.6	291.3	356.2	456.2	641.9	1540.7	2774.5	2866.3	2917.3	2438.2	1354.7
80°	157.6	174.2	236.2	283.5	285.5	612.2	1663.6	1685.1	1623.1	970.9	418.0
82.5°	83.5	92.6	157.6	166.5	155.8	205.0	620.0	620.7	518.6	260.3	124.2
85°	64.7	72.3	108.1	101.7	79.5	90.9	204.5	215.7	176.4	106.6	40.5
87.5°	32.2	40.1	73.3	64.5	31.2	26.0	73.1	78.1	69.6	41.7	14.7
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°	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9	1078.9
2.5°	1081.6	1083.5	1085.7	1083.2	1082.4	1079.1	1073.5	1072.3	1069.4	1069.6	1071.3
5°	1091.1	1094.2	1093.0	1083.5	1072.1	1056.2	1039.7	1025.6	1016.3	1015.7	1015.1
7.5°	1109.3	1111.3	1101.6	1074.6	1042.8	1006.0	971.3	940.9	922.5	918.0	916.9
10°	1137.8	1137.4	1110.7	1056.2	992.8	927.1	871.3	829.1	804.5	797.3	795.4
12.5°	1169.6	1164.9	1113.8	1022.7	922.1	831.0	760.3	713.4	687.8	679.5	677.5
15°	1202.5	1190.7	1106.2	972.7	835.3	727.5	653.3	609.9	596.1	591.5	590.7
17.5°	1233.0	1210.3	1084.3	904.9	736.4	624.4	566.5	549.2	552.5	558.5	558.7
20°	1263.0	1223.5	1049.2	819.4	632.0	539.5	519.8	532.6	548.3	560.5	562.2
22.5°	1292.5	1232.8	1003.9	720.6	538.6	491.7	505.6	528.9	546.9	560.1	562.4
25°	1317.3	1235.1	941.5	615.3	473.8	473.8	498.8	520.9	538.6	551.6	553.9
27.5°	1326.4	1219.8	853.5	517.8	441.1	465.5	489.2	507.6	522.7	536.6	539.0
30°	1329.9	1191.5	751.8	439.5	427.7	456.6	476.4	492.1	506.4	519.4	521.7
32.5°	1330.6	1157.4	644.0	395.0	418.4	447.3	460.5	474.4	489.7	494.8	495.7
35°	1334.5	1117.1	530.4	372.3	409.7	438.6	449.2	459.1	434.3	436.1	437.8
37.5°	1345.8	1077.3	435.3	359.5	404.1	434.1	446.7	410.7	391.3	386.8	386.2
40°	1367.1	1034.7	364.9	349.2	402.1	436.4	430.8	383.5	350.0	325.0	321.3
42.5°	1396.7	988.8	319.8	342.3	403.5	447.3	408.7	357.2	301.6	285.5	283.5
45°	1429.9	940.7	295.4	337.6	408.5	455.8	404.1	322.3	279.1	266.9	265.9
47.5°	1462.2	881.8	282.8	335.5	415.3	449.0	384.9	311.6	268.4	262.0	262.6
50°	1499.1	828.7	275.2	333.3	421.3	444.6	363.2	306.0	264.3	272.1	280.4
52.5°	1530.3	773.7	268.4	328.7	423.5	437.0	357.6	307.0	264.3	279.3	287.2
55°	1567.3	732.2	260.5	319.2	419.2	415.3	353.7	313.2	267.4	257.8	258.7
57.5°	1615.1	718.6	251.9	304.3	404.7	383.7	351.9	319.2	265.5	259.5	261.6
60°	1681.2	733.0	248.3	284.9	382.2	358.9	352.1	316.1	252.5	242.1	242.4
62.5°	1744.2	749.2	248.1	272.7	354.5	336.8	347.3	306.0	245.9	239.9	242.1
65°	1764.8	732.8	238.2	259.1	323.3	310.3	338.6	295.2	240.9	231.8	231.4
67.5°	1737.2	682.2	218.2	237.0	287.6	279.5	327.3	282.4	233.1	225.6	224.4
70°	1654.9	569.2	193.4	207.8	246.9	244.8	309.3	267.6	222.5	216.1	210.7
72.5°	1433.7	405.6	163.0	172.9	201.0	207.6	284.5	248.1	207.6	193.8	185.5
75°	1177.5	300.2	133.9	135.9	152.7	170.7	250.4	225.4	190.1	166.5	160.1
77.5°	721.1	183.7	106.6	107.4	109.5	136.2	206.2	200.0	167.8	138.8	134.3
80°	233.5	100.2	77.1	81.0	74.8	99.8	159.5	170.2	144.0	116.1	111.2
82.5°	88.8	58.5	52.1	54.8	51.9	66.9	116.3	136.4	118.0	95.5	77.7
85°	43.0	33.1	30.8	34.5	32.0	34.3	74.4	100.4	89.5	62.2	57.9
87.5°	15.3	14.7	11.8	15.9	13.6	12.2	22.7	50.6	59.1	42.8	38.2
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)