

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: P319206

Luminaire Tested: **GAN-SA2C-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11420 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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



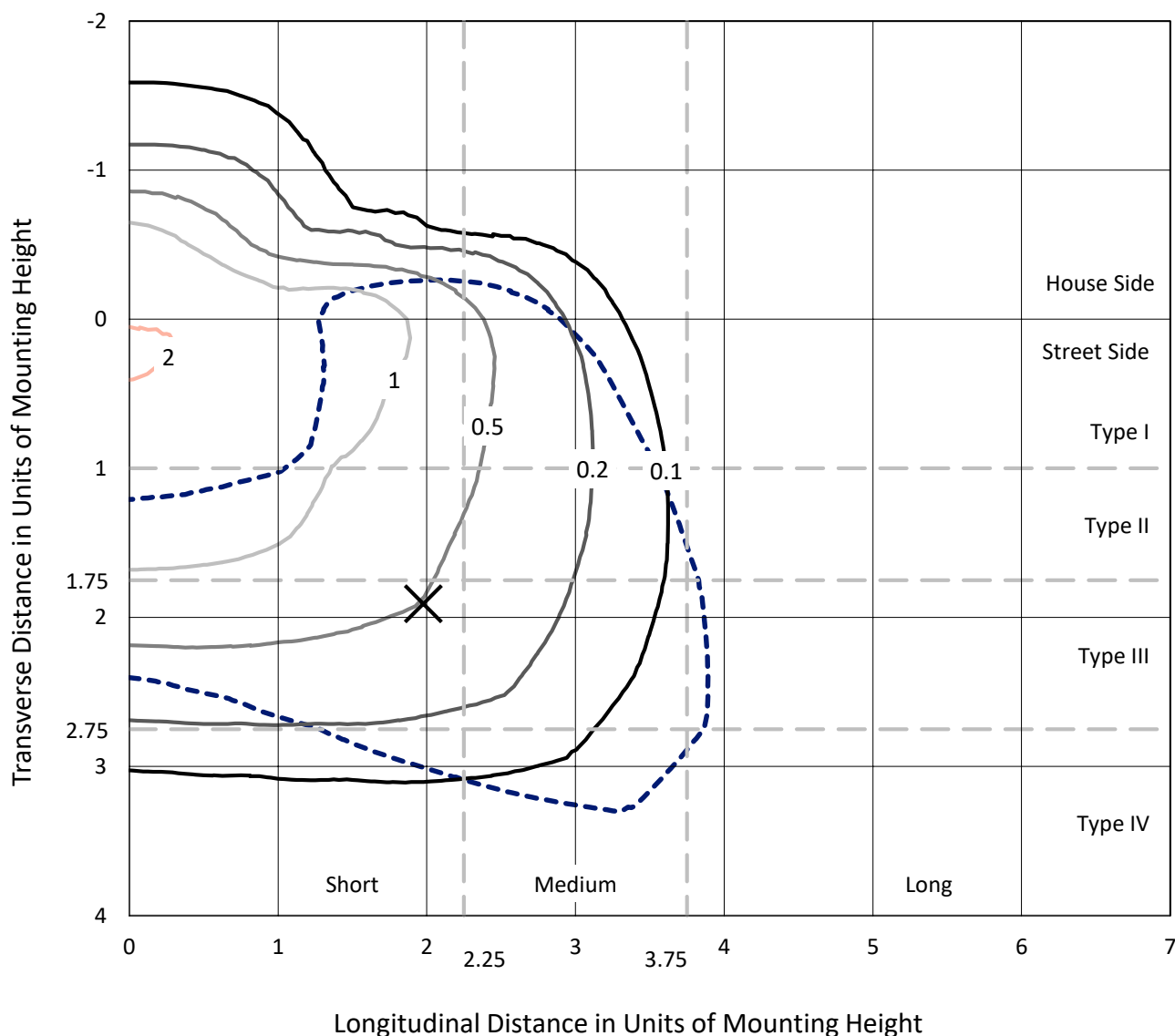
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

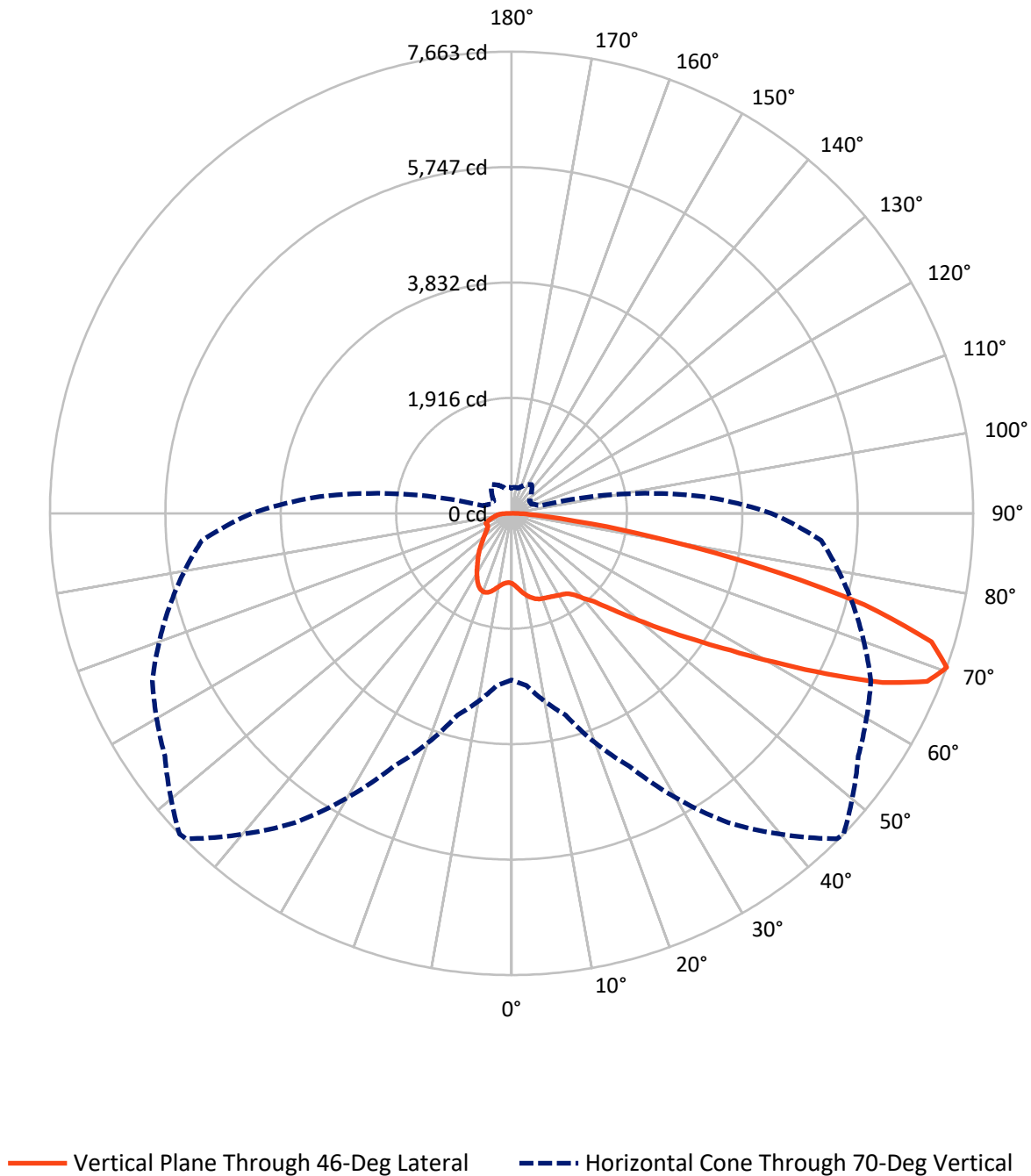


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2617.4	0.0	2617.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8802.6	0.0	8802.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	11420.0	0.0	11420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.0
10°-20°	395.2	3.5
20°-30°	658.9	5.8
30°-40°	935.0	8.2
40°-50°	1375.3	12.0
50°-60°	2329.1	20.4
60°-70°	3306.2	29.0
70°-80°	2008.5	17.6
80°-90°	293.1	2.6
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°	11420.0	100.0
0°-180°	11420.0	100.0

Coefficient of Utilization



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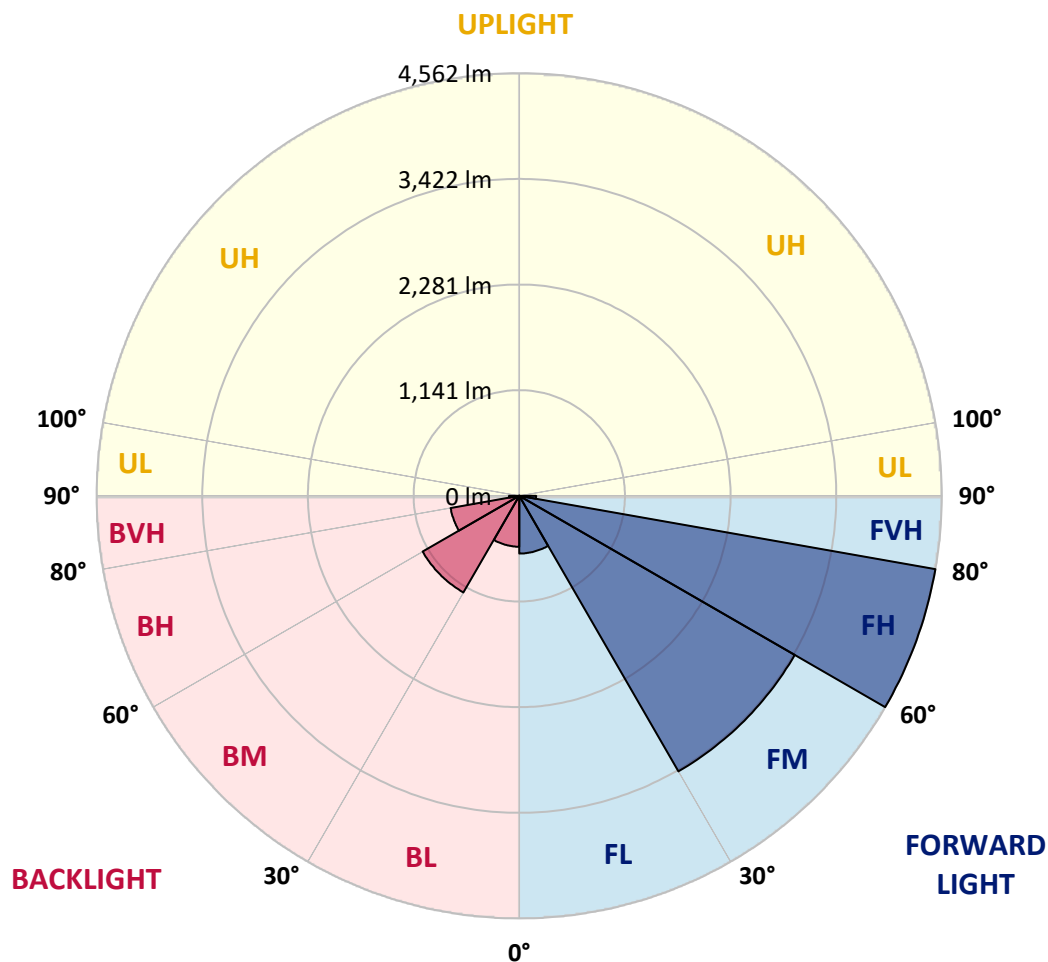
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	623.1	5.5			
FM	(30°-60°)	3434.6	30.1			
FH	(60°-80°)	4562.2	39.9			G2/5000
FVH	(80°-90°)	182.6	1.6			G2/225
BL	(0°-30°)	549.5	4.8	B2/1000		
BM	(30°-60°)	1204.9	10.6	B2/2500		
BH	(60°-80°)	752.5	6.6	B2/1000		G2/1000
BVH	(80°-90°)	110.5	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5
2.5°	1221.7	1222.5	1224.1	1220.1	1209.2	1206.1	1204.9	1193.6	1186.1	1175.2	1165.8
5°	1319.4	1320.2	1317.8	1306.9	1282.7	1264.7	1263.1	1237.3	1213.9	1188.9	1170.1
7.5°	1421.4	1422.6	1415.2	1394.4	1360.4	1329.2	1327.2	1292.1	1256.5	1218.6	1190.4
10°	1511.7	1507.0	1494.9	1466.0	1425.7	1387.4	1385.9	1349.1	1308.1	1262.4	1224.8
12.5°	1571.9	1568.0	1552.3	1517.2	1473.0	1437.8	1434.7	1400.7	1360.8	1310.8	1265.9
15°	1605.1	1607.8	1586.7	1546.9	1503.9	1474.2	1471.4	1447.2	1411.6	1361.2	1309.6
17.5°	1609.4	1611.7	1591.4	1552.0	1516.8	1496.5	1495.3	1479.3	1453.5	1405.0	1351.1
20°	1584.4	1586.0	1569.1	1536.7	1513.7	1507.4	1507.0	1500.0	1480.8	1437.8	1385.5
22.5°	1548.0	1549.2	1537.1	1513.7	1505.8	1515.6	1518.3	1515.6	1501.9	1461.7	1412.4
25°	1539.1	1538.3	1525.8	1501.9	1508.6	1529.3	1532.8	1534.0	1524.6	1489.4	1446.8
27.5°	1582.4	1579.7	1555.9	1517.6	1521.9	1546.9	1551.6	1562.9	1557.0	1526.2	1485.9
30°	1707.9	1703.2	1654.3	1577.0	1555.9	1568.8	1574.6	1592.6	1593.8	1568.0	1537.9
32.5°	1919.7	1913.9	1826.3	1688.0	1613.3	1591.0	1596.5	1623.5	1637.9	1618.0	1585.6
35°	2187.4	2180.8	2065.9	1876.7	1709.5	1633.6	1637.5	1659.0	1688.0	1659.8	1616.8
37.5°	2466.5	2450.4	2339.8	2098.7	1862.3	1724.7	1724.7	1727.4	1741.1	1682.5	1653.6
40°	2744.0	2727.9	2627.9	2359.8	2060.0	1868.1	1859.1	1798.6	1787.6	1737.2	1727.4
42.5°	3001.9	2997.2	2938.2	2654.8	2292.2	2009.2	1996.7	1893.9	1896.3	1865.0	1865.4
45°	3276.3	3276.3	3228.2	2952.7	2562.6	2235.9	2223.4	2072.1	2095.6	2081.1	2115.9
47.5°	3500.2	3507.2	3500.6	3263.0	2877.2	2523.9	2501.3	2319.1	2384.8	2434.4	2535.6
50°	3728.8	3739.8	3740.9	3603.4	3257.5	2866.3	2840.5	2647.0	2793.6	2935.8	3134.8
52.5°	4060.6	4085.3	3987.2	3943.0	3723.4	3272.7	3247.3	3068.7	3313.4	3513.1	3855.8
55°	4368.2	4346.7	4276.8	4304.1	4222.0	3735.5	3716.3	3559.6	3892.6	4152.1	4597.2
57.5°	4534.7	4533.1	4603.5	4720.7	4759.8	4306.1	4290.0	4137.6	4545.6	4740.7	5293.3
60°	4730.1	4732.8	4907.1	5173.3	5334.3	5016.6	5009.5	4893.9	5179.9	5290.2	5839.3
62.5°	4757.5	4806.7	5106.9	5564.9	5872.1	5846.7	5862.3	5575.1	5747.4	5728.7	6246.9
65°	4442.9	4507.7	5051.0	5683.3	6406.7	6754.6	6769.0	6260.2	6194.9	6103.5	6392.7
67.5°	3798.0	3894.1	4484.3	5425.8	6583.0	7425.6	7445.9	6791.3	6566.2	6230.5	6041.7
70°	2763.9	2870.6	3464.6	4634.0	6268.8	7640.2	7663.2	7026.2	6580.3	5869.0	5157.7
72.5°	1669.6	1753.2	2242.9	3411.5	5290.9	7249.3	7290.4	6728.4	6007.7	4971.2	3808.6
75°	733.2	787.9	1084.5	1965.8	3787.8	5997.9	6049.1	5759.1	4881.4	3612.8	2251.1
77.5°	312.3	327.9	444.8	853.9	2141.3	4098.5	4168.9	4208.0	3311.8	1965.8	951.3
80°	194.6	200.9	251.7	386.5	1002.1	2301.9	2377.8	2475.9	1644.6	722.6	332.2
82.5°	118.4	125.5	167.3	233.7	521.7	1043.5	1079.8	1149.0	638.2	312.3	172.0
85°	71.1	76.2	102.4	147.7	297.0	410.4	410.0	453.4	300.5	200.9	90.7
87.5°	34.0	37.9	54.7	76.6	149.7	154.0	144.2	163.4	182.5	131.7	45.7
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°	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5	1163.5
2.5°	1162.7	1161.1	1156.0	1152.1	1151.4	1149.0	1147.1	1148.2	1149.8	1150.2	1150.2
5°	1162.3	1158.0	1151.4	1148.6	1152.1	1156.8	1162.7	1170.5	1175.2	1178.7	1181.1
7.5°	1181.1	1172.9	1165.4	1163.9	1170.9	1183.4	1196.7	1213.1	1224.4	1232.3	1233.8
10°	1212.3	1202.2	1194.7	1196.3	1208.8	1226.8	1245.5	1266.7	1283.8	1294.4	1295.2
12.5°	1248.3	1238.5	1231.5	1238.1	1258.8	1280.7	1300.3	1318.6	1334.3	1344.8	1344.8
15°	1289.7	1282.7	1274.5	1289.7	1317.8	1337.4	1345.6	1354.6	1363.2	1371.0	1369.4
17.5°	1329.6	1322.9	1318.6	1336.6	1365.9	1374.9	1369.4	1362.8	1362.8	1367.1	1367.9
20°	1364.0	1358.1	1360.8	1378.4	1393.7	1384.3	1364.0	1342.9	1334.3	1336.6	1339.0
22.5°	1394.1	1391.3	1399.5	1407.7	1396.8	1364.0	1326.4	1297.9	1287.4	1286.6	1287.4
25°	1429.2	1428.8	1439.0	1424.2	1375.7	1315.1	1264.7	1236.9	1231.1	1235.8	1243.6
27.5°	1473.0	1477.3	1482.4	1428.1	1332.7	1241.2	1190.1	1170.9	1176.8	1188.1	1195.5
30°	1528.9	1540.6	1529.7	1418.3	1271.0	1156.8	1108.0	1102.5	1118.5	1134.6	1142.4
32.5°	1583.2	1601.6	1575.0	1392.9	1191.2	1067.3	1029.4	1027.9	1047.4	1063.0	1074.0
35°	1627.0	1663.3	1609.0	1342.5	1099.0	984.9	957.1	946.6	953.6	972.0	984.5
37.5°	1684.0	1744.6	1632.5	1265.5	998.9	916.9	884.4	860.2	853.9	861.4	867.6
40°	1788.4	1868.5	1643.4	1158.0	901.2	848.9	816.0	780.5	755.8	737.9	738.3
42.5°	1958.8	2029.9	1636.4	1027.5	811.0	782.4	745.3	704.3	664.4	623.8	620.6
45°	2235.5	2269.9	1615.3	889.1	731.6	712.9	678.1	637.0	583.9	537.8	533.5
47.5°	2678.3	2602.1	1582.4	768.4	661.7	653.8	621.8	574.5	518.2	481.1	478.0
50°	3282.1	3081.6	1566.4	672.2	599.9	602.3	576.1	526.0	472.9	445.5	442.4
52.5°	4004.4	3640.1	1597.3	598.0	550.3	558.5	538.9	492.0	447.5	426.0	422.9
55°	4753.6	4218.5	1630.5	544.0	503.4	519.4	512.8	474.1	433.8	413.9	411.1
57.5°	5394.9	4650.4	1564.1	500.3	461.6	486.6	492.4	462.7	426.8	408.8	405.7
60°	5798.6	4824.3	1389.8	459.2	428.3	460.4	480.7	459.6	429.5	427.9	425.6
62.5°	5990.1	4809.1	1128.3	426.8	407.6	449.1	489.3	477.2	460.8	474.8	476.0
65°	5904.1	4579.3	840.3	405.3	392.8	453.4	515.1	510.4	469.8	483.8	485.8
67.5°	5338.2	4030.9	622.2	386.5	376.4	465.5	562.0	521.4	452.2	462.3	456.1
70°	4314.7	3195.7	479.9	365.4	359.6	463.9	583.1	514.7	433.0	435.4	418.6
72.5°	2975.3	2179.2	390.4	345.9	335.3	422.9	568.3	498.3	417.0	399.0	376.8
75°	1618.0	1169.7	331.8	325.6	292.7	371.3	540.9	486.6	402.5	378.7	366.2
77.5°	636.6	485.4	288.0	297.8	256.0	327.9	510.4	464.3	382.6	351.3	345.1
80°	259.9	247.8	238.8	257.6	220.0	286.9	473.7	438.1	358.8	325.9	313.4
82.5°	147.3	154.0	185.6	203.2	178.6	264.2	456.1	417.0	330.2	291.9	277.1
85°	75.4	90.3	129.4	145.8	131.3	224.7	420.1	365.0	265.0	223.5	224.7
87.5°	36.3	50.4	81.7	91.5	85.2	162.6	313.8	264.6	206.4	163.4	158.3
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)