

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: P317349

Luminaire Tested: **GAN-SA5A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20293 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

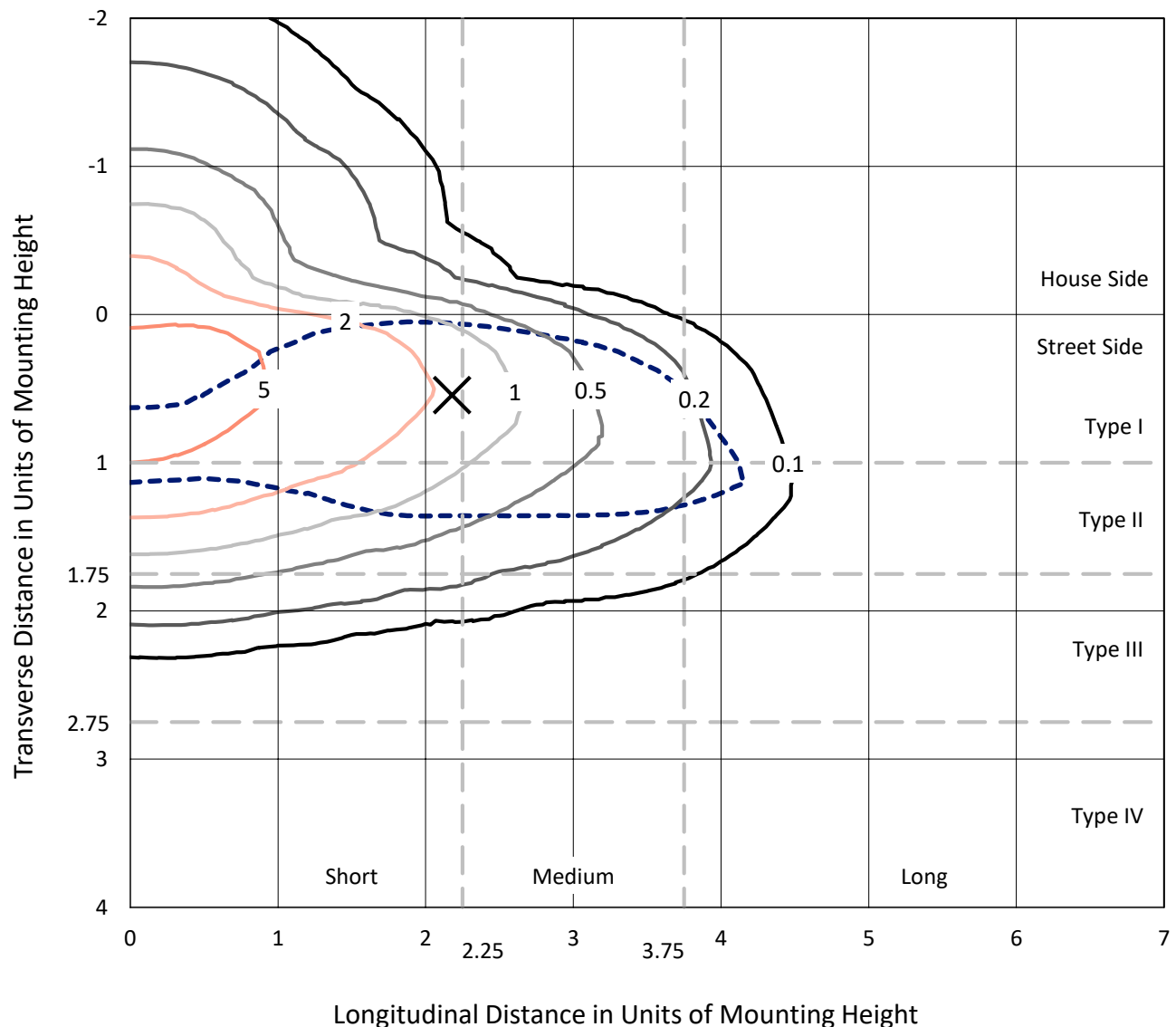
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

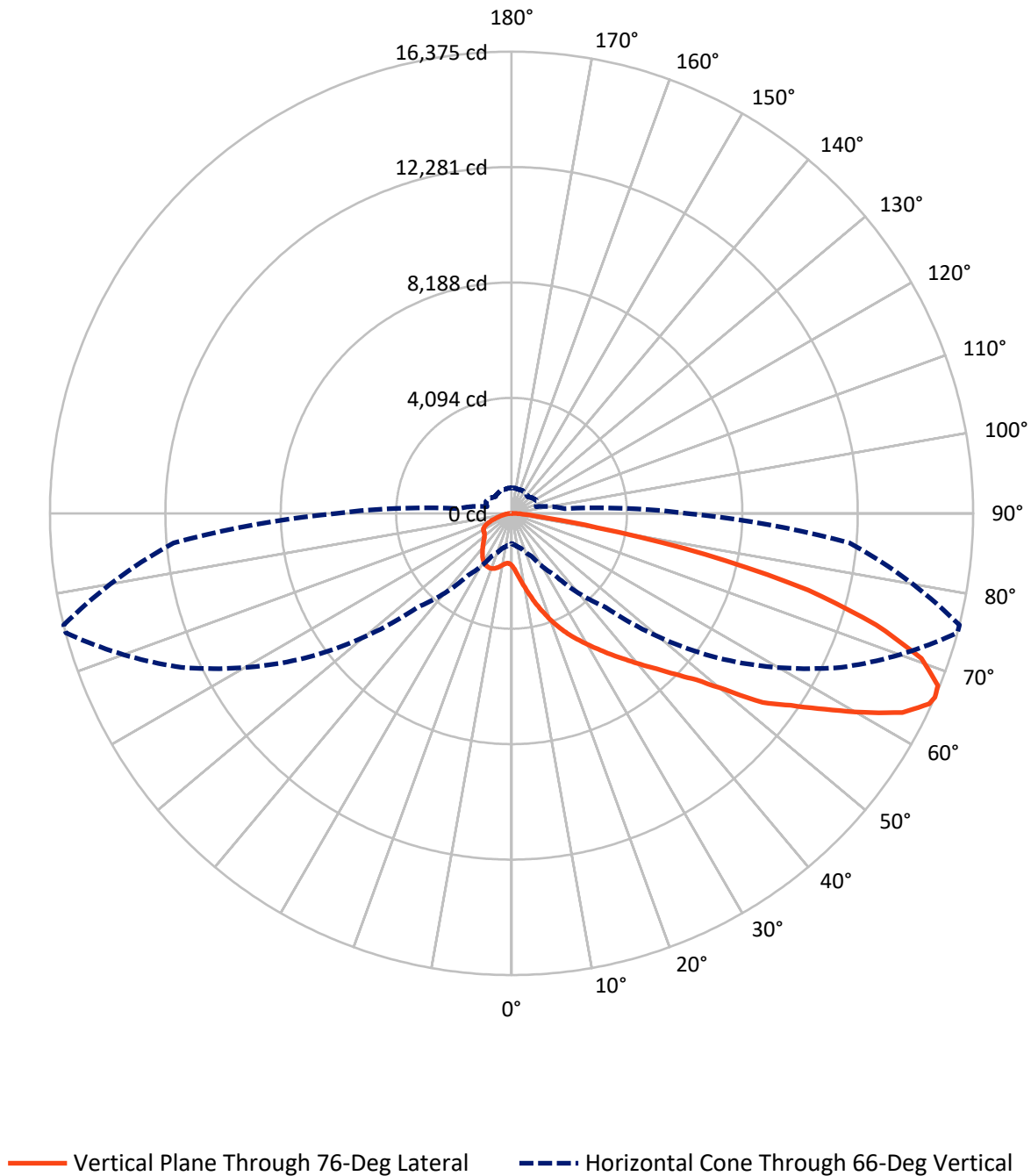
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3414.6	0.0	3414.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	16878.4	0.0	16878.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	20293.0	0.0	20293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	1.1
10°-20°	885.0	4.4
20°-30°	1719.7	8.5
30°-40°	2806.9	13.8
40°-50°	3835.0	18.9
50°-60°	4467.0	22.0
60°-70°	4004.7	19.7
70°-80°	2023.8	10.0
80°-90°	326.8	1.6
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°	20293.0	100.0
0°-180°	20293.0	100.0

Coefficient of Utilization



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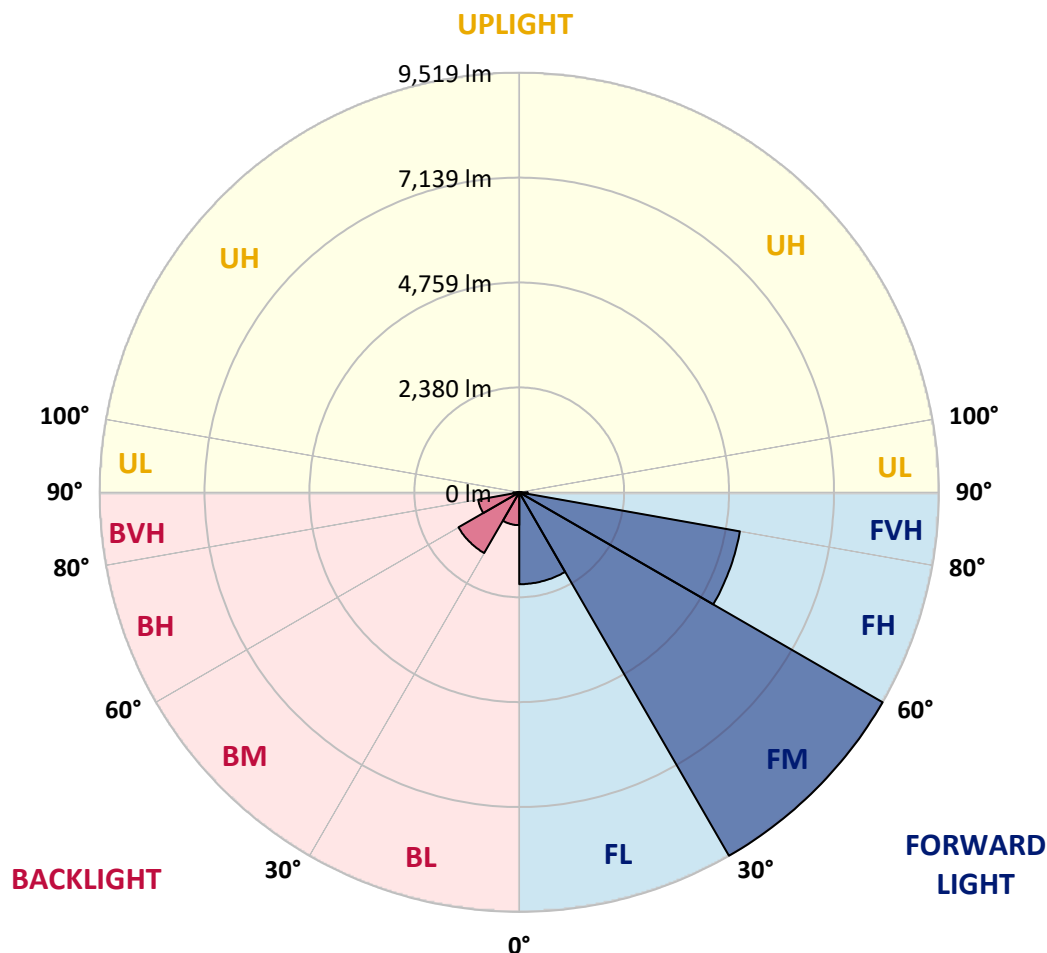
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2084.0	10.3			
FM	(30°-60°)	9518.8	46.9			
FH	(60°-80°)	5082.5	25.0			G3/7500
FVH	(80°-90°)	193.0	1.0			G2/225
BL	(0°-30°)	744.7	3.7	B2/1000		
BM	(30°-60°)	1590.0	7.8	B2/2500		
BH	(60°-80°)	946.0	4.7	B2/1000		G2/1000
BVH	(80°-90°)	133.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2
2.5°	2460.2	2422.9	2419.5	2365.1	2352.7	2248.7	2172.2	2092.3	2001.3	1983.4	1911.8
5°	3160.1	3156.7	3109.1	3020.2	2950.7	2772.9	2597.2	2411.2	2207.3	2174.2	2013.0
7.5°	3789.8	3784.3	3747.8	3652.0	3551.4	3333.0	3082.3	2797.0	2466.4	2417.4	2150.1
10°	4267.9	4265.8	4253.4	4183.2	4097.7	3888.3	3611.3	3222.1	2767.4	2700.6	2321.7
12.5°	4637.2	4641.3	4649.6	4624.8	4584.1	4405.7	4121.8	3672.7	3088.5	3022.3	2512.5
15°	4887.2	4899.6	4942.3	4977.5	4998.8	4889.3	4614.4	4133.6	3448.1	3368.8	2724.0
17.5°	5013.3	5027.1	5100.8	5206.9	5304.7	5293.7	5075.3	4573.1	3793.2	3716.8	2951.4
20°	5122.2	5132.5	5215.2	5342.6	5515.5	5592.0	5469.4	4996.1	4171.4	4080.5	3192.5
22.5°	5437.7	5450.8	5475.6	5547.9	5700.9	5841.4	5782.1	5396.4	4518.0	4433.2	3421.2
25°	6046.7	6062.5	6008.8	5947.5	5976.4	6074.3	6085.3	5761.5	4869.3	4773.6	3667.1
27.5°	6780.4	6803.1	6711.5	6553.7	6416.0	6378.1	6365.0	6060.5	5204.8	5093.9	3910.3
30°	7499.0	7538.2	7419.0	7214.4	6961.6	6783.8	6652.3	6353.3	5535.5	5429.4	4139.8
32.5°	8201.0	8185.1	8012.2	7812.4	7516.2	7293.7	6975.4	6667.4	5907.5	5785.6	4367.8
35°	8681.8	8687.3	8526.8	8289.8	8007.4	7836.5	7408.0	7006.4	6287.1	6174.8	4626.8
37.5°	9091.1	9065.6	8883.7	8662.5	8419.4	8346.3	7914.4	7379.8	6698.4	6575.8	4902.4
40°	9227.5	9197.8	9078.7	8919.5	8724.5	8718.3	8473.1	7802.8	7163.4	7042.2	5213.1
42.5°	9144.8	9106.9	9058.0	9014.6	8954.6	8982.2	8998.1	8298.8	7674.6	7538.9	5572.7
45°	8839.6	8782.4	8816.9	8911.2	9041.5	9197.2	9472.0	8847.9	8247.1	8133.5	5995.0
47.5°	8370.4	8318.8	8426.2	8628.1	8982.2	9376.3	9920.5	9454.1	8930.5	8817.6	6596.5
50°	7710.5	7725.6	7879.2	8246.4	8781.7	9458.9	10473.0	10256.7	9924.0	9818.6	7417.0
52.5°	6627.5	6630.2	7062.9	7665.7	8426.2	9416.2	10779.6	11282.5	11280.5	11153.0	8198.2
55°	5621.6	5682.9	6025.3	6826.6	7850.3	9245.4	10993.9	11781.3	12171.2	12021.7	8926.4
57.5°	4639.2	4675.0	4999.5	5804.2	7028.4	8790.0	11213.6	12380.0	13197.7	13103.4	9831.7
60°	3521.8	3576.9	3912.4	4655.8	5977.1	7981.9	11234.3	13004.8	14424.7	14329.6	10842.3
62.5°	2285.9	2380.9	2695.1	3391.6	4705.4	6819.7	10754.8	13413.4	15587.6	15553.9	11739.3
65°	1313.8	1385.4	1603.8	2141.2	3246.2	5360.5	9614.6	13256.3	16303.4	16284.1	12074.8
66°	1073.3	1118.1	1285.5	1673.4	2678.5	4707.4	8951.9	12924.9	16374.4	16375.1	12036.2
67.5°	858.4	878.4	953.5	1198.0	1976.5	3731.2	7767.6	12194.0	16286.2	16310.3	11787.5
70°	710.3	720.6	744.0	803.3	1078.9	2250.0	5513.5	10294.6	15400.9	15419.5	10816.8
72.5°	637.3	643.5	652.4	660.7	761.3	1257.3	3367.5	8235.4	13502.9	13527.0	9337.7
75°	577.3	580.8	579.4	580.1	638.6	801.2	1740.2	6148.7	10918.1	10869.9	7153.1
77.5°	507.0	510.5	503.6	505.0	564.9	615.9	866.0	4304.4	7368.1	7027.7	4030.2
80°	428.5	431.3	428.5	433.3	491.9	465.0	503.6	2421.6	3257.9	3081.6	1433.0
82.5°	323.8	335.5	343.8	363.1	405.1	330.7	336.9	943.1	992.1	944.5	439.5
85°	141.9	172.9	259.0	277.6	304.5	198.4	221.1	384.4	403.7	391.3	159.8
87.5°	37.2	40.6	128.1	161.2	168.8	89.6	115.1	175.0	184.6	175.0	53.0
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°	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2
2.5°	1873.9	1840.1	1779.5	1725.8	1685.1	1657.6	1630.0	1616.2	1608.0	1599.7	1601.1
5°	1933.8	1865.6	1761.6	1687.9	1646.5	1620.4	1606.6	1601.1	1597.6	1589.4	1589.4
7.5°	2024.1	1927.6	1784.3	1708.5	1676.2	1656.2	1647.9	1645.2	1641.0	1631.4	1632.8
10°	2137.7	2002.7	1831.9	1758.1	1728.5	1706.5	1694.8	1690.6	1683.0	1672.0	1673.4
12.5°	2271.4	2095.7	1894.5	1817.4	1781.6	1751.9	1732.6	1720.9	1707.8	1693.4	1694.1
15°	2417.4	2197.0	1962.1	1870.4	1821.5	1780.2	1749.2	1729.2	1708.5	1690.6	1689.9
17.5°	2565.6	2294.8	2013.7	1899.4	1833.2	1778.8	1736.8	1705.8	1680.3	1658.2	1656.2
20°	2725.4	2383.0	2042.7	1896.6	1811.2	1746.4	1690.6	1652.0	1623.8	1601.8	1598.3
22.5°	2888.0	2465.7	2047.5	1868.4	1762.3	1683.0	1624.5	1581.8	1552.8	1530.1	1521.8
25°	3036.8	2529.7	2027.5	1813.9	1694.1	1608.6	1551.5	1508.1	1484.6	1457.8	1449.5
27.5°	3172.5	2574.5	1987.5	1744.4	1617.6	1533.5	1479.8	1442.6	1417.1	1396.5	1389.6
30°	3294.4	2598.6	1922.1	1661.7	1539.1	1462.6	1417.1	1391.6	1369.6	1343.4	1338.6
32.5°	3410.2	2598.6	1838.1	1571.4	1461.2	1399.9	1373.0	1357.2	1332.4	1306.9	1300.0
35°	3525.9	2582.8	1738.8	1477.1	1389.6	1355.1	1353.7	1335.1	1297.2	1262.8	1253.8
37.5°	3647.9	2550.4	1627.2	1388.9	1331.0	1335.1	1346.8	1305.5	1251.8	1202.9	1189.8
40°	3785.6	2505.6	1511.5	1312.4	1282.1	1326.2	1328.2	1262.8	1158.1	1113.3	1101.6
42.5°	3947.5	2460.8	1404.0	1244.9	1243.5	1299.3	1293.1	1170.5	1107.8	1085.1	1078.9
45°	4160.4	2435.4	1302.1	1180.8	1213.2	1255.9	1233.2	1119.5	1093.3	1080.2	1074.7
47.5°	4495.9	2448.4	1208.4	1129.8	1182.9	1212.5	1121.6	1098.8	1080.2	1064.4	1058.9
50°	4916.2	2440.9	1132.6	1094.7	1148.4	1167.0	1071.3	1072.0	1062.3	1044.4	1036.1
52.5°	5232.4	2381.6	1083.7	1074.7	1118.1	1086.4	1039.6	1045.8	1041.0	1014.8	1005.8
55°	5537.6	2330.6	1058.9	1067.1	1096.1	985.9	1002.4	1017.5	1012.7	987.2	983.1
57.5°	5917.2	2321.0	1043.7	1069.2	1077.5	935.6	966.6	986.5	983.1	972.1	970.0
60°	6382.2	2323.7	1029.9	1072.7	1056.8	898.4	932.8	958.3	960.4	958.3	956.9
62.5°	6637.8	2248.7	995.5	1063.0	1020.3	866.0	897.7	934.9	935.6	939.7	939.0
65°	6420.8	2024.1	931.4	1029.3	959.0	839.1	867.4	908.0	897.7	916.3	916.3
66°	6210.0	1894.5	899.7	1007.2	932.8	828.8	857.7	894.2	881.1	906.6	906.6
67.5°	5779.4	1676.2	842.6	960.4	895.6	814.3	846.7	871.5	853.6	891.5	888.7
70°	4992.6	1296.6	727.5	854.3	834.3	793.0	831.5	826.0	799.8	857.7	846.7
72.5°	4209.3	985.2	584.2	715.1	741.3	766.1	810.2	768.2	735.1	775.7	751.6
75°	3266.2	740.6	461.6	556.0	626.2	724.1	784.7	701.3	653.8	649.7	636.6
77.5°	1765.7	508.4	365.8	424.4	497.4	671.7	767.5	629.7	558.0	541.5	531.2
80°	699.3	330.7	265.9	321.7	347.9	595.9	726.1	546.3	460.2	443.7	427.8
82.5°	288.7	195.7	171.5	215.6	226.7	509.8	651.7	447.8	355.5	491.9	522.2
85°	124.0	107.5	102.0	111.6	128.1	357.6	518.8	341.7	383.7	342.4	272.1
87.5°	37.2	45.5	43.4	42.7	46.8	85.4	276.3	190.1	281.8	106.8	79.9
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)