

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: P318886

Luminaire Tested: **GAN-SA2C-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 11569 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

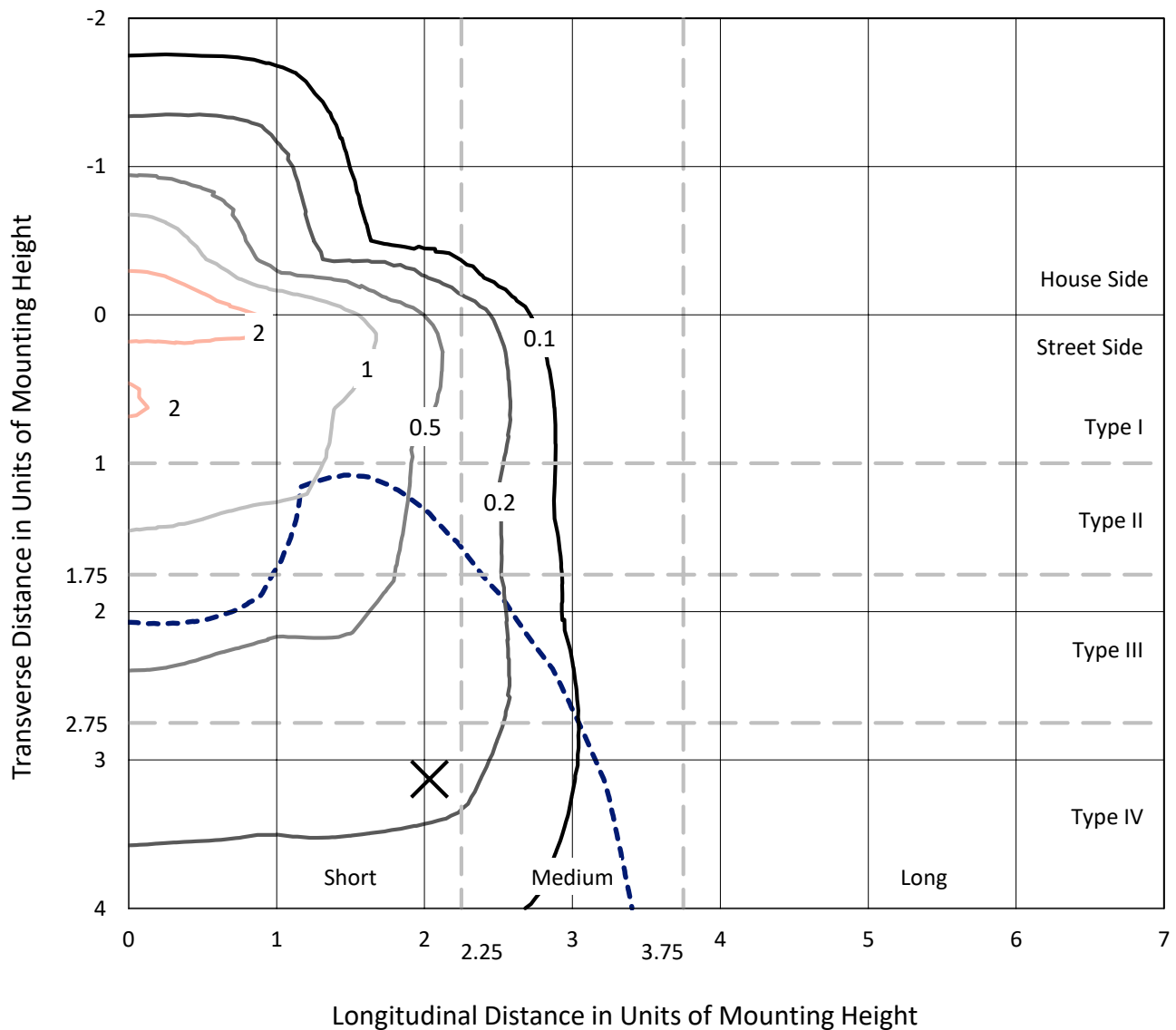
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

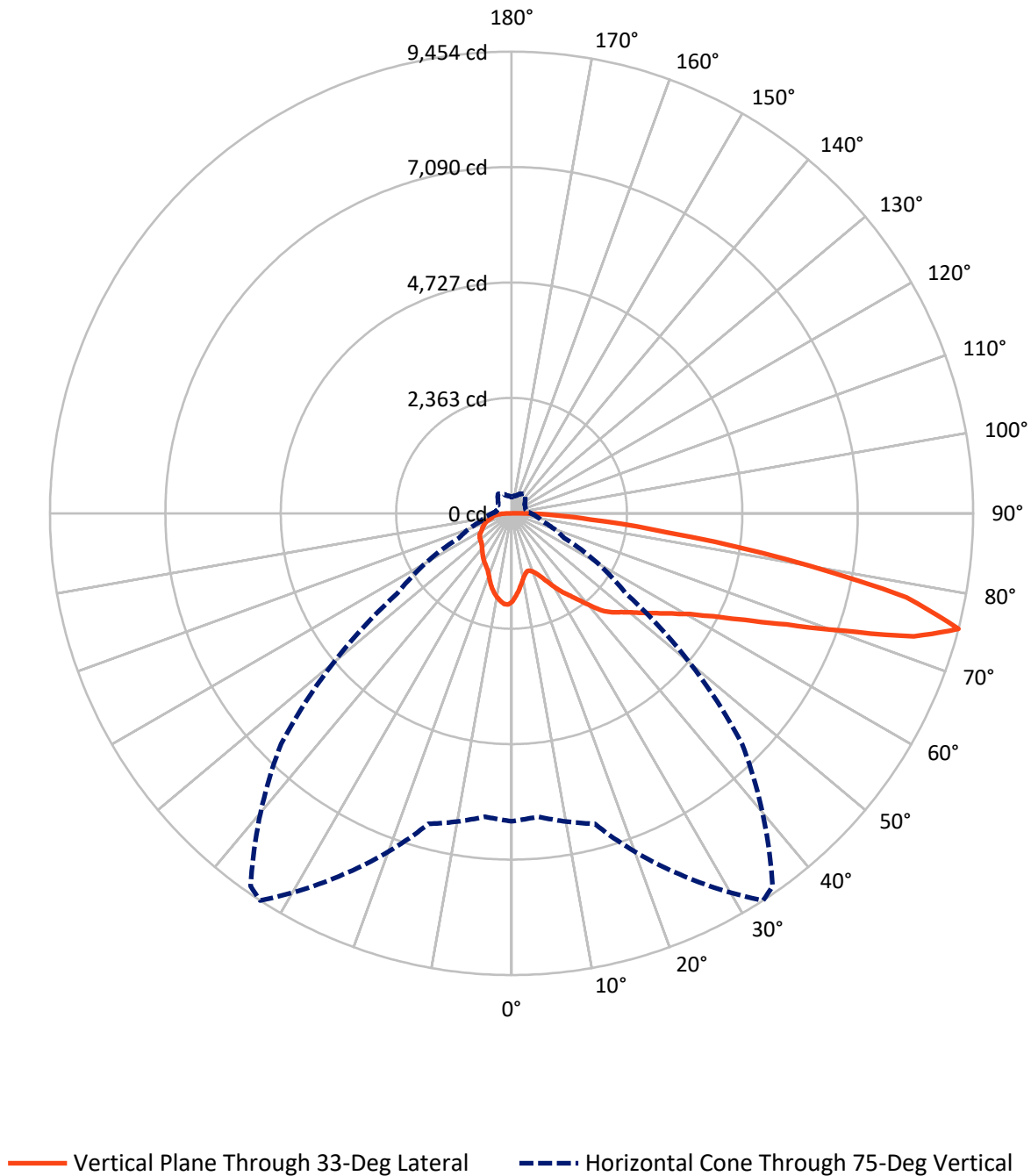
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	2484.2	0.0	2484.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9084.8	0.0	9084.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	11569.0	0.0	11569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.4
10°-20°	442.9	3.8
20°-30°	723.4	6.3
30°-40°	1077.3	9.3
40°-50°	1545.1	13.4
50°-60°	2121.2	18.3
60°-70°	2655.6	23.0
70°-80°	2402.4	20.8
80°-90°	437.6	3.8
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°	11569.0	100.0
0°-180°	11569.0	100.0

Coefficient of Utilization



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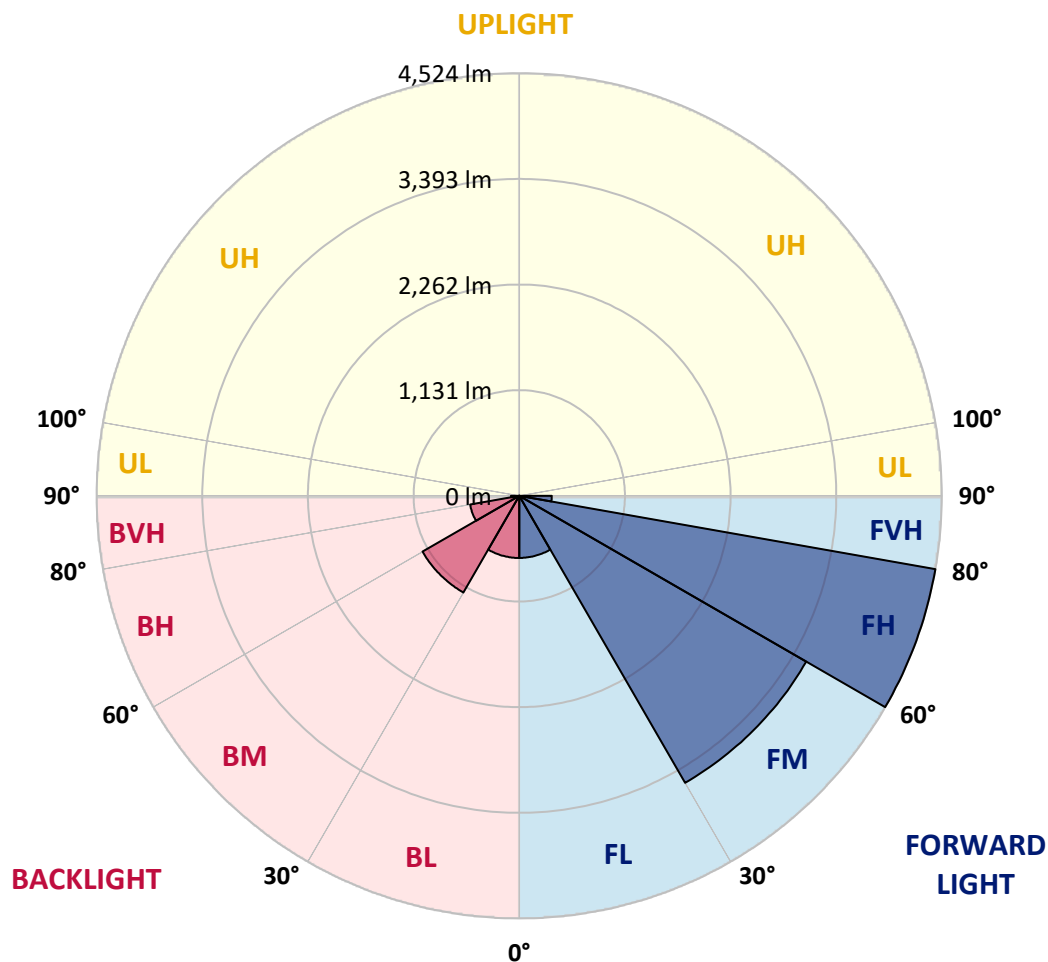
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.5	5.7			
FM	(30°-60°)	3548.0	30.7			
FH	(60°-80°)	4523.9	39.1			G2/5000
FVH	(80°-90°)	348.5	3.0			G3/500
BL	(0°-30°)	665.4	5.8	B2/1000		
BM	(30°-60°)	1195.6	10.3	B2/2500		
BH	(60°-80°)	534.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	89.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3
2.5°	1679.2	1672.8	1684.8	1686.4	1696.8	1700.8	1715.2	1737.6	1755.9	1777.1	1796.3
5°	1527.0	1522.6	1539.4	1551.3	1574.1	1583.7	1617.7	1665.2	1707.6	1755.5	1799.1
7.5°	1382.3	1379.9	1398.7	1425.9	1452.2	1465.4	1524.2	1593.3	1664.0	1741.6	1808.3
10°	1260.4	1259.6	1277.6	1304.4	1343.1	1357.9	1433.9	1525.0	1624.1	1730.8	1823.9
12.5°	1192.1	1194.9	1203.3	1225.6	1261.6	1276.4	1360.7	1467.8	1590.5	1727.2	1846.7
15°	1208.9	1213.3	1198.9	1198.1	1223.6	1235.2	1314.4	1427.1	1566.5	1733.2	1879.8
17.5°	1280.4	1281.2	1243.2	1219.3	1234.8	1240.8	1300.0	1403.9	1552.5	1746.8	1921.4
20°	1381.1	1379.1	1312.0	1272.0	1280.4	1282.0	1320.4	1404.3	1551.3	1770.3	1975.3
22.5°	1514.6	1499.8	1409.5	1355.1	1353.1	1350.7	1372.7	1433.9	1568.9	1808.7	2039.7
25°	1688.8	1674.8	1550.5	1476.2	1460.2	1454.2	1457.4	1497.0	1603.7	1849.9	2111.6
27.5°	1882.6	1858.3	1738.4	1633.3	1600.1	1591.7	1572.5	1586.1	1641.7	1889.4	2197.1
30°	2044.9	2031.7	1927.0	1802.3	1763.1	1751.2	1700.8	1686.0	1696.4	1943.4	2305.0
32.5°	2135.6	2126.8	2063.3	1962.6	1926.2	1909.4	1838.3	1808.7	1784.3	2028.5	2451.3
35°	2245.5	2239.9	2201.5	2128.4	2074.4	2056.9	2001.7	1970.9	1908.2	2145.6	2640.3
37.5°	2385.4	2379.4	2380.2	2321.0	2256.7	2240.3	2203.9	2171.6	2068.9	2299.4	2845.7
40°	2543.6	2532.0	2527.6	2524.8	2484.1	2474.9	2455.7	2411.7	2270.3	2483.3	3048.3
42.5°	2781.8	2740.6	2652.7	2685.9	2726.2	2721.4	2737.0	2673.9	2494.1	2700.7	3246.1
45°	3011.6	2944.0	2792.2	2799.4	2887.7	2914.5	3031.1	2986.4	2736.6	2938.8	3450.8
47.5°	3116.3	3065.1	2936.0	2936.4	3024.0	3079.5	3335.3	3303.3	2991.6	3209.4	3700.5
50°	3233.4	3182.2	3066.3	3109.9	3186.2	3245.3	3629.0	3612.6	3234.2	3505.5	3999.8
52.5°	3361.2	3274.5	3201.0	3278.9	3386.0	3454.8	3923.1	3878.4	3456.7	3803.6	4343.9
55°	3362.8	3339.3	3395.2	3452.4	3612.6	3696.9	4231.2	4112.9	3638.2	4096.5	4624.1
57.5°	3554.3	3515.9	3634.6	3661.0	3870.4	3965.5	4537.7	4317.1	3822.8	4321.1	4775.1
60°	3807.6	3774.9	3872.0	3941.5	4189.3	4316.3	4865.0	4526.9	3967.9	4490.6	4767.9
62.5°	4245.2	4208.0	4206.8	4304.4	4638.0	4785.9	5232.3	4732.7	4025.4	4524.1	4564.5
65°	4885.8	4826.7	4715.2	4761.5	5257.9	5405.3	5642.7	4881.8	3949.5	4344.3	4040.6
67.5°	5509.2	5507.2	5370.2	5465.3	6076.3	6194.6	6110.3	4896.6	3712.5	3718.1	3111.1
70°	6130.6	6138.6	6115.4	6446.3	7182.0	7305.1	6608.2	4698.0	3179.8	2685.1	1863.8
72.5°	6623.0	6621.0	6737.7	7590.9	8617.1	8589.5	7027.8	4096.1	2283.1	1449.4	890.8
75°	6304.1	6234.5	6582.2	8157.5	9453.5	9318.8	6670.9	2857.3	1184.9	659.8	479.5
77.5°	4111.7	4177.7	4688.0	6738.9	8269.0	8105.2	4894.2	1333.1	558.3	432.8	347.7
80°	1489.0	1558.5	2195.1	3817.2	5697.0	5670.3	2410.1	547.9	377.6	326.9	253.4
82.5°	512.3	537.9	866.0	1695.2	3216.6	3336.5	906.7	311.3	274.5	231.8	173.4
85°	201.0	230.2	396.0	815.6	1622.5	1634.5	367.3	186.2	191.0	151.9	95.1
87.5°	76.3	92.7	189.4	378.8	740.9	680.6	131.5	88.7	108.7	90.3	45.2
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°	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3	1808.3
2.5°	1811.1	1819.5	1837.1	1849.1	1861.8	1865.4	1867.0	1870.2	1873.4	1872.2	1872.6
5°	1822.3	1838.7	1867.0	1879.0	1884.6	1878.2	1865.8	1855.9	1848.7	1844.7	1843.5
7.5°	1840.7	1863.8	1894.2	1892.2	1879.4	1851.1	1819.1	1795.1	1775.1	1767.9	1763.9
10°	1865.0	1892.2	1913.4	1890.6	1853.5	1804.3	1756.3	1719.2	1689.2	1677.6	1675.6
12.5°	1896.2	1923.8	1927.8	1879.4	1817.9	1750.8	1685.6	1636.5	1591.7	1577.3	1574.1
15°	1936.6	1962.6	1937.8	1859.9	1773.9	1683.6	1599.3	1532.6	1485.4	1467.8	1461.4
17.5°	1978.9	2003.7	1939.8	1827.5	1716.4	1604.1	1498.2	1429.9	1375.9	1355.5	1353.1
20°	2029.7	2040.9	1931.4	1781.1	1637.3	1501.0	1389.5	1325.2	1296.4	1282.0	1280.4
22.5°	2092.4	2080.4	1912.2	1718.4	1537.0	1381.9	1291.2	1261.2	1254.0	1250.8	1252.0
25°	2158.8	2122.0	1883.8	1636.5	1410.3	1262.8	1219.3	1227.6	1237.2	1236.0	1236.0
27.5°	2231.9	2164.4	1840.3	1527.8	1270.0	1165.3	1170.5	1201.3	1215.7	1215.3	1214.9
30°	2325.8	2212.3	1784.7	1397.1	1138.9	1096.6	1128.1	1165.7	1185.3	1184.5	1184.9
32.5°	2441.3	2265.1	1709.2	1251.2	1044.2	1045.8	1082.2	1119.3	1142.1	1140.1	1140.5
35°	2576.4	2324.2	1606.9	1107.4	981.5	1005.5	1034.2	1060.2	1081.8	1079.0	1076.2
37.5°	2723.4	2382.2	1471.0	978.7	930.3	967.9	991.9	996.3	1006.3	999.1	993.9
40°	2863.3	2426.5	1296.0	873.2	878.8	935.9	951.5	933.9	915.9	913.5	906.3
42.5°	2985.2	2441.3	1118.9	788.9	824.4	902.4	911.9	875.2	842.8	827.6	821.2
45°	3113.9	2446.5	953.9	718.1	772.1	872.4	882.8	833.6	788.1	755.3	744.5
47.5°	3282.1	2484.1	825.6	665.8	732.1	852.4	867.2	800.4	741.3	694.5	684.6
50°	3502.3	2558.4	721.3	625.8	706.1	839.2	856.0	768.1	702.9	646.6	636.6
52.5°	3746.9	2626.7	637.0	593.4	681.0	816.0	841.6	744.9	667.0	602.2	591.4
55°	3917.9	2574.4	569.1	559.9	648.2	782.9	821.6	725.3	615.4	559.1	549.5
57.5°	3950.7	2395.3	517.5	525.1	608.6	741.3	790.9	681.8	587.4	540.3	530.3
60°	3861.2	2146.0	479.1	493.1	566.3	689.0	733.3	651.0	560.7	520.3	511.9
62.5°	3636.2	1890.6	450.8	464.4	526.7	635.8	697.3	618.6	533.5	497.5	489.1
65°	3181.8	1587.3	423.6	438.8	489.9	589.8	665.0	588.6	506.7	479.1	471.2
67.5°	2401.7	1188.9	398.0	411.6	457.2	549.9	629.8	559.1	480.7	463.2	453.6
70°	1414.3	744.5	368.9	383.2	422.8	508.3	592.2	526.7	448.4	440.4	428.0
72.5°	658.2	448.0	335.7	349.7	379.6	452.8	543.9	484.3	410.0	392.4	375.6
75°	392.8	327.7	296.5	308.9	330.1	393.6	483.1	441.2	373.6	350.5	332.9
77.5°	293.7	250.6	253.4	266.5	283.7	344.5	428.0	407.2	345.7	327.7	315.7
80°	211.4	190.2	206.6	221.0	239.0	313.3	410.0	376.4	312.5	288.5	277.3
82.5°	141.1	136.7	155.5	170.2	187.8	274.1	385.2	329.7	266.9	236.6	211.8
85°	77.9	82.3	104.7	111.1	126.3	193.0	315.7	265.0	201.0	161.8	154.7
87.5°	32.4	38.0	56.3	54.3	67.1	115.1	207.8	159.8	127.9	95.5	74.3
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)