

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: P317676

Luminaire Tested: **GAN-SA2B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317676
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-SA2B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9998 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

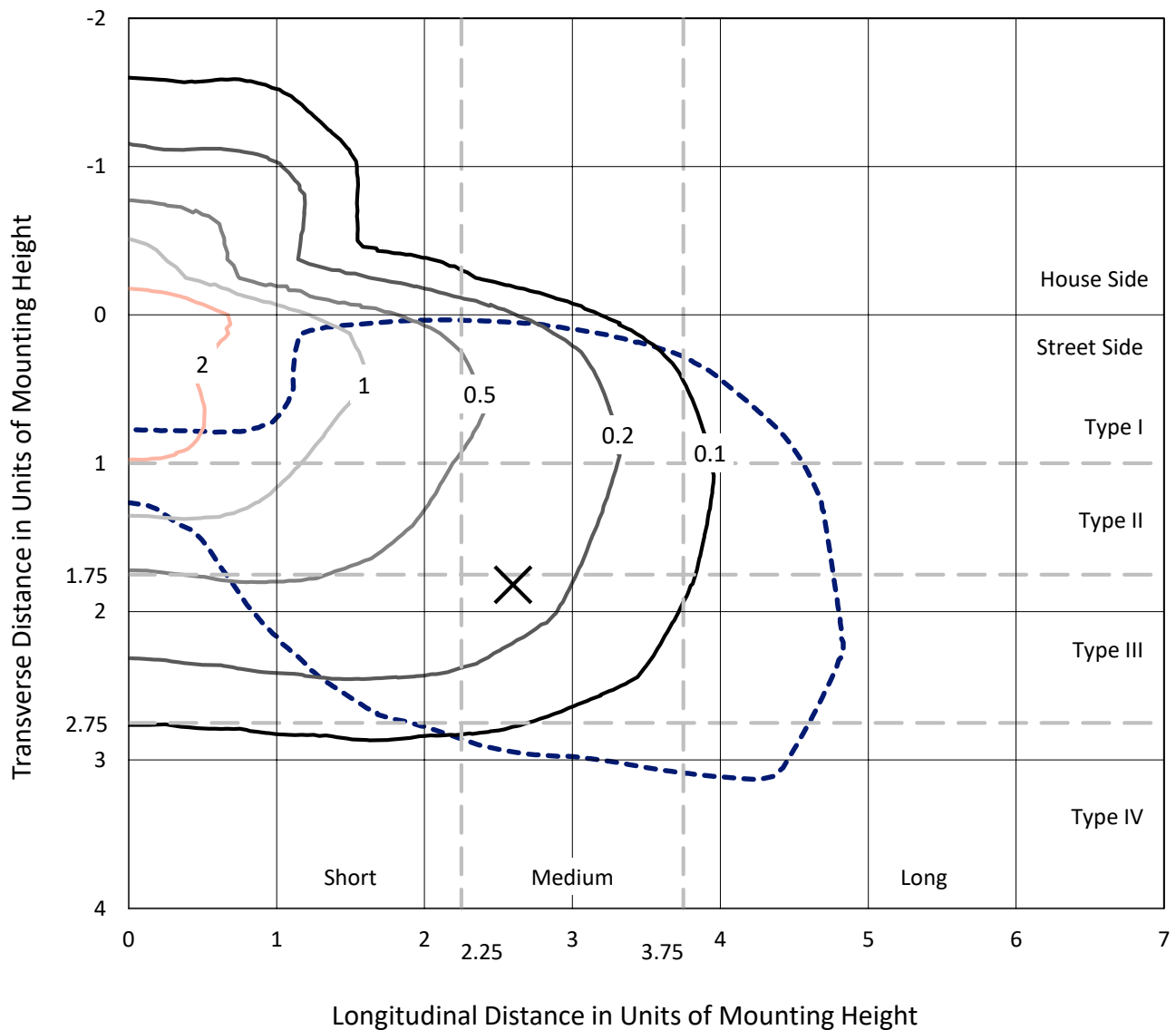


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Iso-Footcandle Lines of Horizontal Illumination

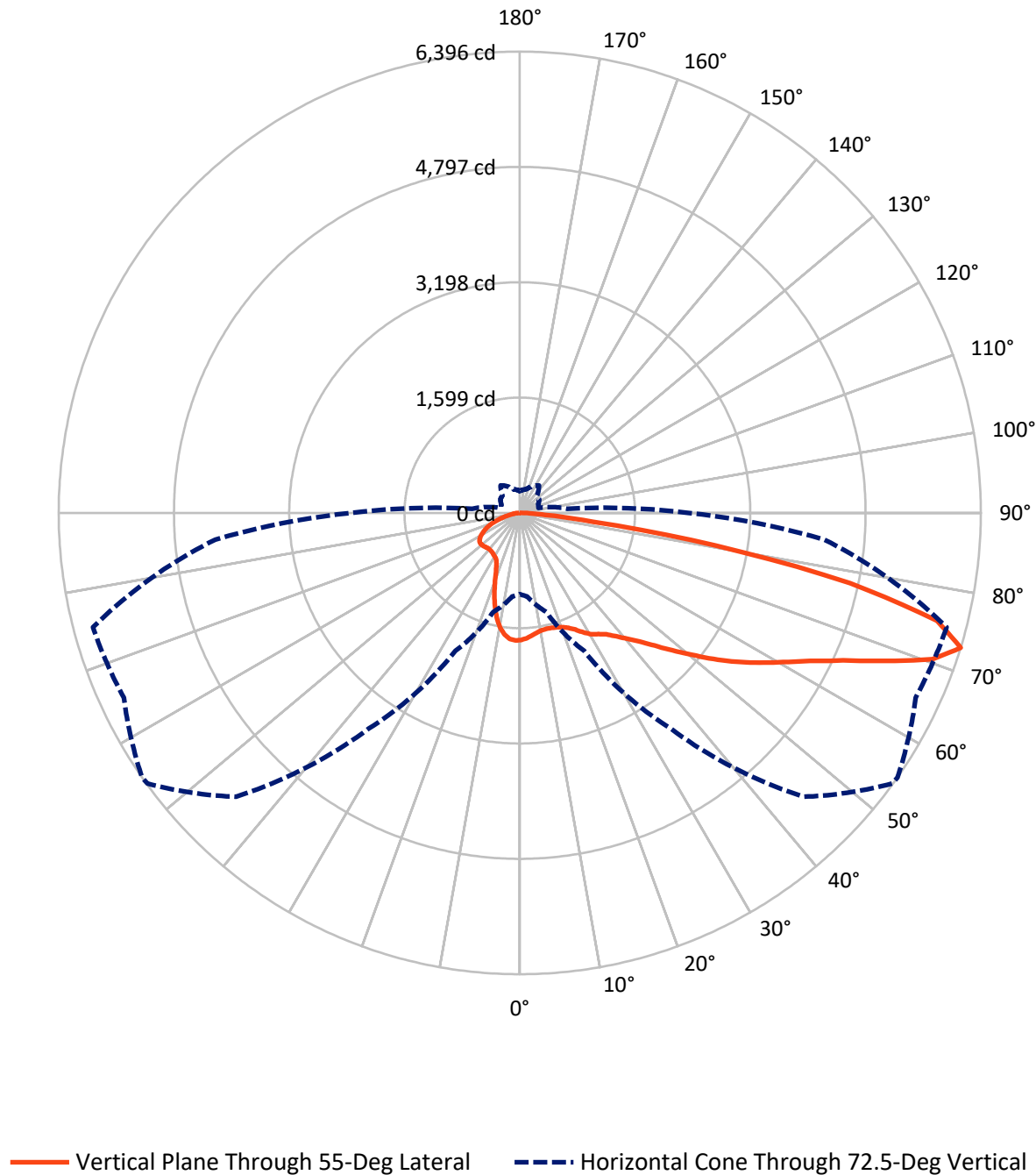
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1858.3	0.0	1858.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8139.7	0.0	8139.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	9998.0	0.0	9998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.6
10°-20°	424.8	4.2
20°-30°	700.4	7.0
30°-40°	1036.1	10.4
40°-50°	1446.2	14.5
50°-60°	1883.0	18.8
60°-70°	2314.2	23.1
70°-80°	1814.0	18.1
80°-90°	219.5	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°	9998.0	100.0
0°-180°	9998.0	100.0

Coefficient of Utilization



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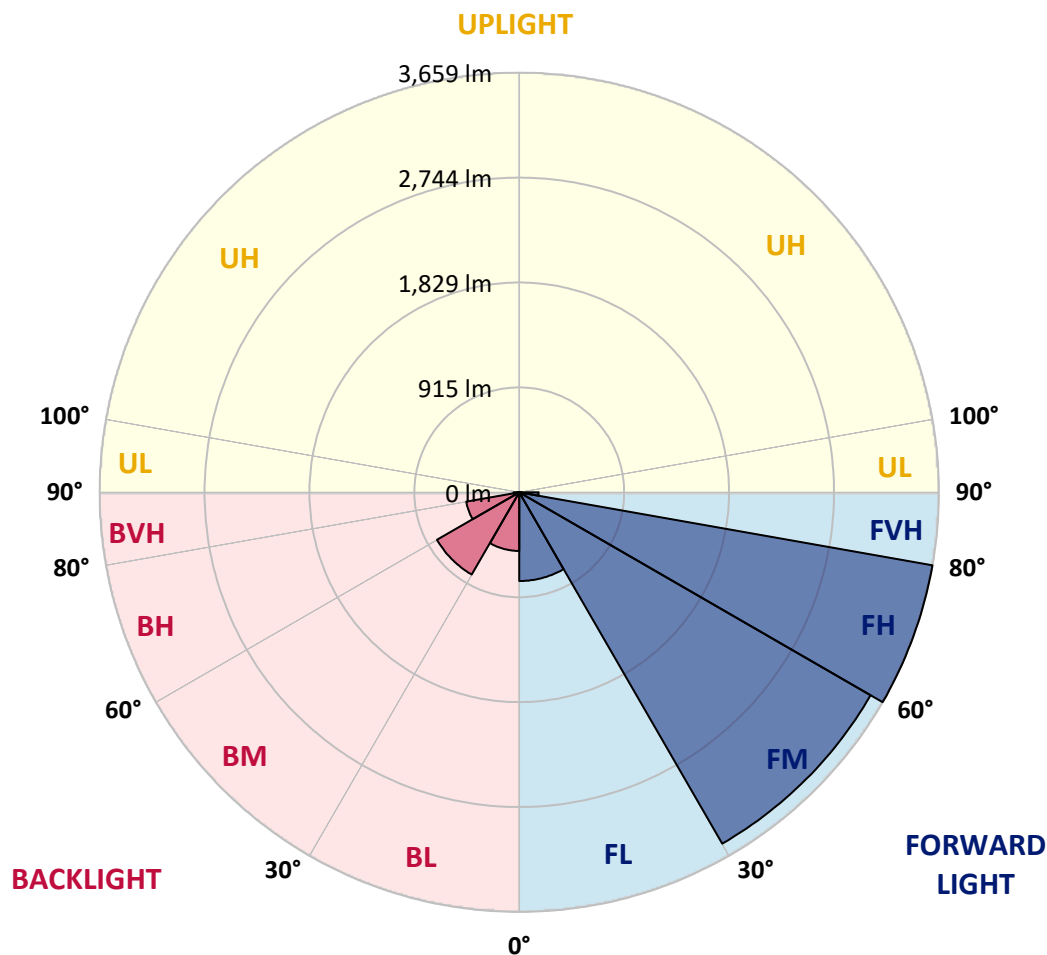
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.6	7.7			
FM	(30°-60°)	3537.5	35.4			
FH	(60°-80°)	3658.9	36.6			G2/5000
FVH	(80°-90°)	169.7	1.7			G2/225
BL	(0°-30°)	511.3	5.1	B2/1000		
BM	(30°-60°)	827.9	8.3	B1/1000		
BH	(60°-80°)	469.3	4.7	B1/500		G1/500
BVH	(80°-90°)	49.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4
2.5°	1706.0	1702.0	1707.0	1714.1	1721.9	1732.4	1738.4	1741.1	1751.6	1755.7	1764.4
5°	1627.0	1625.0	1633.4	1645.6	1662.8	1687.1	1706.7	1710.4	1738.1	1757.7	1775.6
7.5°	1569.6	1569.6	1579.4	1593.9	1613.2	1645.9	1673.6	1678.7	1725.6	1767.8	1800.9
10°	1524.0	1525.7	1537.2	1554.4	1577.0	1611.8	1648.6	1654.4	1722.2	1791.5	1844.1
12.5°	1493.6	1497.7	1508.1	1523.7	1551.7	1593.9	1640.5	1648.3	1729.3	1825.2	1896.1
15°	1512.9	1519.6	1520.6	1527.0	1542.6	1588.5	1645.2	1653.3	1744.5	1859.7	1955.2
17.5°	1597.3	1599.7	1589.2	1575.7	1568.2	1597.6	1659.4	1667.9	1762.8	1893.8	2012.0
20°	1725.6	1724.3	1701.6	1665.2	1627.3	1632.1	1682.7	1691.5	1787.4	1923.8	2068.7
22.5°	1887.7	1883.0	1848.2	1781.0	1716.5	1689.5	1723.6	1731.0	1824.6	1966.7	2129.5
25°	2084.2	2073.8	2027.8	1937.7	1842.8	1773.2	1785.0	1792.1	1878.6	2014.7	2185.2
27.5°	2291.6	2281.1	2222.7	2113.6	1987.3	1878.9	1869.8	1875.9	1940.0	2050.1	2226.4
30°	2508.4	2497.2	2443.9	2321.6	2140.6	1988.3	1948.8	1951.2	1983.3	2069.4	2260.2
32.5°	2726.2	2715.7	2656.0	2514.1	2307.1	2105.9	2005.9	2002.9	2009.3	2089.3	2298.3
35°	2947.0	2951.1	2881.2	2724.2	2491.5	2236.5	2073.4	2067.0	2052.8	2130.2	2352.4
37.5°	3183.4	3180.7	3090.2	2926.1	2684.3	2378.4	2170.4	2169.3	2120.4	2207.5	2437.1
40°	3341.5	3343.2	3288.1	3132.8	2879.2	2535.4	2294.6	2292.3	2228.1	2323.3	2548.2
42.5°	3403.3	3414.4	3428.6	3330.0	3083.1	2717.4	2442.9	2439.5	2378.4	2489.5	2678.9
45°	3407.7	3429.9	3517.7	3505.3	3289.8	2925.8	2632.3	2622.9	2579.0	2710.3	2834.9
47.5°	3369.8	3392.8	3538.7	3609.6	3474.5	3145.6	2853.8	2846.4	2808.6	2986.6	3003.8
50°	3287.1	3309.1	3495.5	3660.6	3626.5	3357.0	3109.1	3089.6	3069.3	3305.7	3196.9
52.5°	3132.1	3174.3	3437.7	3672.7	3717.3	3544.8	3377.6	3364.8	3375.9	3642.4	3390.4
55°	2765.0	2812.3	3288.8	3662.6	3784.5	3702.5	3646.1	3645.4	3703.1	3995.6	3598.1
57.5°	2559.4	2592.8	2985.5	3645.4	3864.2	3859.2	3911.8	3918.3	4030.7	4380.2	3815.6
60°	2443.2	2478.3	2831.9	3581.6	3987.8	4061.8	4183.0	4195.8	4363.7	4806.0	4077.3
62.5°	2337.5	2376.0	2736.7	3451.6	4133.4	4351.5	4507.9	4519.3	4716.2	5243.7	4330.2
65°	2156.8	2200.4	2597.2	3366.1	4265.7	4729.4	4920.9	4928.6	5121.1	5702.3	4523.7
67.5°	1901.5	1941.4	2334.1	3177.4	4363.7	5188.3	5469.9	5474.3	5522.6	6026.1	4622.7
70°	1603.4	1618.6	1959.3	2787.7	4247.8	5617.5	6071.7	6072.7	5888.7	6233.5	4606.5
72.5°	1126.5	1162.3	1422.4	2110.2	3650.5	5565.2	6384.1	6395.6	6058.9	6128.8	4238.4
75°	690.9	728.7	892.2	1278.8	2315.9	4376.8	5898.5	5978.2	5739.8	5464.5	3462.4
77.5°	462.0	476.1	582.2	745.6	1049.2	2518.2	4534.9	4684.8	4768.2	3985.1	2214.3
80°	257.7	284.7	386.0	463.3	466.7	1000.6	2719.1	2754.2	2652.9	1586.8	683.2
82.5°	136.4	151.3	257.7	272.2	254.6	335.0	1013.4	1014.4	847.6	425.5	203.0
85°	105.7	118.2	176.6	166.1	130.0	148.6	334.3	352.6	288.4	174.2	66.2
87.5°	52.7	65.5	119.9	105.4	51.0	42.5	119.5	127.6	113.8	68.2	24.0
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°	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4
2.5°	1767.8	1770.9	1774.6	1770.5	1769.2	1763.8	1754.7	1752.6	1747.9	1748.2	1750.9
5°	1783.4	1788.4	1786.4	1770.9	1752.3	1726.3	1699.3	1676.3	1661.1	1660.1	1659.1
7.5°	1813.1	1816.4	1800.6	1756.3	1704.3	1644.2	1587.5	1537.9	1507.8	1500.4	1498.7
10°	1859.7	1859.0	1815.4	1726.3	1622.6	1515.2	1424.1	1355.2	1315.0	1303.2	1300.1
12.5°	1911.7	1903.9	1820.5	1671.6	1507.1	1358.2	1242.7	1166.1	1124.2	1110.7	1107.3
15°	1965.4	1946.1	1808.0	1589.9	1365.3	1189.0	1067.8	996.9	974.2	966.8	965.5
17.5°	2015.4	1978.2	1772.2	1479.1	1203.5	1020.5	926.0	897.6	903.0	912.8	913.1
20°	2064.3	1999.8	1714.8	1339.3	1033.0	881.7	849.6	870.6	896.2	916.2	918.9
22.5°	2112.6	2015.0	1640.8	1177.9	880.4	803.7	826.3	864.5	893.9	915.5	919.2
25°	2153.1	2018.7	1538.9	1005.6	774.3	774.3	815.2	851.3	880.4	901.6	905.4
27.5°	2168.0	1993.7	1395.0	846.3	721.0	760.8	799.7	829.7	854.4	877.0	881.0
30°	2173.7	1947.5	1228.9	718.3	699.0	746.3	778.7	804.4	827.7	849.0	852.7
32.5°	2174.7	1891.8	1052.6	645.7	683.8	731.1	752.7	775.3	800.3	808.8	810.1
35°	2181.2	1825.9	866.9	608.5	669.6	716.9	734.1	750.4	709.8	712.9	715.6
37.5°	2199.7	1760.7	711.5	587.6	660.5	709.5	730.1	671.3	639.6	632.2	631.1
40°	2234.5	1691.2	596.4	570.7	657.2	713.2	704.1	626.8	572.1	531.2	525.1
42.5°	2282.8	1616.2	522.7	559.6	659.5	731.1	668.0	583.9	493.0	466.7	463.3
45°	2337.2	1537.5	482.9	551.8	667.6	745.0	660.5	526.8	456.2	436.3	434.6
47.5°	2389.9	1441.3	462.3	548.4	678.8	733.8	629.1	509.2	438.7	428.2	429.2
50°	2450.3	1354.5	449.8	544.7	688.6	726.7	593.7	500.1	431.9	444.7	458.2
52.5°	2501.3	1264.7	438.7	537.3	692.3	714.2	584.5	501.8	431.9	456.6	469.4
55°	2561.7	1196.8	425.8	521.7	685.2	678.8	578.1	511.9	437.0	421.4	422.8
57.5°	2639.7	1174.5	411.6	497.4	661.5	627.1	575.1	521.7	433.9	424.1	427.5
60°	2747.8	1198.1	405.9	465.7	624.7	586.6	575.4	516.7	412.7	395.8	396.1
62.5°	2850.8	1224.5	405.6	445.8	579.5	550.4	567.7	500.1	401.9	392.1	395.8
65°	2884.6	1197.8	389.4	423.5	528.5	507.2	553.5	482.6	393.7	378.9	378.2
67.5°	2839.3	1115.1	356.6	387.3	470.1	456.9	534.9	461.6	380.9	368.8	366.7
70°	2704.9	930.3	316.1	339.7	403.5	400.2	505.5	437.3	363.7	353.2	344.4
72.5°	2343.3	662.9	266.4	282.6	328.6	339.4	465.0	405.6	339.4	316.8	303.2
75°	1924.5	490.7	218.8	222.2	249.6	278.9	409.3	368.4	310.7	272.2	261.7
77.5°	1178.5	300.2	174.2	175.6	179.0	222.5	337.0	326.9	274.2	226.9	219.5
80°	381.6	163.8	126.0	132.4	122.2	163.1	260.7	278.3	235.4	189.8	181.7
82.5°	145.2	95.6	85.1	89.5	84.8	109.4	190.1	222.9	192.8	156.0	127.0
85°	70.2	54.0	50.3	56.4	52.3	56.1	121.6	164.1	146.2	101.6	94.6
87.5°	25.0	24.0	19.2	26.0	22.3	19.9	37.1	82.7	96.6	69.9	62.5
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)