

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: P319476

Luminaire Tested: **GAN-SA2B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8420 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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



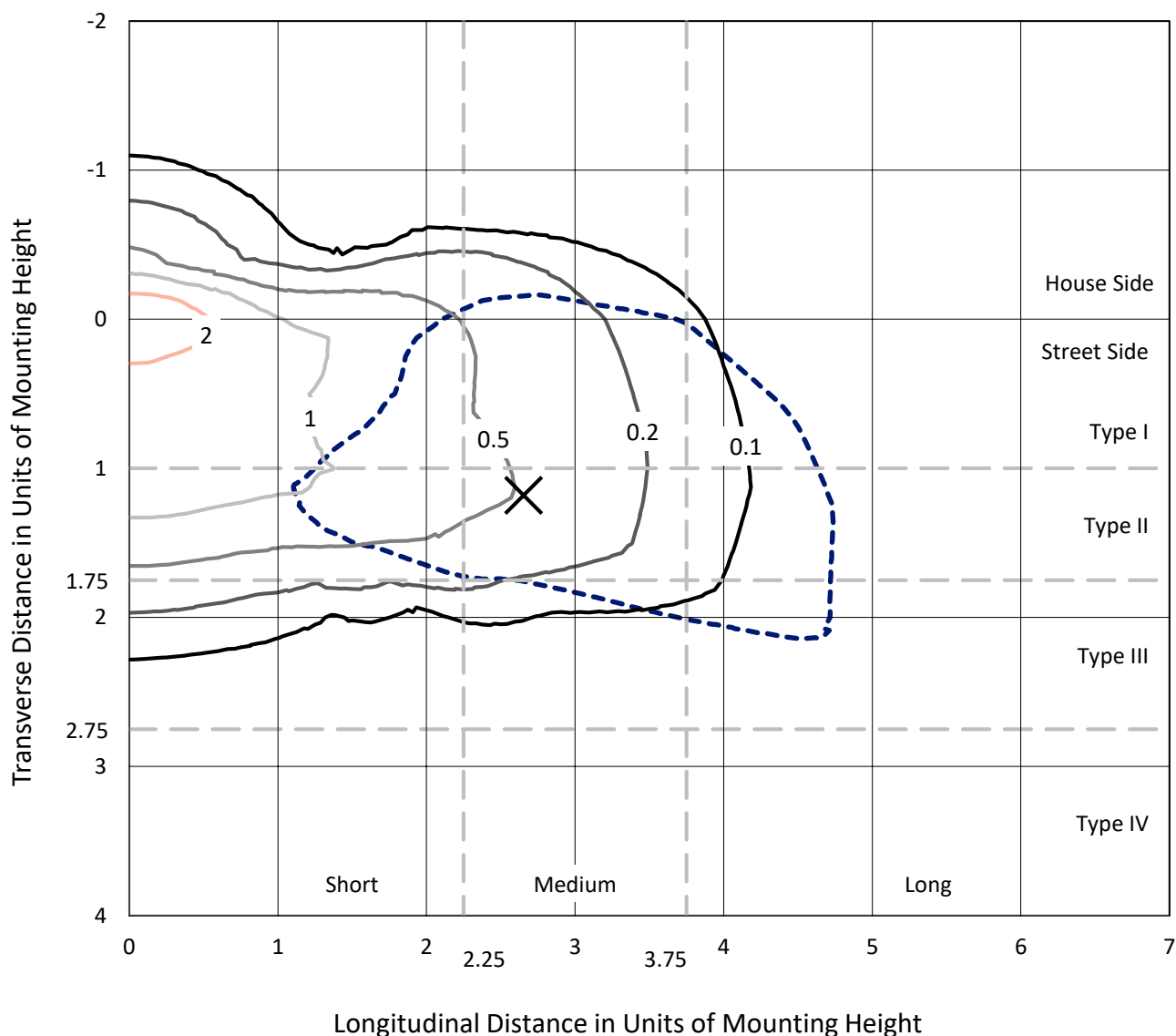
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

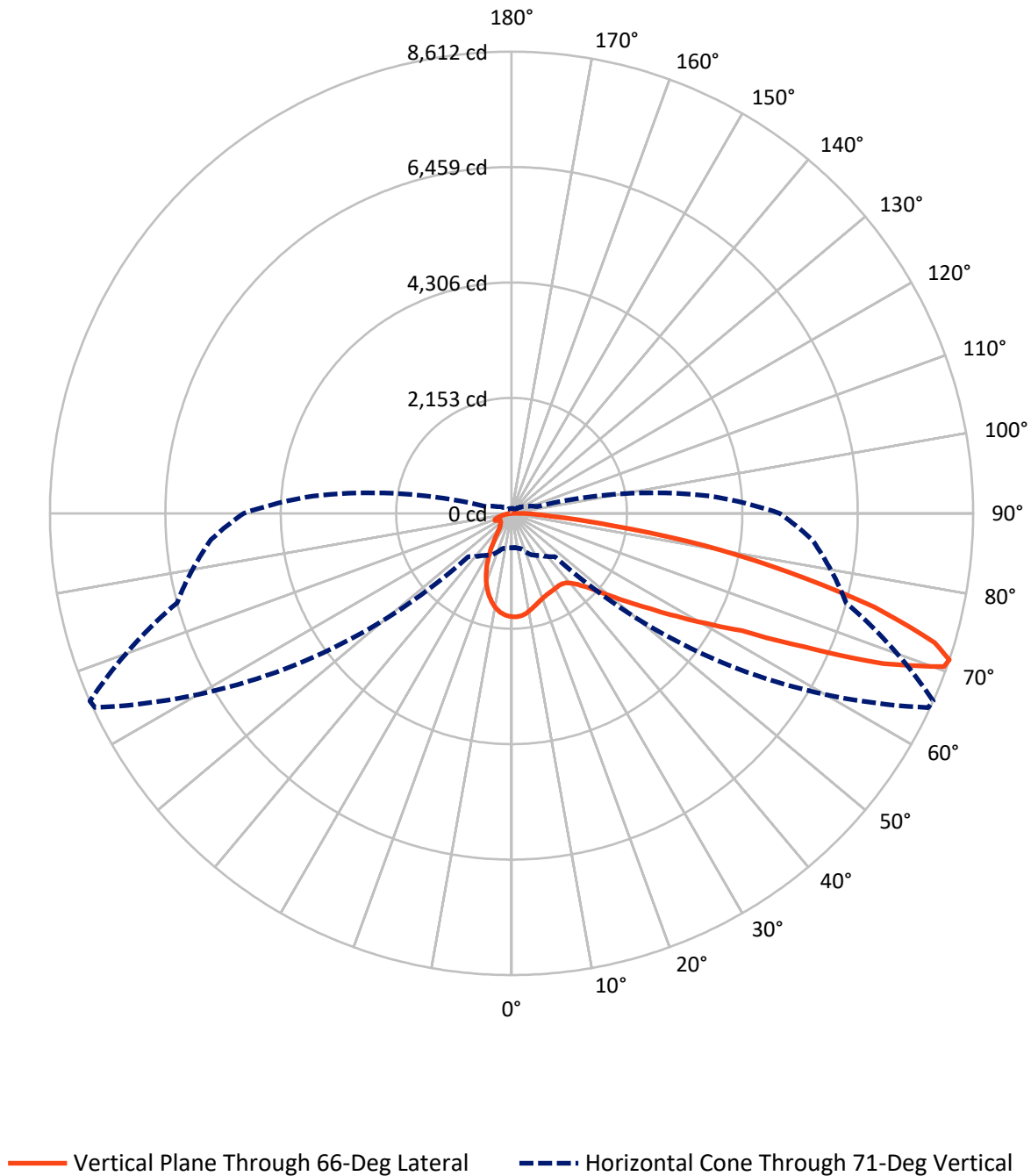
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1560.5	0.0	1560.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	6859.5	0.0	6859.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	8420.0	0.0	8420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	2.0
10°-20°	407.2	4.8
20°-30°	547.0	6.5
30°-40°	719.6	8.5
40°-50°	1046.8	12.4
50°-60°	1635.2	19.4
60°-70°	2048.3	24.3
70°-80°	1562.4	18.6
80°-90°	283.7	3.4
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°	8420.0	100.0
0°-180°	8420.0	100.0

Coefficient of Utilization



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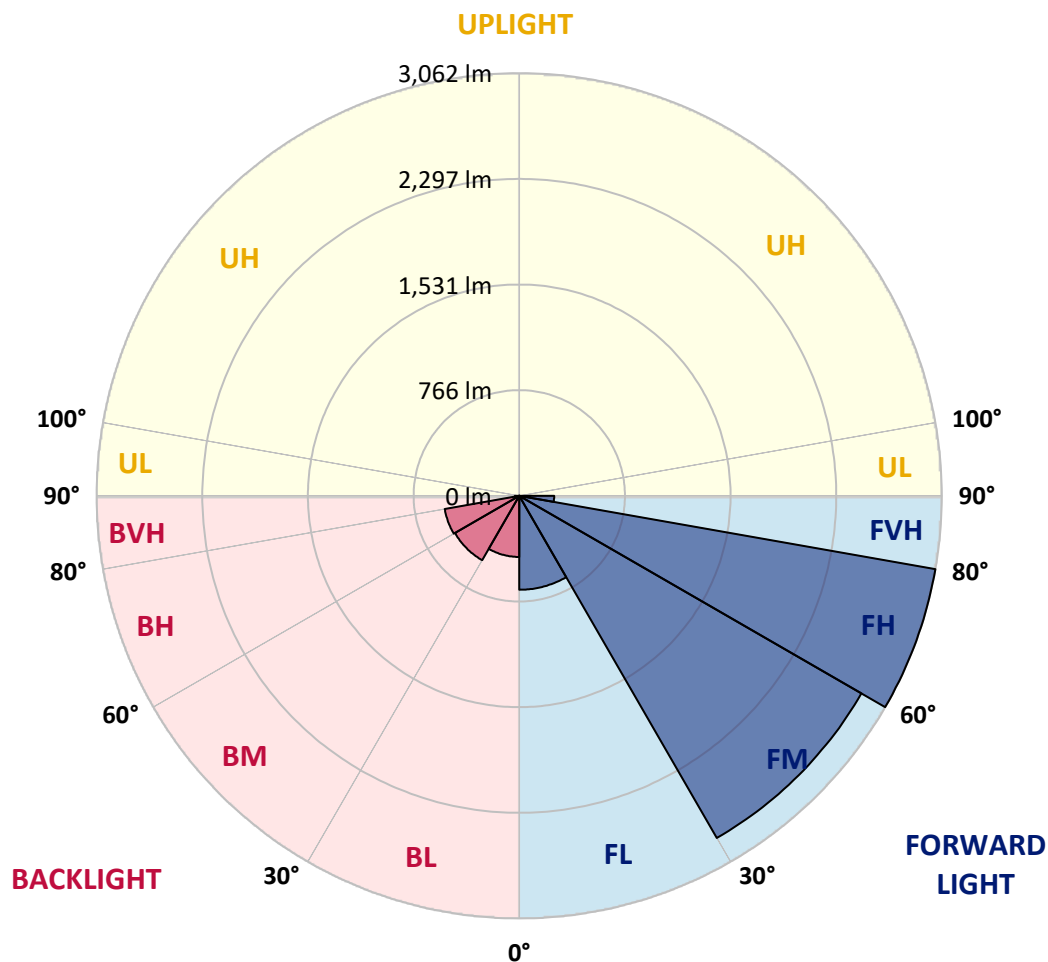
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	680.9	8.1			
FM	(30°-60°)	2863.2	34.0			
FH	(60°-80°)	3062.4	36.4			G2/5000
FVH	(80°-90°)	253.0	3.0			G3/500
BL	(0°-30°)	443.1	5.3	B1/500		
BM	(30°-60°)	538.3	6.4	B1/1000		
BH	(60°-80°)	548.3	6.5	B2/1000		G2/1000
BVH	(80°-90°)	30.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9
2.5°	1893.1	1890.2	1898.9	1907.9	1911.4	1917.2	1926.0	1930.9	1930.6	1931.5	1928.6
5°	1767.5	1763.7	1781.2	1795.4	1822.7	1853.6	1891.1	1917.8	1918.4	1933.5	1937.6
7.5°	1648.6	1646.0	1666.1	1689.0	1720.7	1767.8	1828.6	1886.1	1889.6	1930.6	1944.8
10°	1553.3	1552.7	1572.2	1597.2	1634.1	1686.7	1756.5	1840.8	1846.0	1916.6	1946.0
12.5°	1478.8	1480.0	1496.9	1525.4	1564.3	1619.3	1694.8	1789.9	1798.3	1894.6	1939.3
15°	1423.9	1428.5	1442.2	1471.0	1509.4	1565.2	1642.8	1742.8	1755.6	1869.8	1935.5
17.5°	1392.5	1397.7	1407.3	1431.2	1467.2	1521.0	1594.5	1704.1	1715.8	1850.9	1935.8
20°	1383.2	1387.6	1393.1	1407.6	1438.1	1487.0	1556.5	1669.3	1681.8	1835.8	1938.7
22.5°	1401.5	1404.7	1405.3	1404.1	1422.7	1462.6	1528.8	1643.7	1657.0	1825.9	1940.8
25°	1440.8	1445.1	1441.9	1431.2	1425.1	1449.5	1514.6	1626.8	1640.2	1818.7	1936.7
27.5°	1499.8	1500.4	1497.7	1483.8	1455.0	1450.9	1510.2	1616.9	1629.7	1810.2	1928.3
30°	1580.0	1583.8	1579.1	1560.2	1513.1	1474.2	1515.5	1607.3	1619.0	1799.5	1914.6
32.5°	1673.9	1683.2	1682.9	1663.2	1595.7	1526.2	1537.0	1601.5	1610.5	1788.2	1898.0
35°	1771.3	1784.1	1807.9	1799.5	1716.1	1608.5	1578.3	1610.8	1616.9	1786.7	1886.4
37.5°	1872.5	1885.3	1934.4	1957.1	1859.4	1726.2	1643.4	1643.7	1646.6	1804.4	1885.5
40°	1978.3	1991.9	2065.8	2124.8	2045.1	1875.4	1748.3	1712.3	1709.1	1848.0	1902.7
42.5°	2126.5	2138.8	2227.4	2302.7	2251.3	2066.4	1893.4	1818.1	1811.4	1933.5	1957.6
45°	2314.0	2324.5	2418.7	2499.2	2472.8	2284.4	2075.7	1963.7	1962.6	2076.0	2069.0
47.5°	2537.0	2545.2	2629.8	2707.7	2717.3	2535.3	2304.7	2188.5	2169.6	2271.3	2241.4
50°	2769.3	2778.3	2835.9	2919.6	2990.8	2871.0	2599.5	2463.8	2438.5	2529.2	2485.6
52.5°	2923.1	2935.0	2985.0	3091.1	3298.4	3239.1	2948.1	2797.5	2759.1	2841.7	2808.3
55°	2854.5	2881.2	2957.7	3127.7	3544.3	3801.3	3378.0	3186.8	3143.4	3212.1	3192.3
57.5°	2542.5	2579.2	2683.5	2946.1	3578.9	4296.7	4028.1	3645.2	3614.7	3594.9	3603.9
60°	1972.5	2007.6	2137.0	2479.2	3337.9	4658.3	5006.3	4210.3	4166.2	3979.2	3987.4
62.5°	1396.0	1378.3	1466.9	1717.2	2712.3	4700.8	6119.4	4966.2	4820.8	4385.1	4349.3
65°	1064.6	1060.5	1100.3	1180.0	1642.8	4192.9	6782.5	6236.6	6009.6	4862.4	4778.1
67.5°	874.7	867.5	906.7	1022.7	1057.9	2705.1	6797.1	7710.5	7487.5	5456.6	5274.1
70°	719.2	711.1	747.7	897.4	977.7	1371.9	5720.6	8573.6	8561.7	6209.0	5648.5
71°	644.8	639.0	682.9	849.2	960.5	1143.4	4939.2	8575.9	8611.7	6463.6	5626.4
72.5°	525.0	527.1	573.6	755.8	947.7	1009.6	3630.1	8176.2	8251.8	6706.4	5425.5
75°	348.9	350.6	411.6	581.4	918.9	987.8	1995.1	6860.7	6999.7	6561.0	4950.8
77.5°	234.3	233.7	275.3	398.9	800.6	987.8	1169.8	5131.3	5283.9	5220.6	3816.7
80°	161.3	160.2	189.5	275.3	606.1	999.8	904.4	3596.1	3642.3	2819.3	1551.2
82.5°	98.8	99.7	123.8	194.5	412.5	899.7	853.8	1960.8	1910.5	790.7	387.5
85°	56.7	56.4	79.1	131.7	264.8	759.3	832.6	843.9	774.2	238.1	140.1
87.5°	20.3	21.8	42.4	73.0	151.8	528.8	706.4	439.0	395.7	107.6	63.4
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°	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9
2.5°	1926.5	1928.3	1926.2	1914.6	1904.7	1888.7	1879.7	1867.2	1863.4	1861.7	1866.4
5°	1933.8	1934.4	1917.2	1886.7	1852.4	1812.0	1782.9	1747.2	1730.3	1723.0	1727.7
7.5°	1940.5	1937.9	1900.4	1841.9	1778.6	1708.2	1645.7	1588.4	1555.0	1541.3	1542.5
10°	1941.4	1930.3	1870.1	1779.7	1681.5	1578.3	1482.3	1394.0	1338.1	1301.8	1312.8
12.5°	1932.3	1913.7	1825.7	1699.2	1562.9	1422.2	1292.5	1159.9	1080.3	1043.4	1044.5
15°	1925.4	1891.6	1771.0	1604.4	1421.3	1234.9	1057.9	902.1	817.2	779.4	761.7
17.5°	1919.6	1867.8	1707.6	1497.7	1254.1	1017.8	805.0	666.0	619.5	608.5	603.8
20°	1911.4	1842.5	1637.0	1374.2	1063.7	774.7	587.8	519.2	519.5	532.3	534.0
22.5°	1900.1	1813.7	1561.7	1235.5	859.3	564.3	460.8	441.0	461.1	485.5	489.8
25°	1883.2	1779.7	1478.0	1082.3	655.3	433.7	393.6	392.7	417.2	442.8	446.5
27.5°	1859.4	1735.2	1384.9	917.8	482.9	368.6	352.6	358.7	376.8	395.4	396.8
30°	1827.4	1683.5	1282.3	744.2	378.5	328.2	326.5	332.0	343.0	356.1	357.3
32.5°	1792.2	1630.9	1172.7	576.2	324.1	306.4	308.2	310.8	316.0	321.2	322.4
35°	1760.2	1577.1	1060.5	437.8	298.3	292.2	291.0	290.4	291.0	289.3	289.5
37.5°	1739.6	1532.6	943.6	348.6	283.4	279.7	276.2	271.8	266.9	264.0	264.5
40°	1732.0	1499.5	825.3	301.2	271.2	268.6	261.9	252.6	246.8	245.1	245.1
42.5°	1752.4	1482.3	711.1	277.3	261.1	256.7	245.6	234.9	230.5	230.2	230.0
45°	1814.6	1489.3	602.4	264.3	251.8	243.3	228.8	219.8	216.9	217.5	217.2
47.5°	1926.2	1533.2	509.3	255.5	242.5	231.4	215.1	207.9	204.4	204.4	204.7
50°	2116.1	1635.8	435.2	248.3	234.6	220.4	205.2	196.2	191.6	191.3	191.3
52.5°	2392.5	1819.6	389.0	242.2	225.9	210.5	195.4	184.0	178.5	177.3	176.8
55°	2739.1	2082.9	376.2	238.1	214.3	199.7	183.4	172.1	166.0	163.4	163.1
57.5°	3126.6	2403.3	401.5	233.1	202.3	186.9	170.4	159.6	153.2	150.0	149.7
60°	3518.8	2753.0	504.7	226.2	192.4	173.0	157.0	147.1	140.7	137.2	136.6
62.5°	3911.5	3121.6	715.4	225.6	185.5	159.6	143.3	134.9	128.8	125.0	124.1
65°	4354.5	3525.1	955.0	241.0	183.1	147.4	129.4	122.7	117.4	114.0	113.7
67.5°	4863.3	3980.7	932.0	272.7	191.0	136.3	116.3	111.1	107.3	104.4	104.1
70°	5102.0	3909.5	579.4	295.1	202.0	125.6	103.8	100.0	97.1	95.1	94.2
71°	5002.0	3712.1	485.8	292.5	200.9	120.9	98.8	95.9	93.0	91.3	90.4
72.5°	4729.3	3385.3	405.2	272.1	187.8	112.5	92.4	89.5	86.9	84.9	84.3
75°	4243.8	3023.4	324.4	217.5	149.7	95.1	81.1	77.9	75.9	74.7	73.5
77.5°	3119.6	2157.6	250.9	171.8	110.2	77.6	69.2	66.9	64.8	63.1	62.2
80°	1195.1	835.8	168.9	128.2	80.8	61.3	55.8	54.7	52.6	51.5	51.5
82.5°	321.8	249.7	90.1	77.6	54.1	44.8	42.7	42.2	40.4	38.1	38.4
85°	130.2	110.2	50.6	42.7	33.1	26.5	28.8	29.1	27.0	24.1	24.4
87.5°	57.3	46.8	28.2	18.9	14.5	10.2	13.1	13.1	11.9	9.9	9.0
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)