

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: P319188

Luminaire Tested: **GAN-SA4A-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319188
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-SA4A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14834 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

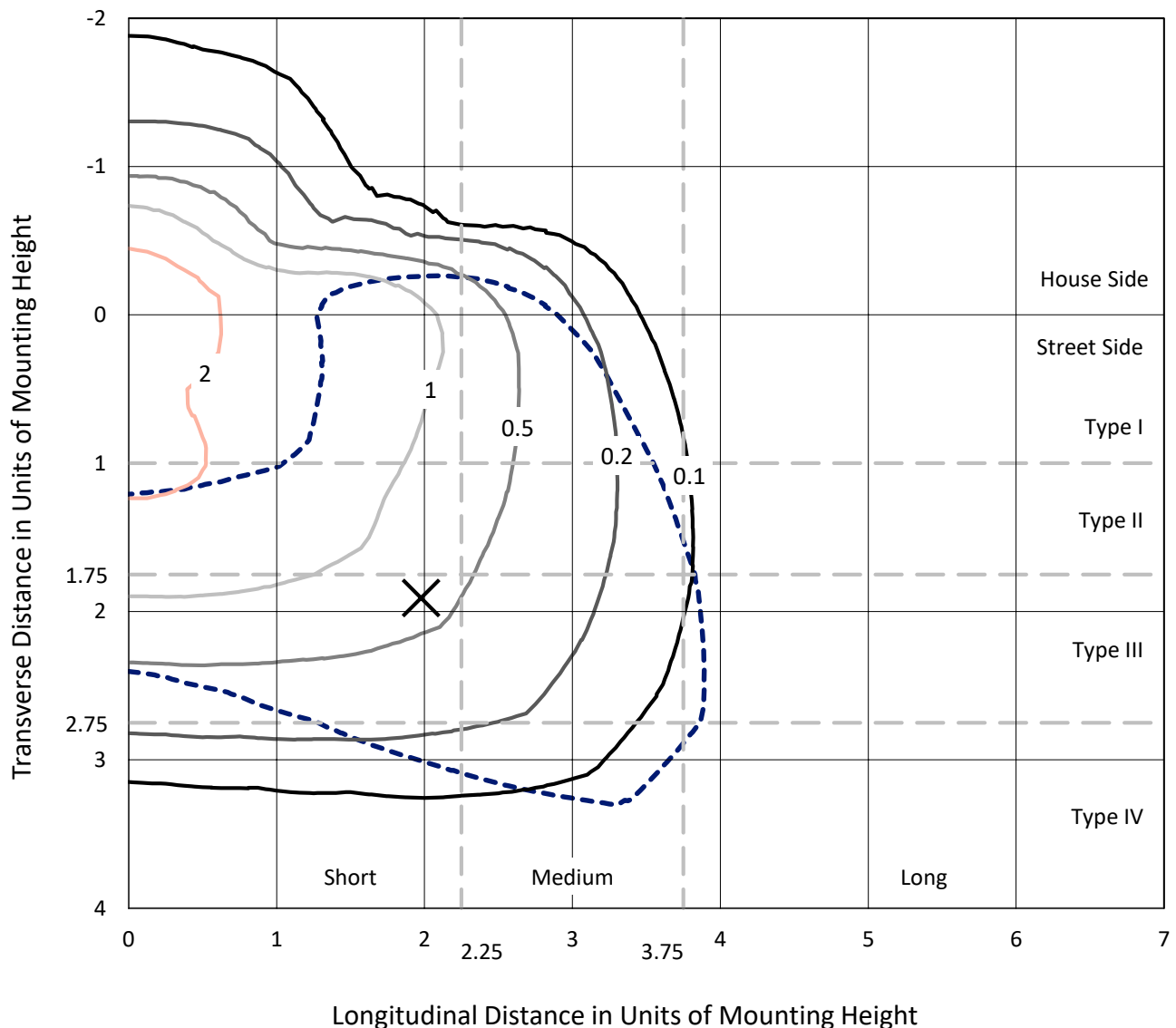
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

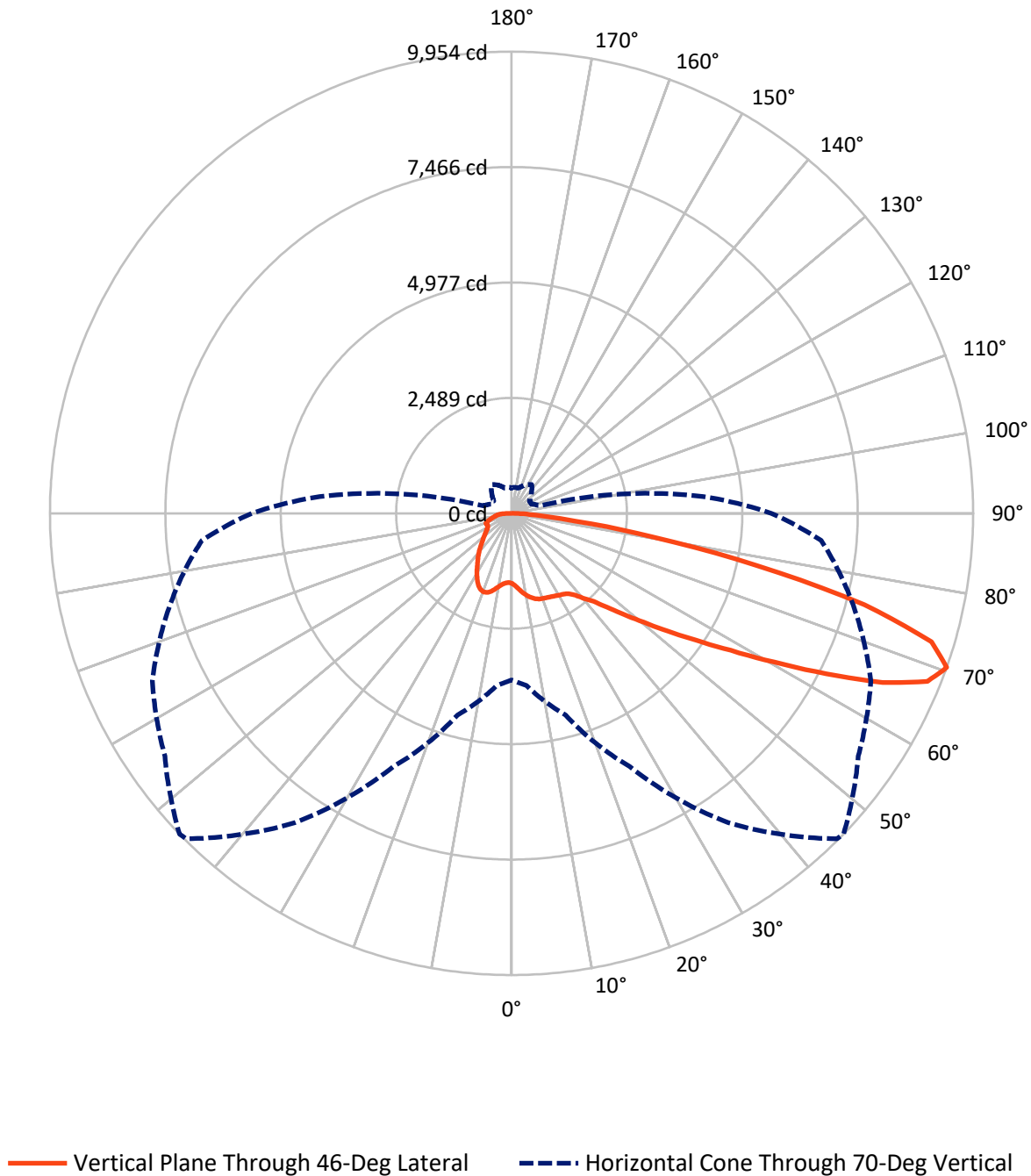
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	3399.9	0.0	3399.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11434.1	0.0	11434.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	14834.0	0.0	14834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.0
10°-20°	513.3	3.5
20°-30°	855.9	5.8
30°-40°	1214.5	8.2
40°-50°	1786.5	12.0
50°-60°	3025.4	20.4
60°-70°	4294.6	29.0
70°-80°	2609.0	17.6
80°-90°	380.8	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°	14834.0	100.0
0°-180°	14834.0	100.0

Coefficient of Utilization



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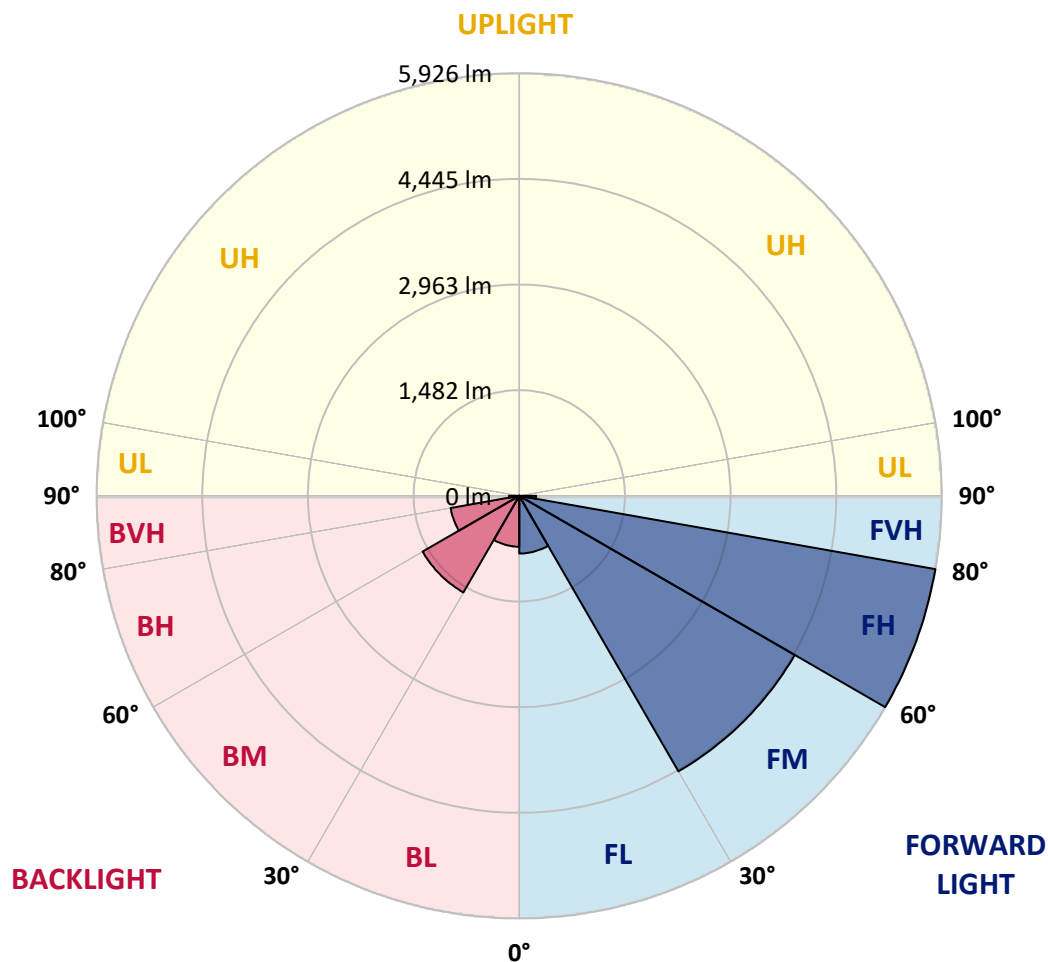
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.4	5.5			
FM	(30°-60°)	4461.4	30.1			
FH	(60°-80°)	5926.1	39.9			G3/7500
FVH	(80°-90°)	237.2	1.6			G3/500
BL	(0°-30°)	713.8	4.8	B2/1000		
BM	(30°-60°)	1565.1	10.6	B2/2500		
BH	(60°-80°)	977.4	6.6	B2/1000		G2/1000
BVH	(80°-90°)	143.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3
2.5°	1586.9	1588.0	1590.0	1584.9	1570.7	1566.6	1565.1	1550.4	1540.7	1526.5	1514.3
5°	1713.8	1714.9	1711.8	1697.6	1666.1	1642.8	1640.7	1607.2	1576.8	1544.3	1519.9
7.5°	1846.3	1847.9	1838.2	1811.3	1767.2	1726.5	1724.0	1678.3	1632.1	1582.9	1546.3
10°	1963.6	1957.5	1941.8	1904.2	1851.9	1802.2	1800.2	1752.4	1699.1	1639.7	1591.0
12.5°	2041.8	2036.7	2016.4	1970.7	1913.4	1867.7	1863.6	1819.4	1767.7	1702.7	1644.3
15°	2084.9	2088.5	2061.1	2009.3	1953.5	1914.9	1911.3	1879.9	1833.7	1768.2	1701.2
17.5°	2090.5	2093.6	2067.2	2015.9	1970.2	1943.8	1942.3	1921.5	1888.0	1825.0	1755.0
20°	2058.0	2060.1	2038.2	1996.1	1966.2	1958.0	1957.5	1948.4	1923.5	1867.7	1799.6
22.5°	2010.8	2012.4	1996.6	1966.2	1956.0	1968.7	1972.2	1968.7	1950.9	1898.6	1834.7
25°	1999.2	1998.1	1981.9	1950.9	1959.6	1986.5	1991.0	1992.6	1980.4	1934.7	1879.3
27.5°	2055.5	2051.9	2021.0	1971.2	1976.8	2009.3	2015.4	2030.1	2022.5	1982.4	1930.1
30°	2218.5	2212.4	2148.9	2048.4	2021.0	2037.7	2045.3	2068.7	2070.2	2036.7	1997.6
32.5°	2493.6	2486.0	2372.3	2192.6	2095.6	2066.7	2073.8	2108.8	2127.6	2101.7	2059.6
35°	2841.4	2832.7	2683.5	2437.8	2220.5	2122.0	2127.1	2155.0	2192.6	2156.0	2100.2
37.5°	3203.8	3183.0	3039.3	2726.1	2419.0	2240.3	2240.3	2243.8	2261.6	2185.5	2147.9
40°	3564.3	3543.4	3413.5	3065.2	2675.9	2426.6	2414.9	2336.2	2322.0	2256.5	2243.8
42.5°	3899.3	3893.2	3816.6	3448.5	2977.4	2609.9	2593.6	2460.1	2463.2	2422.5	2423.0
45°	4255.7	4255.7	4193.2	3835.3	3328.7	2904.3	2888.1	2691.6	2722.1	2703.3	2748.5
47.5°	4546.6	4555.7	4547.1	4238.4	3737.4	3278.4	3249.0	3012.4	3097.7	3162.2	3293.7
50°	4843.6	4857.8	4859.3	4680.6	4231.3	3723.2	3689.6	3438.4	3628.7	3813.5	4071.9
52.5°	5274.6	5306.5	5179.1	5121.7	4836.4	4251.1	4218.1	3986.1	4303.9	4563.3	5008.5
55°	5674.1	5646.2	5555.3	5590.8	5484.2	4852.2	4827.3	4623.7	5056.3	5393.3	5971.6
57.5°	5890.3	5888.3	5979.7	6132.0	6182.8	5593.4	5572.5	5374.6	5904.6	6157.9	6875.7
60°	6144.2	6147.7	6374.1	6719.9	6929.0	6516.3	6507.1	6356.9	6728.5	6871.6	7584.9
62.5°	6179.7	6243.7	6633.6	7228.5	7627.5	7594.5	7614.9	7241.7	7465.6	7441.2	8114.4
65°	5771.0	5855.3	6561.0	7382.3	8322.0	8773.8	8792.6	8131.6	8046.9	7928.1	8303.7
67.5°	4933.4	5058.3	5824.9	7047.8	8551.0	9645.5	9671.9	8821.6	8529.1	8093.1	7847.9
70°	3590.1	3728.7	4500.4	6019.3	8142.8	9924.2	9954.1	9126.7	8547.4	7623.5	6699.5
72.5°	2168.7	2277.3	2913.4	4431.3	6872.7	9416.5	9469.8	8739.8	7803.7	6457.4	4947.1
75°	952.4	1023.4	1408.7	2553.5	4920.2	7791.0	7857.5	7480.8	6340.6	4692.8	2924.1
77.5°	405.6	425.9	577.7	1109.2	2781.5	5323.8	5415.2	5465.9	4301.9	2553.5	1235.6
80°	252.8	260.9	326.9	502.1	1301.6	2990.1	3088.6	3216.0	2136.2	938.7	431.5
82.5°	153.8	163.0	217.3	303.6	677.7	1355.4	1402.7	1492.5	829.0	405.6	223.4
85°	92.4	99.0	133.0	191.9	385.8	533.0	532.5	588.9	390.4	260.9	117.8
87.5°	44.2	49.2	71.1	99.5	194.4	200.0	187.3	212.2	237.1	171.1	59.4
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°	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3
2.5°	1510.3	1508.2	1501.6	1496.6	1495.6	1492.5	1490.0	1491.5	1493.5	1494.0	1494.0
5°	1509.8	1504.2	1495.6	1492.0	1496.6	1502.7	1510.3	1520.4	1526.5	1531.1	1534.1
7.5°	1534.1	1523.5	1513.8	1511.8	1520.9	1537.2	1554.4	1575.8	1590.5	1600.6	1602.7
10°	1574.8	1561.6	1551.9	1553.9	1570.2	1593.5	1617.9	1645.3	1667.7	1681.4	1682.4
12.5°	1621.5	1608.8	1599.6	1608.3	1635.2	1663.6	1689.0	1712.8	1733.1	1746.8	1746.8
15°	1675.3	1666.1	1655.5	1675.3	1711.8	1737.2	1747.9	1759.5	1770.7	1780.9	1778.8
17.5°	1727.0	1718.4	1712.8	1736.2	1774.3	1785.9	1778.8	1770.2	1770.2	1775.8	1776.8
20°	1771.7	1764.1	1767.7	1790.5	1810.3	1798.1	1771.7	1744.3	1733.1	1736.2	1739.2
22.5°	1810.8	1807.3	1817.9	1828.6	1814.4	1771.7	1723.0	1685.9	1672.2	1671.2	1672.2
25°	1856.5	1856.0	1869.2	1849.9	1787.0	1708.3	1642.8	1606.7	1599.1	1605.2	1615.4
27.5°	1913.4	1918.9	1925.5	1855.0	1731.1	1612.3	1545.8	1520.9	1528.6	1543.3	1552.9
30°	1986.0	2001.2	1987.0	1842.3	1650.9	1502.7	1439.2	1432.1	1452.9	1473.7	1483.9
32.5°	2056.5	2080.4	2045.9	1809.3	1547.3	1386.4	1337.2	1335.1	1360.5	1380.8	1395.0
35°	2113.4	2160.6	2090.0	1743.8	1427.5	1279.3	1243.3	1229.5	1238.7	1262.5	1278.8
37.5°	2187.5	2266.2	2120.5	1643.8	1297.6	1191.0	1148.8	1117.4	1109.2	1118.9	1127.0
40°	2323.0	2427.1	2134.7	1504.2	1170.7	1102.6	1060.0	1013.8	981.8	958.5	959.0
42.5°	2544.4	2636.8	2125.6	1334.6	1053.4	1016.3	968.1	914.8	863.0	810.2	806.2
45°	2903.8	2948.5	2098.1	1154.9	950.3	926.0	880.8	827.5	758.4	698.5	693.0
47.5°	3479.0	3380.0	2055.5	998.1	859.5	849.3	807.7	746.3	673.2	624.9	620.9
50°	4263.3	4002.9	2034.7	873.2	779.3	782.3	748.3	683.3	614.3	578.7	574.7
52.5°	5201.5	4728.3	2074.8	776.7	714.8	725.4	700.1	639.1	581.3	553.3	549.3
55°	6174.6	5479.6	2117.9	706.7	653.9	674.7	666.0	615.8	563.5	537.6	534.1
57.5°	7007.7	6040.6	2031.6	649.8	599.5	632.0	639.6	601.1	554.4	531.0	526.9
60°	7532.1	6266.5	1805.2	596.5	556.4	598.0	624.4	597.0	557.9	555.9	552.8
62.5°	7780.9	6246.7	1465.6	554.4	529.5	583.3	635.6	619.8	598.5	616.8	618.3
65°	7669.2	5948.2	1091.5	526.4	510.2	588.9	669.1	663.0	610.2	628.5	631.0
67.5°	6934.1	5236.0	808.2	502.1	488.9	604.6	730.0	677.2	587.4	600.6	592.4
70°	5604.5	4151.1	623.4	474.7	467.0	602.6	757.4	668.6	562.5	565.5	543.7
72.5°	3864.8	2830.7	507.1	449.3	435.6	549.3	738.1	647.3	541.7	518.3	489.4
75°	2101.7	1519.4	431.0	422.9	380.2	482.3	702.6	632.0	522.9	491.9	475.7
77.5°	827.0	630.5	374.1	386.8	332.5	425.9	663.0	603.1	497.0	456.4	448.3
80°	337.6	321.9	310.2	334.5	285.8	372.6	615.3	569.1	466.0	423.4	407.1
82.5°	191.4	200.0	241.1	264.0	232.0	343.2	592.4	541.7	429.0	379.2	359.9
85°	98.0	117.3	168.0	189.4	170.6	291.9	545.7	474.2	344.2	290.4	291.9
87.5°	47.2	65.5	106.1	118.8	110.7	211.2	407.6	343.7	268.0	212.2	205.6
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)