

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: P323506

Luminaire Tested: **GAN-SA2A-740-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8146 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

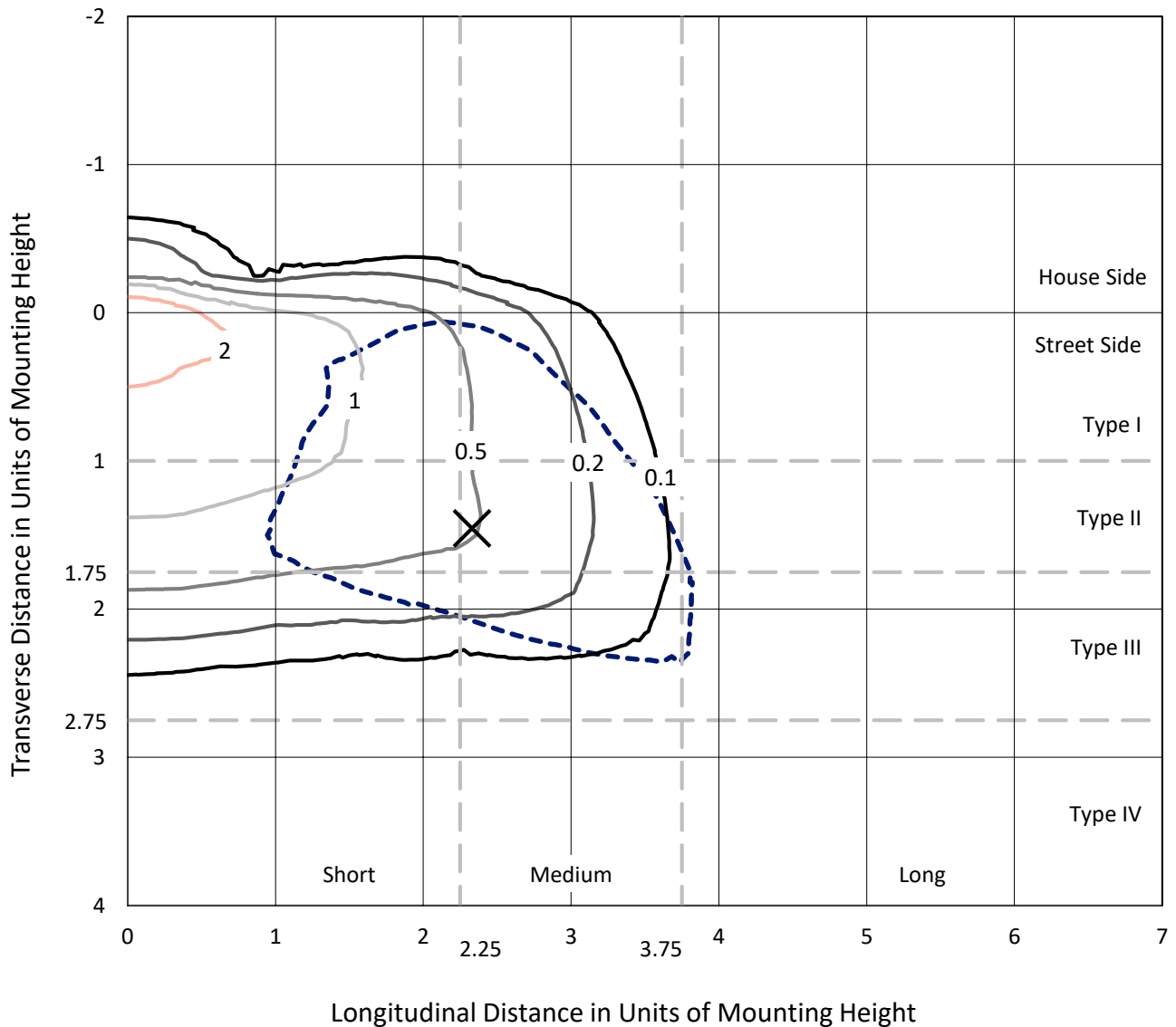
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323506
 CATALOG NUMBER: GAN-SA2A-740-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

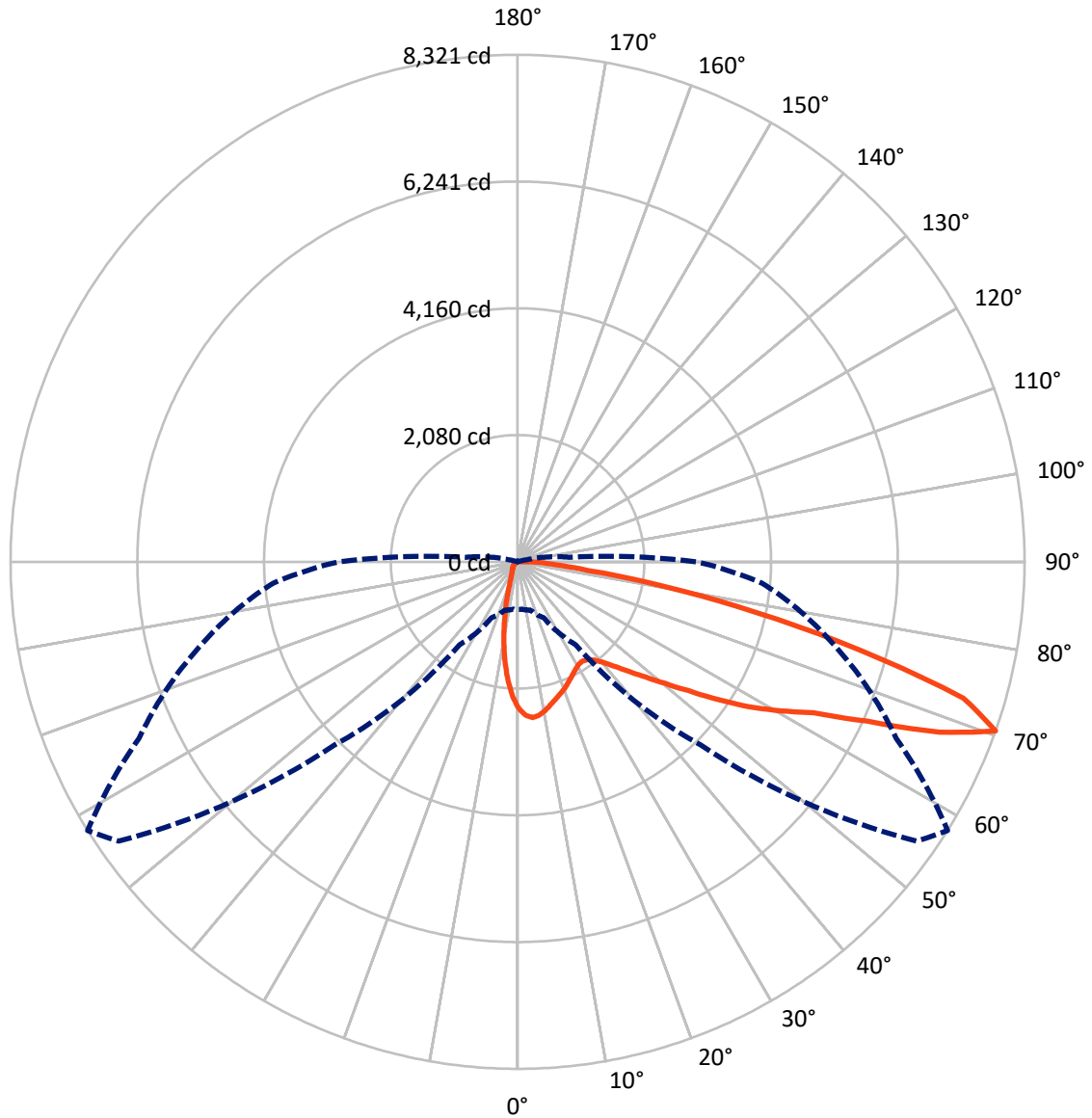
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P323506
CATALOG NUMBER: GAN-SA2A-740-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P323506
 CATALOG NUMBER: GAN-SA2A-740-U-SL3-HSS

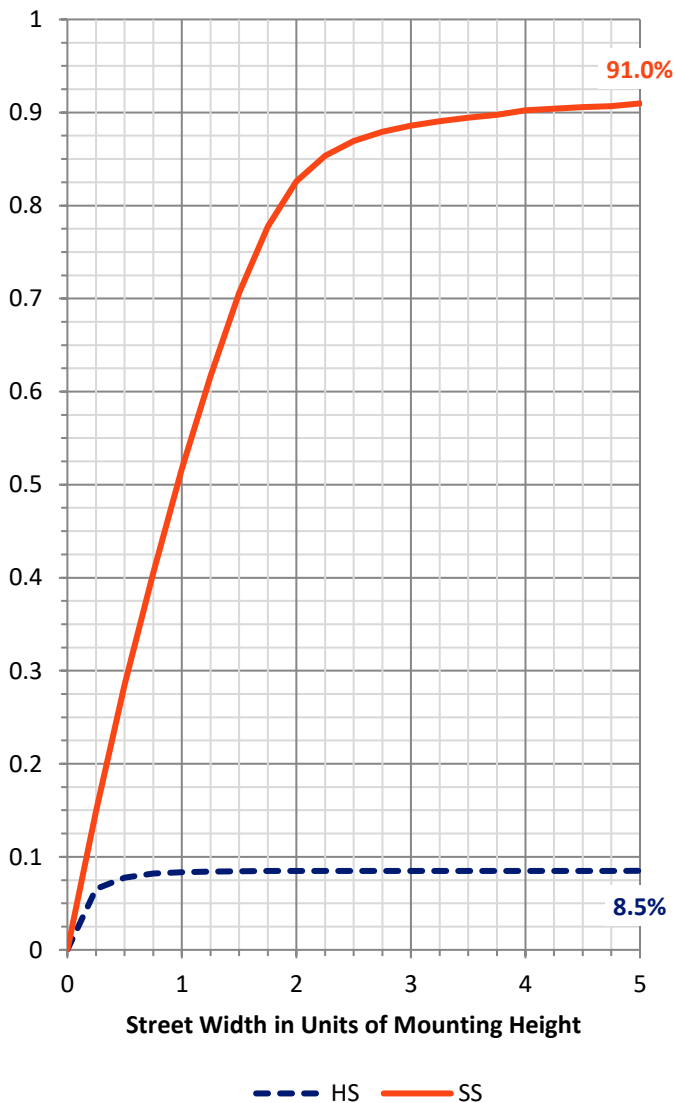
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	697.1	0.0	697.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	7448.9	0.0	7448.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	8146.0	0.0	8146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	2.4
10°-20°	413.0	5.1
20°-30°	542.9	6.7
30°-40°	719.0	8.8
40°-50°	1074.8	13.2
50°-60°	1721.7	21.1
60°-70°	2170.2	26.6
70°-80°	1170.6	14.4
80°-90°	137.0	1.7
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°	8146.0	100.0
0°-180°	8146.0	100.0

Coefficient of Utilization

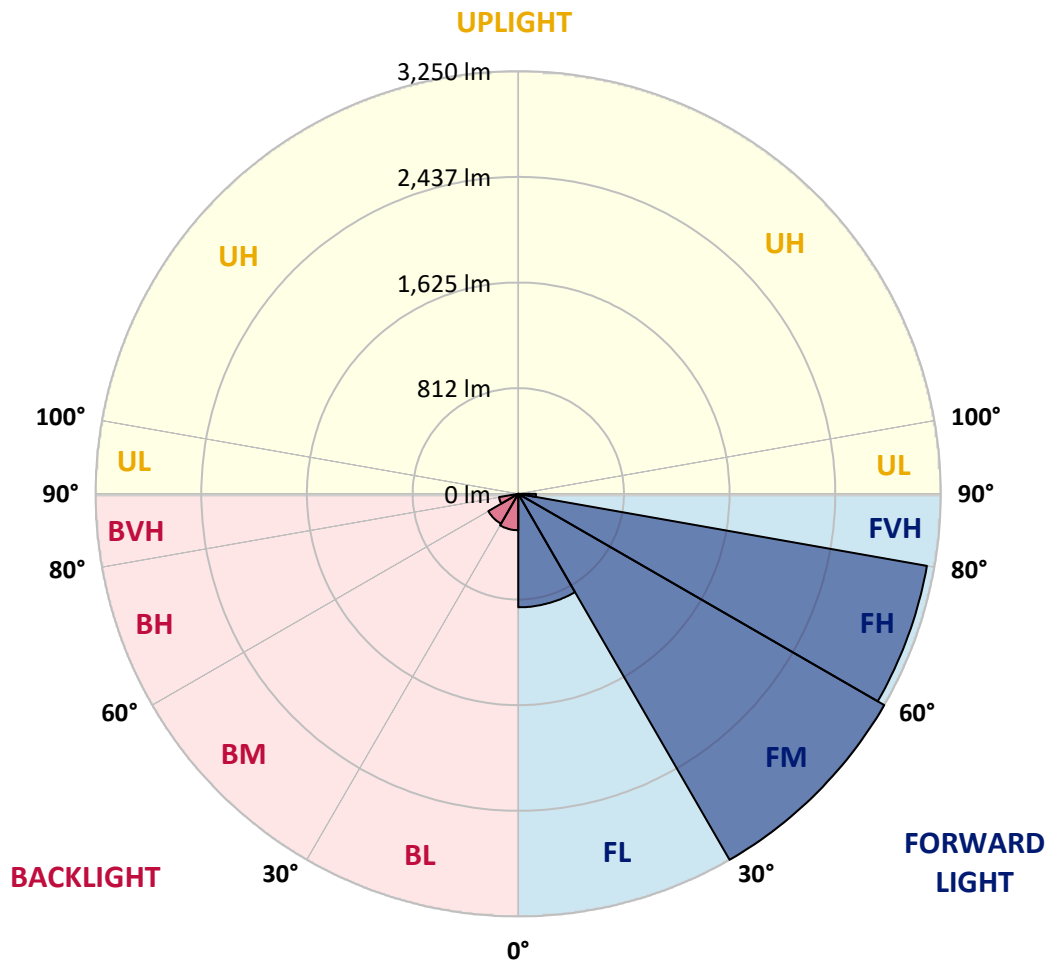


REPORT NUMBER: P323506
 CATALOG NUMBER: GAN-SA2A-740-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.6	10.7			
FM (30°-60°)	3249.6	39.9			
FH (60°-80°)	3190.9	39.2			G2/5000
FVH (80°-90°)	135.8	1.7			G2/225
BL (0°-30°)	280.1	3.4	B1/500		
BM (30°-60°)	265.9	3.3	B1/1000		
BH (60°-80°)	149.9	1.8	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





REPORT NUMBER: P323506
 CATALOG NUMBER: GAN-SA2A-740-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3
2.5°	2605.8	2599.4	2597.0	2592.9	2577.3	2562.1	2532.0	2523.5	2504.5	2459.5	2411.7
5°	2607.8	2607.5	2614.6	2612.9	2607.5	2600.4	2578.7	2567.5	2535.3	2471.0	2383.6
7.5°	2482.2	2488.6	2504.5	2517.4	2532.3	2551.6	2554.3	2543.5	2517.1	2447.6	2331.8
10°	2313.5	2323.6	2346.0	2371.4	2410.4	2449.0	2483.5	2482.2	2473.0	2404.6	2269.4
12.5°	2144.5	2156.3	2182.1	2219.7	2274.9	2337.9	2399.5	2408.0	2423.2	2366.0	2211.9
15°	1996.4	2006.6	2032.0	2078.1	2146.5	2231.2	2321.6	2337.2	2376.5	2335.8	2163.8
17.5°	1870.8	1877.2	1895.8	1947.0	2026.2	2128.9	2246.4	2276.9	2335.5	2312.1	2122.1
20°	1783.0	1784.1	1796.2	1832.2	1911.4	2026.2	2168.5	2212.2	2292.1	2291.8	2079.1
22.5°	1739.7	1736.3	1738.7	1759.3	1817.6	1928.4	2090.6	2142.4	2253.2	2274.5	2035.4
25°	1731.6	1728.8	1722.1	1724.8	1760.0	1842.7	2012.0	2072.0	2219.0	2264.0	1997.5
27.5°	1757.0	1759.7	1748.2	1736.0	1738.7	1787.1	1942.2	2011.7	2191.2	2264.0	1970.7
30°	1808.1	1809.5	1801.0	1785.1	1763.7	1771.5	1893.8	1963.2	2177.3	2279.6	1953.8
32.5°	1864.7	1872.1	1871.1	1858.2	1827.8	1796.2	1882.3	1945.6	2176.3	2314.2	1952.1
35°	1934.8	1943.3	1957.5	1954.8	1922.9	1871.1	1921.6	1971.4	2196.3	2371.1	1970.4
37.5°	2009.3	2022.2	2052.7	2067.2	2046.6	1988.0	2009.6	2045.2	2249.8	2463.2	2016.8
40°	2081.5	2096.0	2151.6	2208.8	2193.2	2132.9	2143.1	2171.6	2345.0	2595.6	2104.8
42.5°	2152.2	2173.9	2255.6	2349.7	2368.4	2320.3	2325.7	2348.4	2486.2	2777.9	2248.8
45°	2236.9	2261.3	2382.2	2498.4	2548.2	2527.2	2550.2	2565.2	2670.8	3018.7	2442.9
47.5°	2361.2	2389.4	2537.7	2670.2	2757.5	2771.1	2817.5	2827.3	2904.2	3299.2	2695.9
50°	2603.8	2611.6	2745.7	2865.9	2991.9	3073.2	3126.1	3133.5	3186.7	3605.7	3011.9
52.5°	2909.0	2914.0	2989.9	3070.5	3213.8	3379.8	3503.4	3513.9	3525.1	3904.5	3323.9
55°	3212.1	3211.4	3261.6	3309.0	3472.9	3714.1	3982.4	3988.8	3908.5	4188.0	3562.4
57.5°	3401.5	3419.7	3496.0	3556.9	3785.9	4095.2	4467.4	4491.1	4311.3	4398.0	3798.1
60°	3341.2	3350.0	3519.0	3744.6	4175.8	4636.8	4958.2	4964.3	4614.1	4607.7	4096.2
62.5°	2846.6	2851.4	3116.9	3582.0	4373.3	5339.3	5550.3	5451.1	4962.3	4898.6	4452.9
65°	1951.0	1981.9	2203.7	2778.5	4010.5	5780.0	6466.9	6302.6	5493.1	5318.0	4775.3
67.5°	1148.9	1142.5	1252.3	1675.7	2945.5	5487.3	7626.4	7463.1	6216.9	5598.8	4680.8
70°	784.8	780.4	822.4	1014.5	1662.8	4256.7	7991.2	8320.7	6856.1	5409.7	4028.4
72.5°	560.2	562.6	624.6	788.2	1043.9	2480.1	6872.0	7652.1	6655.9	4716.0	3062.1
75°	380.4	386.8	475.6	646.6	915.2	1261.7	4876.6	5816.9	5419.9	3427.5	1760.0
77.5°	204.6	211.7	316.4	521.0	827.5	876.6	3136.9	4003.4	3404.5	1540.9	510.1
80°	85.4	89.4	148.0	378.7	715.0	769.9	1845.7	2427.6	1450.8	303.8	113.8
82.5°	36.9	39.0	61.6	225.9	534.5	650.0	977.2	1167.9	439.7	66.7	57.2
85°	7.1	7.5	25.4	119.6	341.1	366.8	633.4	620.9	197.5	28.8	41.7
87.5°	0.0	0.0	6.1	37.6	100.3	199.8	386.5	381.7	67.1	13.9	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323506
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3
2.5°	2387.3	2363.9	2314.8	2254.2	2207.8	2156.7	2116.0	2064.5	2042.2	2043.2	2031.0
5°	2333.8	2285.7	2177.0	2039.8	1934.1	1825.0	1731.2	1637.7	1582.5	1564.6	1547.6
7.5°	2257.3	2181.0	2007.6	1796.2	1617.4	1442.6	1290.5	1156.7	1072.1	1030.7	1015.5
10°	2170.9	2063.8	1812.8	1534.4	1279.0	1042.6	845.5	674.1	605.6	559.2	547.4
12.5°	2095.0	1950.0	1622.5	1265.8	962.7	677.4	489.5	382.8	336.4	318.1	315.0
15°	2023.5	1843.7	1439.2	1022.6	666.6	417.0	311.3	275.0	264.2	261.2	261.2
17.5°	1956.1	1742.4	1260.1	783.1	441.0	292.3	257.8	249.6	246.3	245.9	246.3
20°	1885.7	1641.1	1083.9	573.8	307.9	247.6	238.1	233.7	232.7	232.7	232.7
22.5°	1818.3	1539.8	912.5	409.9	246.9	225.9	221.2	218.1	217.1	216.8	216.1
25°	1753.6	1443.6	745.2	289.6	216.8	207.0	202.9	198.8	195.8	194.1	193.1
27.5°	1700.4	1357.9	589.4	232.4	195.8	187.3	182.2	176.1	168.7	165.3	163.9
30°	1658.1	1279.7	454.2	196.1	176.1	167.7	159.9	149.4	138.5	132.8	132.4
32.5°	1624.9	1202.8	344.8	173.4	158.5	148.0	136.8	123.6	111.1	104.7	104.3
35°	1608.6	1135.1	263.5	156.8	142.9	129.7	115.8	101.3	89.1	83.0	82.3
37.5°	1619.4	1077.8	205.6	142.9	129.7	114.5	98.2	83.0	72.1	66.7	66.4
40°	1659.1	1041.2	167.0	131.1	118.6	99.9	82.3	68.1	58.9	54.5	54.2
42.5°	1743.4	1027.7	142.6	121.3	107.7	86.4	68.4	56.2	47.8	44.7	44.0
45°	1884.3	1047.7	126.0	111.8	96.5	73.5	56.6	46.1	38.6	36.2	35.9
47.5°	2072.0	1100.2	114.1	102.6	86.4	62.0	47.1	37.3	31.5	29.1	28.8
50°	2313.8	1183.5	104.3	93.5	76.9	52.5	39.0	29.5	24.4	22.7	22.7
52.5°	2577.0	1282.7	95.5	85.0	67.4	43.7	31.5	22.7	19.3	17.3	17.3
55°	2794.5	1369.5	86.0	78.6	55.9	36.2	24.0	17.3	14.2	13.2	13.2
57.5°	3011.6	1461.9	75.2	67.4	44.7	29.5	18.3	12.9	10.5	9.8	9.8
60°	3293.1	1575.1	64.7	54.9	35.2	22.4	13.5	9.1	7.8	7.5	7.5
62.5°	3602.7	1641.5	55.2	44.0	27.4	16.6	9.8	6.1	5.8	5.8	5.4
65°	3792.0	1547.6	46.4	35.2	21.3	12.5	6.4	4.4	5.1	4.7	4.1
67.5°	3550.5	1211.6	37.9	27.4	16.6	9.5	4.1	3.0	5.4	4.4	3.4
70°	2939.8	848.2	29.5	19.3	13.2	8.1	2.7	2.0	5.8	4.4	2.7
72.5°	2200.0	567.7	23.4	12.9	9.8	7.1	2.4	1.0	5.1	3.7	2.4
75°	1202.1	228.6	18.6	8.1	6.1	5.1	1.7	0.7	3.4	2.7	1.7
77.5°	316.4	60.3	13.5	5.4	3.4	2.0	1.0	0.3	1.7	1.4	0.7
80°	80.6	23.4	8.8	3.7	2.4	1.0	0.0	0.0	0.3	0.0	0.0
82.5°	43.0	9.8	5.4	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.5	6.4	3.0	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)