

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: P322189

Luminaire Tested: **GAN-SA5A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15457 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

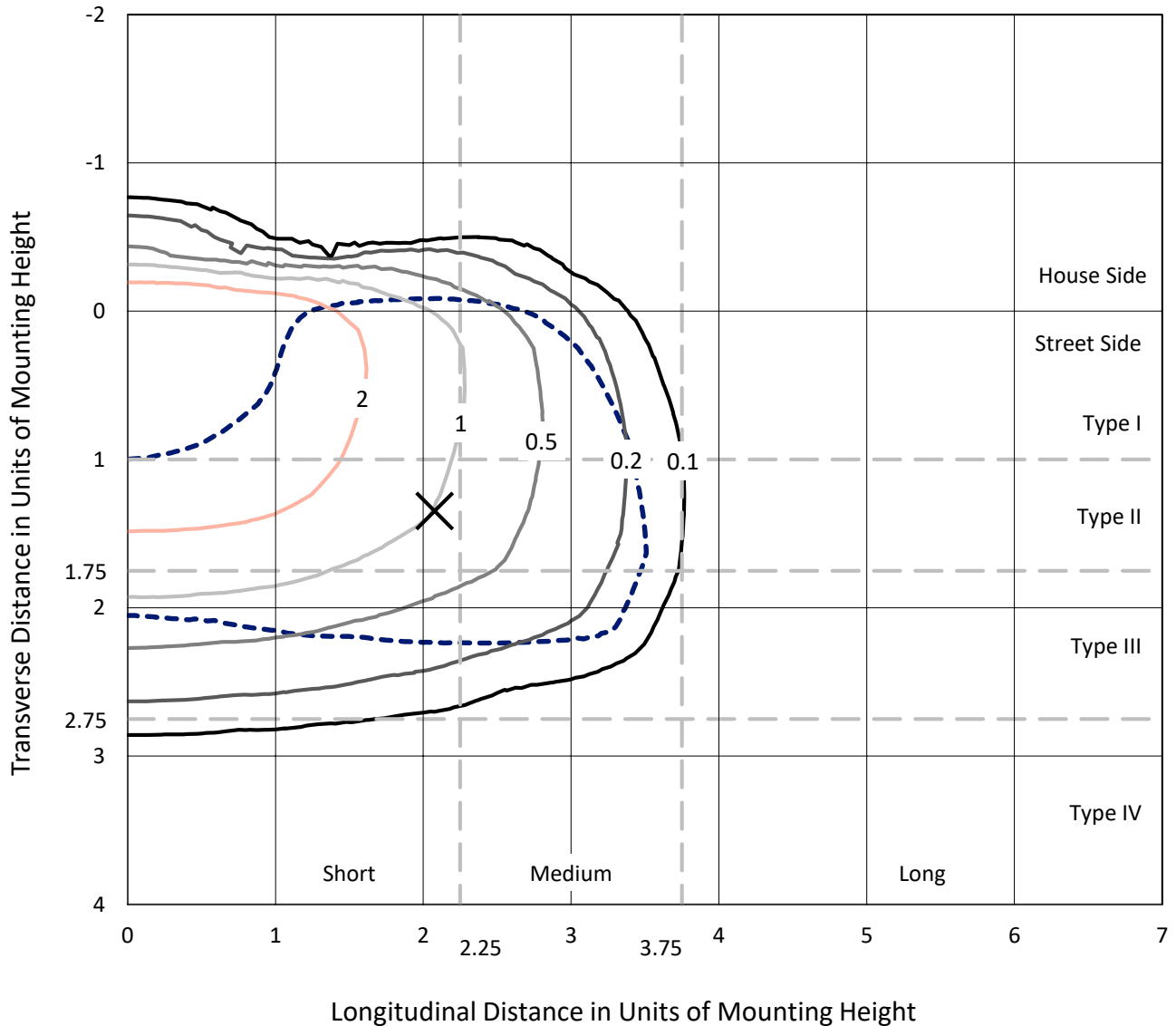
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

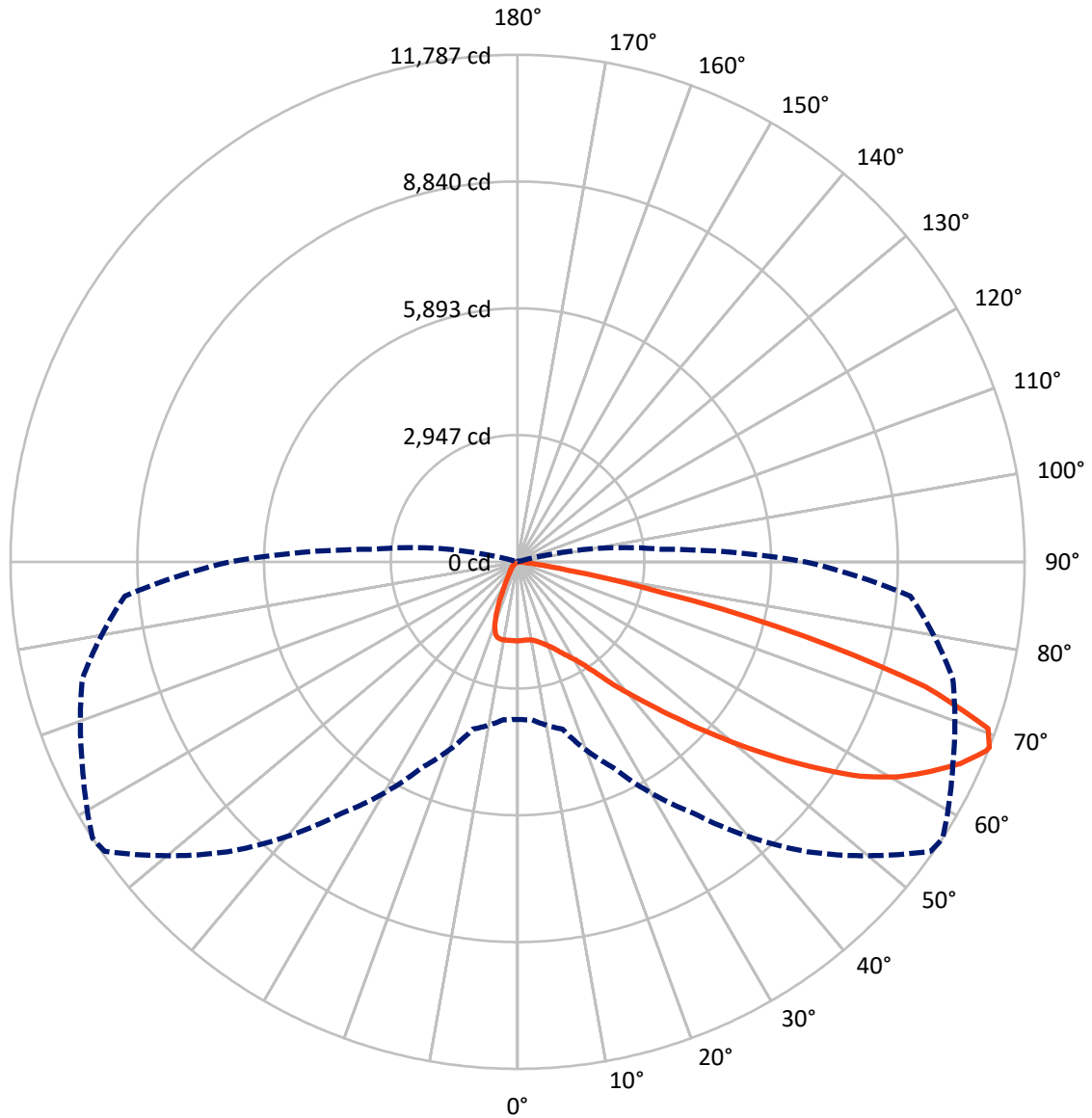
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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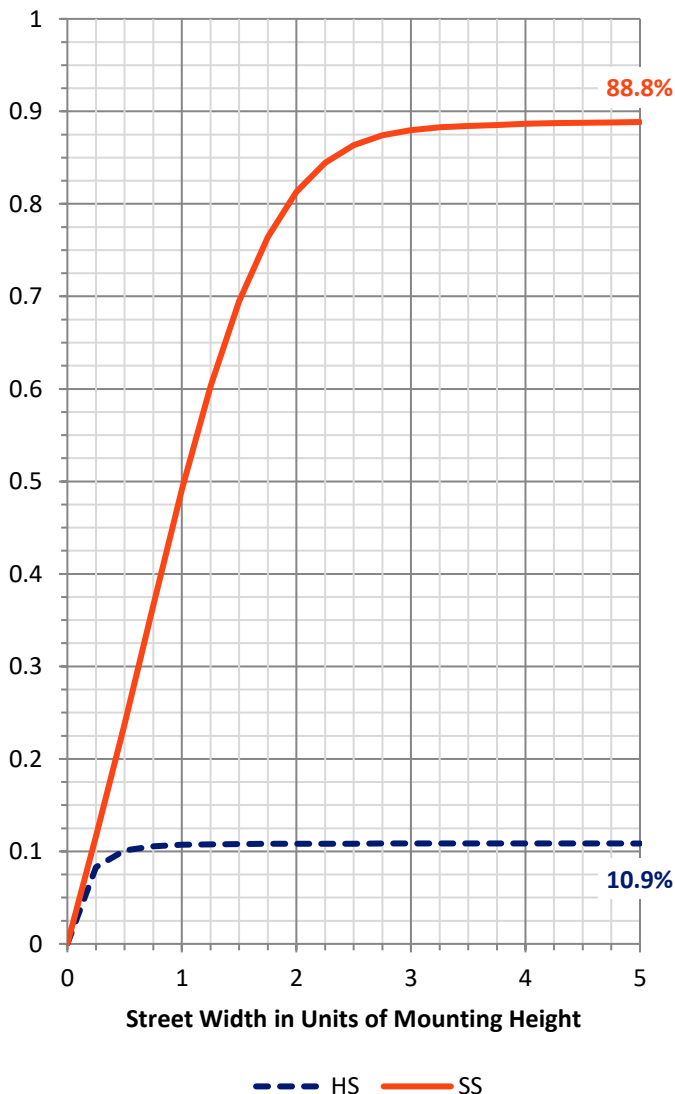
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1695.0	0.0	1695.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	13762.1	0.0	13762.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	15457.0	0.0	15457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.1
10°-20°	476.3	3.1
20°-30°	821.7	5.3
30°-40°	1418.2	9.2
40°-50°	2425.9	15.7
50°-60°	3881.1	25.1
60°-70°	4484.2	29.0
70°-80°	1713.5	11.1
80°-90°	64.2	0.4
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°	15457.0	100.0
0°-180°	15457.0	100.0

Coefficient of Utilization

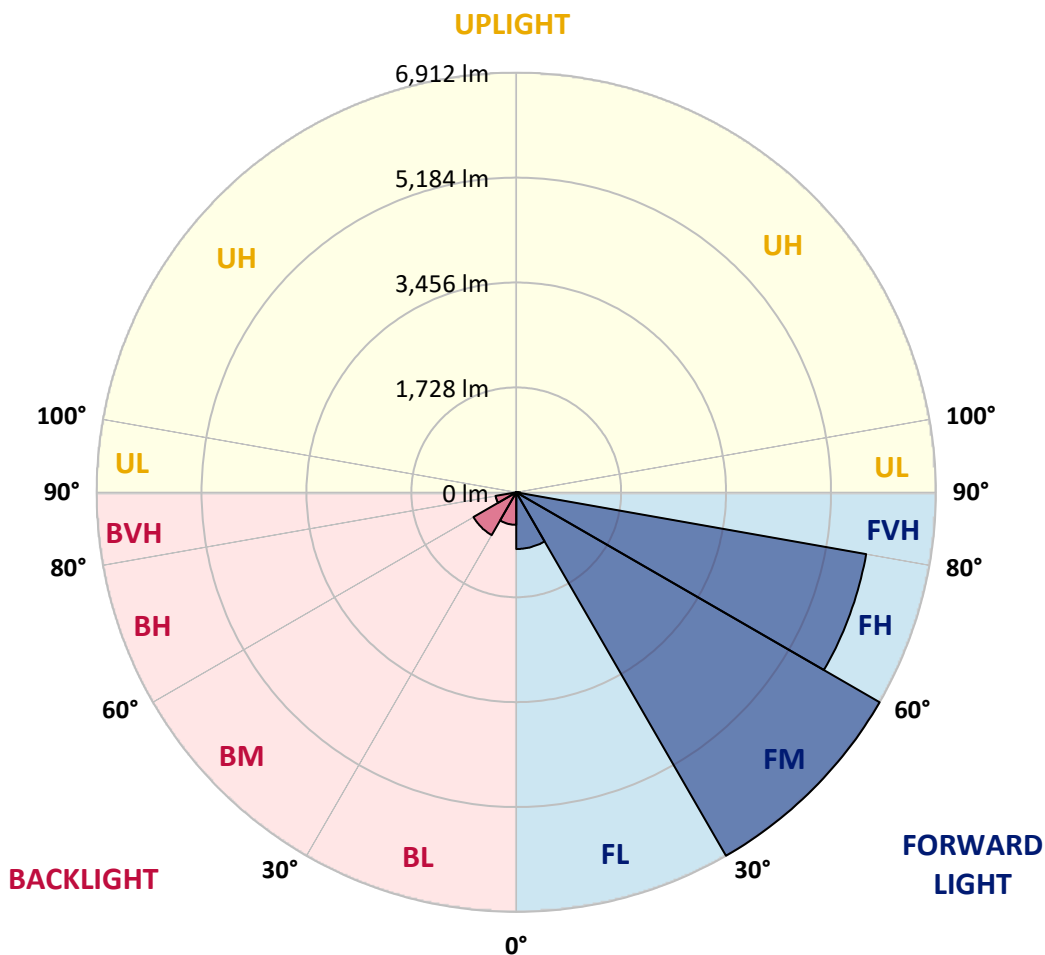


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.2	6.0			
FM (30°-60°)	6912.2	44.7			
FH (60°-80°)	5852.5	37.9			G3/7500
FVH (80°-90°)	63.1	0.4			G1/100
BL (0°-30°)	535.7	3.5	B2/1000		
BM (30°-60°)	812.9	5.3	B1/1000		
BH (60°-80°)	345.2	2.2	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: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7
2.5°	1793.6	1801.6	1807.5	1811.1	1815.5	1825.0	1827.9	1832.3	1834.5	1834.5	1839.6
5°	1722.7	1731.5	1743.9	1754.1	1774.6	1800.9	1819.9	1827.2	1840.4	1852.0	1858.6
7.5°	1656.9	1667.1	1681.8	1705.9	1741.0	1783.3	1822.8	1833.0	1858.6	1883.5	1895.9
10°	1614.5	1622.6	1641.6	1675.9	1722.0	1781.2	1836.7	1849.1	1893.0	1934.6	1958.0
12.5°	1599.9	1607.2	1626.9	1665.7	1722.7	1792.1	1868.9	1887.1	1951.4	2012.1	2045.0
15°	1621.1	1622.6	1643.7	1680.3	1736.6	1819.2	1922.2	1944.1	2025.3	2104.2	2145.1
17.5°	1702.9	1696.4	1707.3	1723.4	1768.0	1855.0	1978.5	2011.4	2119.5	2212.4	2251.1
20°	1907.6	1907.6	1882.7	1838.9	1839.6	1910.5	2054.5	2091.8	2224.1	2331.5	2366.6
22.5°	2257.7	2251.1	2201.4	2094.0	1995.3	2006.3	2147.3	2195.6	2349.8	2464.5	2476.2
25°	2678.7	2670.6	2593.9	2442.6	2271.6	2161.2	2273.0	2328.6	2499.6	2601.2	2577.1
27.5°	3124.5	3117.9	3041.9	2854.1	2610.7	2408.2	2422.9	2475.5	2652.4	2752.5	2675.7
30°	3556.5	3558.7	3483.4	3290.4	3014.9	2723.3	2612.9	2643.6	2800.7	2902.3	2792.7
32.5°	3967.2	3970.1	3905.1	3689.5	3432.2	3089.4	2876.0	2868.0	2973.2	3073.3	2947.6
35°	4333.4	4340.7	4296.1	4128.7	3856.1	3497.3	3217.3	3198.3	3218.1	3331.3	3185.2
37.5°	4686.4	4690.8	4657.2	4516.1	4288.1	3945.3	3648.5	3621.5	3579.1	3666.1	3498.7
40°	5073.0	5062.1	5023.3	4895.4	4699.6	4440.1	4111.9	4065.1	3991.3	4068.8	3910.9
42.5°	5432.6	5420.2	5426.8	5282.1	5116.9	4948.8	4652.0	4571.6	4528.5	4617.7	4416.7
45°	5882.1	5875.5	5897.5	5771.8	5638.0	5515.9	5271.1	5183.4	5164.4	5268.9	5028.4
47.5°	6325.8	6341.8	6409.8	6356.5	6302.4	6194.9	5926.7	5887.2	5898.9	6025.4	5673.8
50°	6695.6	6714.6	6901.0	6962.4	7040.6	6977.7	6708.7	6684.6	6730.7	6844.7	6368.1
52.5°	6963.1	7001.8	7233.5	7516.4	7801.4	7843.8	7575.6	7553.6	7615.8	7633.3	6904.6
55°	7148.7	7183.1	7445.5	7962.9	8543.2	8726.0	8559.3	8474.5	8462.8	8289.6	7468.9
57.5°	7181.6	7178.0	7555.1	8251.6	9125.0	9596.4	9491.2	9407.9	9168.1	8896.3	8115.7
60°	6996.0	7017.2	7455.0	8351.8	9490.5	10255.0	10263.0	10154.8	9781.4	9486.1	8742.8
62.5°	6424.4	6510.7	6952.9	8089.4	9486.1	10520.3	10828.7	10746.1	10299.5	9969.2	9378.6
65°	5497.7	5528.4	5950.1	7190.4	8845.1	10409.2	11338.1	11307.4	10766.6	10438.4	9705.3
67.5°	4014.7	3948.2	4391.1	5662.1	7488.6	9761.6	11703.6	11742.3	11126.9	10534.9	9357.4
68°	3663.9	3683.6	4028.6	5284.3	7133.4	9532.9	11727.7	11786.9	11162.7	10472.0	9167.4
70°	2183.9	2221.9	2529.6	3638.3	5426.8	8238.5	11467.5	11602.7	10949.3	9823.7	7929.3
72.5°	557.7	603.0	893.9	1628.4	3099.7	5804.6	9680.5	9909.3	9506.5	7969.5	5353.0
75°	229.5	241.2	319.4	536.5	1154.8	2615.1	6380.6	6870.3	6590.3	4771.2	2419.2
77.5°	158.6	166.6	205.4	297.5	499.9	886.6	3128.2	3481.9	3136.9	1628.4	527.7
80°	114.0	120.6	146.9	198.1	287.2	316.5	1019.6	1178.9	936.3	357.4	130.8
82.5°	68.0	73.1	109.6	141.1	174.7	151.3	253.6	288.0	271.2	177.6	58.5
85°	33.6	39.5	73.8	100.9	94.3	63.6	77.5	86.2	106.7	108.2	31.4
87.5°	2.2	4.4	43.1	60.7	26.3	14.6	22.7	27.8	38.0	53.4	13.2
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°	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7
2.5°	1841.8	1842.5	1837.4	1835.2	1836.7	1827.9	1824.3	1825.7	1825.7	1827.9	1824.3
5°	1860.1	1860.1	1851.3	1839.6	1833.0	1816.2	1805.3	1802.3	1800.2	1798.7	1795.8
7.5°	1899.6	1895.2	1879.8	1854.2	1832.3	1795.8	1768.0	1753.4	1746.1	1743.1	1741.0
10°	1963.1	1955.1	1929.5	1882.0	1831.6	1766.5	1705.9	1662.7	1626.9	1612.3	1603.5
12.5°	2048.7	2037.0	1993.8	1914.9	1826.5	1706.6	1575.0	1448.6	1330.9	1282.7	1258.6
15°	2147.3	2130.5	2062.5	1942.7	1796.5	1571.4	1285.6	1064.2	901.2	839.8	813.5
17.5°	2247.5	2225.5	2122.5	1960.2	1706.6	1291.5	901.9	681.2	572.3	543.0	532.8
20°	2348.3	2316.2	2174.4	1947.1	1503.4	931.1	594.9	497.7	466.3	457.5	454.6
22.5°	2444.1	2394.4	2221.1	1895.9	1190.6	624.9	470.7	440.0	429.8	424.6	423.2
25°	2527.4	2457.9	2262.1	1738.0	842.7	472.1	423.9	413.7	400.5	391.0	391.8
27.5°	2605.6	2521.5	2286.9	1477.8	562.0	403.4	392.5	378.6	354.5	340.6	340.6
30°	2699.9	2606.3	2305.2	1137.2	413.7	356.7	347.9	326.7	293.8	275.5	275.5
32.5°	2841.7	2734.9	2293.5	798.1	342.8	313.5	293.1	263.8	228.0	210.5	209.8
35°	3058.7	2933.7	2210.2	523.3	302.6	272.6	239.7	203.9	172.5	157.9	157.1
37.5°	3351.1	3199.8	2023.1	374.2	271.2	234.6	195.1	155.7	132.3	122.8	122.1
40°	3730.4	3509.0	1755.6	303.3	241.9	198.1	150.6	120.6	104.5	97.2	97.9
42.5°	4185.7	3840.0	1434.7	261.7	213.4	163.0	117.7	95.0	84.8	79.7	78.2
45°	4691.5	4166.7	1098.5	233.2	184.9	131.6	92.1	75.3	67.2	64.3	64.3
47.5°	5247.7	4484.7	804.0	208.3	154.2	101.6	73.8	61.4	54.8	52.6	51.9
50°	5752.7	4705.4	579.6	182.0	126.4	80.4	59.9	51.2	46.8	43.9	43.9
52.5°	6173.7	4774.8	426.8	153.5	102.3	64.3	49.7	43.9	39.5	37.3	37.3
55°	6544.3	4746.3	317.2	126.4	82.6	52.6	42.4	37.3	33.6	31.4	31.4
57.5°	6899.5	4654.2	236.8	103.1	66.5	42.4	35.8	31.4	27.8	26.3	26.3
60°	7189.7	4500.8	176.1	83.3	53.4	34.4	30.0	25.6	22.7	20.5	20.5
62.5°	7425.0	4331.2	129.4	68.7	42.4	27.0	23.4	21.2	16.8	14.6	14.6
65°	7426.5	4049.8	97.2	57.0	32.9	21.2	17.5	16.8	11.0	8.8	8.0
67.5°	6889.3	3491.4	74.5	49.0	25.6	16.1	13.2	13.9	5.8	3.7	2.9
68°	6694.1	3349.6	70.2	48.2	24.1	15.3	12.4	13.9	5.1	2.9	2.2
70°	5643.8	2664.8	56.3	46.8	21.2	11.7	10.2	13.9	4.4	2.2	1.5
72.5°	3609.8	1546.5	41.7	37.3	16.1	8.8	6.6	12.4	4.4	1.5	0.7
75°	1536.3	479.5	28.5	26.3	9.5	6.6	4.4	8.0	2.9	0.7	0.0
77.5°	323.8	108.2	16.8	16.1	6.6	4.4	2.9	2.2	0.7	0.0	0.0
80°	83.3	31.4	8.8	8.0	3.7	2.2	1.5	0.0	0.0	0.0	0.0
82.5°	26.3	12.4	5.1	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.2	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	2.2	0.7	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)