

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: P322229

Luminaire Tested: **GAN-SA5A-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322229
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-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 16974 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

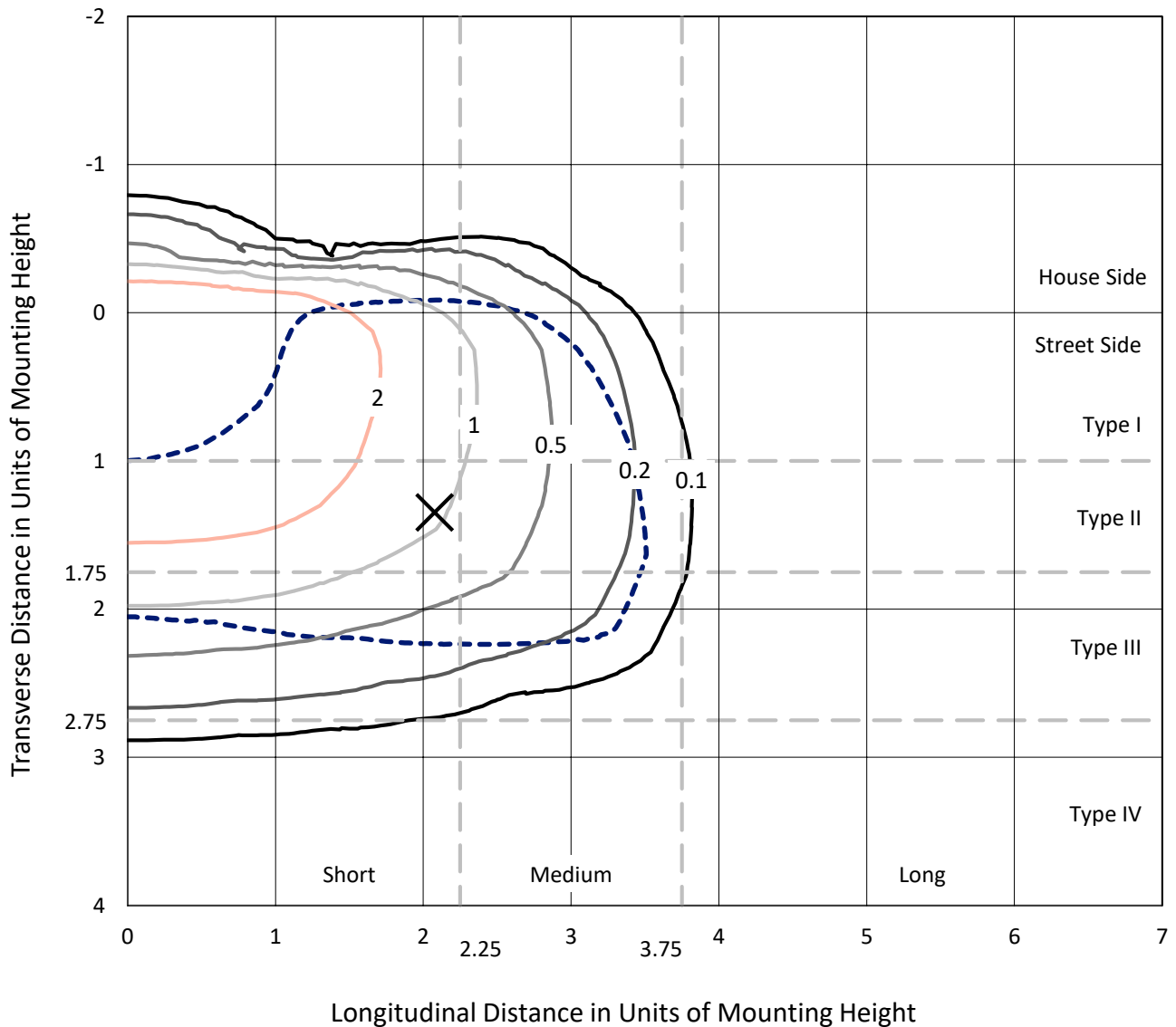
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

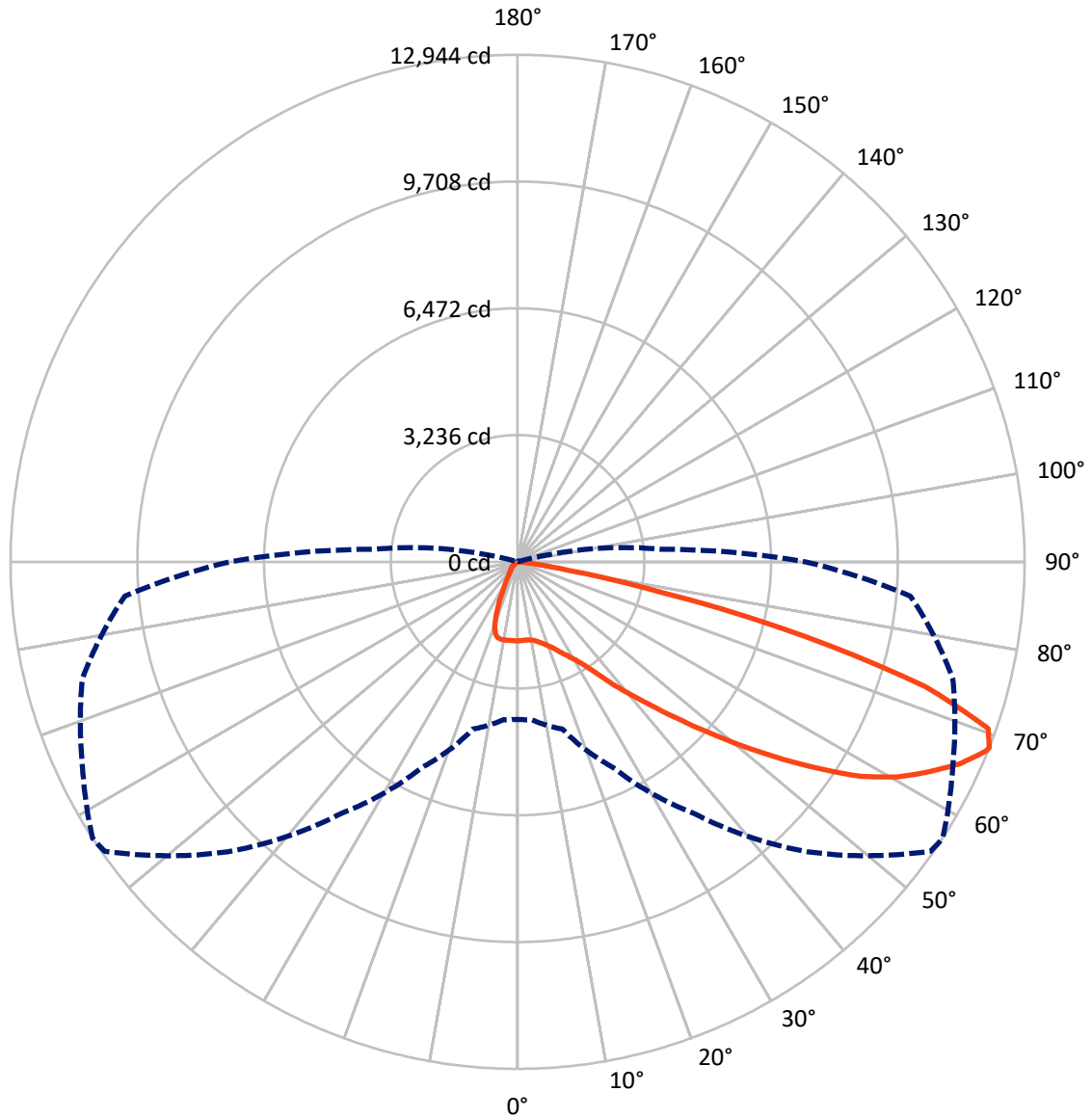
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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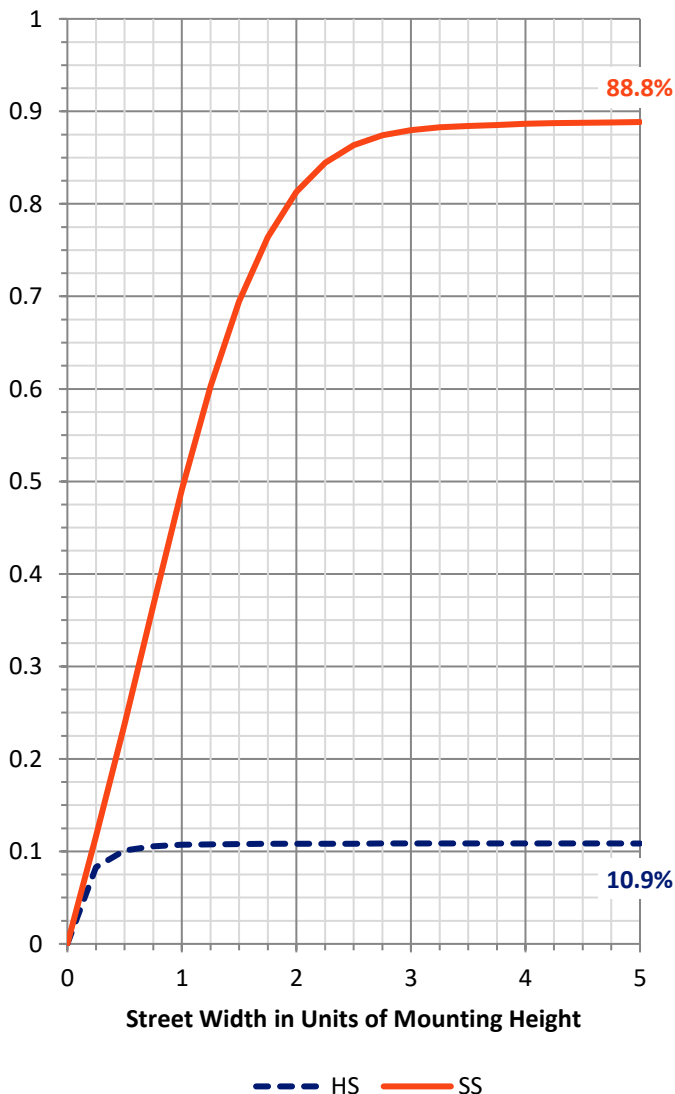
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1861.3	0.0	1861.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	15112.7	0.0	15112.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	16974.0	0.0	16974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	1.1
10°-20°	523.1	3.1
20°-30°	902.3	5.3
30°-40°	1557.4	9.2
40°-50°	2663.9	15.7
50°-60°	4262.0	25.1
60°-70°	4924.3	29.0
70°-80°	1881.6	11.1
80°-90°	70.5	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°	16974.0	100.0
0°-180°	16974.0	100.0

Coefficient of Utilization



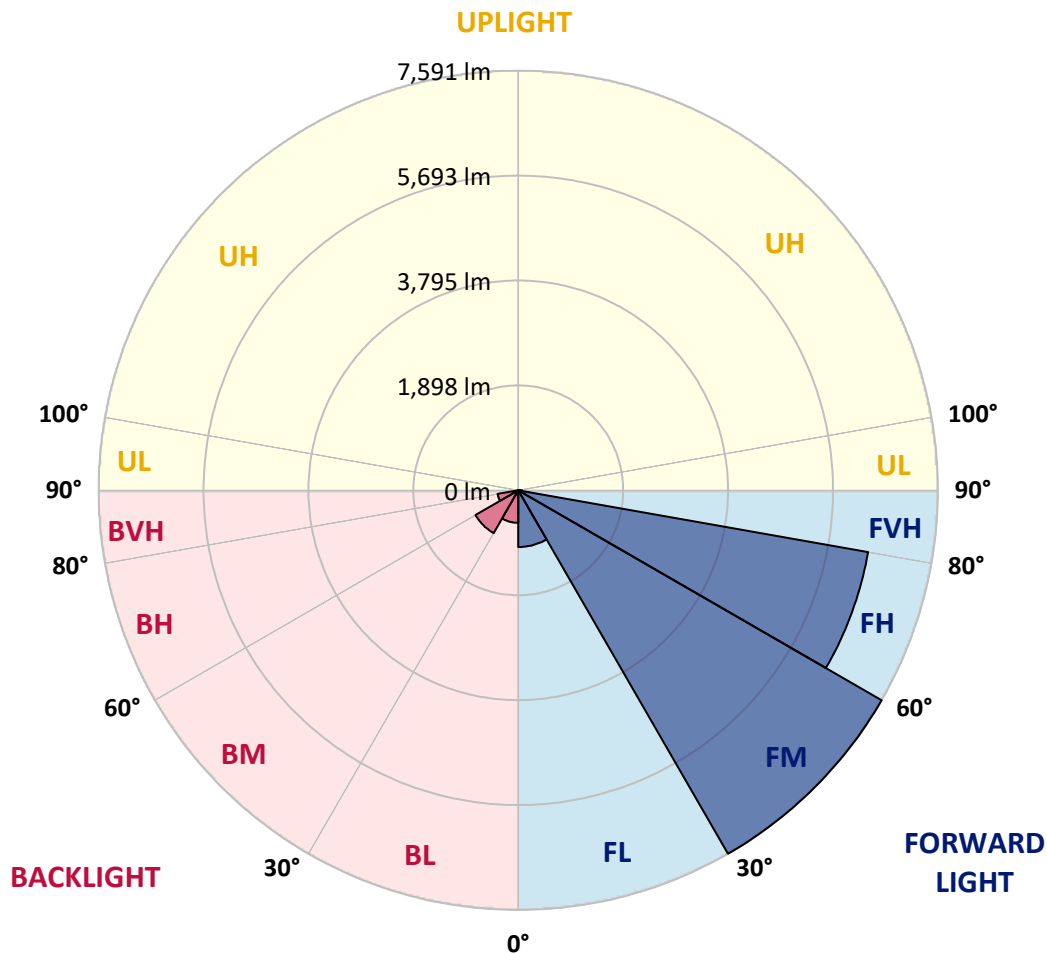
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.9	6.0			
FM (30°-60°)	7590.6	44.7			
FH (60°-80°)	6426.9	37.9			G3/7500
FVH (80°-90°)	69.2	0.4			G1/100
BL (0°-30°)	588.2	3.5	B2/1000		
BM (30°-60°)	892.7	5.3	B1/1000		
BH (60°-80°)	379.1	2.2	B1/500		G1/500
BVH (80°-90°)	1.3	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°	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0
2.5°	1969.6	1978.4	1984.9	1988.9	1993.7	2004.1	2007.3	2012.1	2014.6	2014.6	2020.2
5°	1891.8	1901.4	1915.0	1926.3	1948.7	1977.6	1998.5	2006.5	2021.0	2033.8	2041.0
7.5°	1819.5	1830.8	1846.8	1873.3	1911.8	1958.4	2001.7	2012.9	2041.0	2068.3	2082.0
10°	1773.0	1781.8	1802.7	1840.4	1890.9	1956.0	2017.0	2030.6	2078.8	2124.5	2150.2
12.5°	1756.9	1764.9	1786.6	1829.1	1891.8	1968.0	2052.3	2072.3	2143.0	2209.6	2245.7
15°	1780.2	1781.8	1805.1	1845.2	1907.0	1997.7	2110.9	2134.9	2224.0	2310.7	2355.7
17.5°	1870.1	1862.9	1874.9	1892.6	1941.5	2037.0	2172.7	2208.8	2327.6	2429.5	2472.0
20°	2094.8	2094.8	2067.5	2019.4	2020.2	2098.0	2256.1	2297.1	2442.3	2560.3	2598.9
22.5°	2479.3	2472.0	2417.5	2299.5	2191.1	2203.2	2358.1	2411.0	2580.4	2706.4	2719.2
25°	2941.6	2932.7	2848.5	2682.3	2494.5	2373.3	2496.1	2557.1	2744.9	2856.5	2830.0
27.5°	3431.2	3423.9	3340.5	3134.2	2866.9	2644.6	2660.7	2718.4	2912.7	3022.6	2938.4
30°	3905.5	3907.9	3825.2	3613.3	3310.8	2990.5	2869.3	2903.0	3075.6	3187.2	3066.8
32.5°	4356.6	4359.8	4288.3	4051.6	3769.1	3392.6	3158.3	3149.4	3265.0	3375.0	3236.9
35°	4758.7	4766.7	4717.7	4533.9	4234.6	3840.5	3533.1	3512.2	3533.9	3658.3	3497.8
37.5°	5146.3	5151.2	5114.2	4959.3	4708.9	4332.5	4006.6	3976.9	3930.4	4025.9	3842.1
40°	5570.9	5558.9	5516.3	5375.9	5160.8	4875.9	4515.5	4464.1	4383.1	4468.1	4294.8
42.5°	5965.8	5952.2	5959.4	5800.5	5619.1	5434.5	5108.6	5020.3	4973.0	5070.9	4850.2
45°	6459.4	6452.2	6476.3	6338.2	6191.3	6057.3	5788.4	5692.1	5671.2	5786.0	5522.0
47.5°	6946.6	6964.2	7038.9	6980.3	6920.9	6802.9	6508.4	6465.0	6477.9	6616.7	6230.7
50°	7352.7	7373.6	7578.2	7645.7	7731.5	7662.5	7367.2	7340.7	7391.2	7516.4	6993.1
52.5°	7646.5	7689.0	7943.4	8254.0	8567.1	8613.6	8319.1	8295.0	8363.2	8382.5	7582.3
55°	7850.3	7888.1	8176.2	8744.4	9381.7	9582.4	9399.4	9306.3	9293.4	9103.2	8201.9
57.5°	7886.4	7882.4	8296.6	9061.5	10020.6	10538.3	10422.7	10331.2	10067.9	9769.4	8912.2
60°	7682.6	7705.9	8186.6	9171.4	10421.9	11261.4	11270.2	11151.5	10741.3	10417.1	9600.8
62.5°	7054.9	7149.6	7635.2	8883.3	10417.1	11552.8	11891.5	11800.8	11310.4	10947.6	10299.1
65°	6037.2	6070.9	6534.0	7896.1	9713.2	11430.8	12450.9	12417.2	11823.2	11462.9	10657.9
67.5°	4408.7	4335.7	4822.1	6217.8	8223.5	10719.7	12852.2	12894.7	12218.9	11568.8	10275.8
68°	4023.5	4045.2	4424.0	5802.9	7833.5	10468.4	12878.7	12943.7	12258.3	11499.8	10067.1
70°	2398.2	2439.9	2777.8	3995.4	5959.4	9047.0	12592.9	12741.4	12023.9	10787.9	8707.5
72.5°	612.4	662.2	981.6	1788.2	3403.9	6374.3	10630.6	10881.8	10439.5	8751.7	5878.3
75°	252.0	264.9	350.7	589.1	1268.1	2871.7	7006.8	7544.5	7237.1	5239.4	2656.6
77.5°	174.2	183.0	225.5	326.7	549.0	973.6	3435.2	3823.6	3444.8	1788.2	579.5
80°	125.2	132.4	161.3	217.5	315.4	347.5	1119.6	1294.6	1028.1	392.5	143.7
82.5°	74.6	80.3	120.4	154.9	191.8	166.1	278.5	316.2	297.8	195.0	64.2
85°	36.9	43.3	81.1	110.8	103.5	69.8	85.1	94.7	117.2	118.8	34.5
87.5°	2.4	4.8	47.4	66.6	28.9	16.1	24.9	30.5	41.7	58.6	14.4
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°	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0
2.5°	2022.6	2023.4	2017.8	2015.4	2017.0	2007.3	2003.3	2004.9	2004.9	2007.3	2003.3
5°	2042.6	2042.6	2033.0	2020.2	2012.9	1994.5	1982.4	1979.2	1976.8	1975.2	1972.0
7.5°	2086.0	2081.2	2064.3	2036.2	2012.1	1972.0	1941.5	1925.5	1917.4	1914.2	1911.8
10°	2155.8	2147.0	2118.9	2066.7	2011.3	1939.9	1873.3	1825.9	1786.6	1770.6	1760.9
12.5°	2249.7	2236.9	2189.5	2102.8	2005.7	1874.1	1729.6	1590.8	1461.6	1408.6	1382.1
15°	2358.1	2339.6	2265.0	2133.3	1972.8	1725.6	1411.8	1168.6	989.6	922.2	893.3
17.5°	2468.0	2443.9	2330.8	2152.6	1874.1	1418.2	990.4	748.0	628.4	596.3	585.1
20°	2578.8	2543.5	2387.8	2138.2	1651.0	1022.5	653.3	546.6	512.1	502.4	499.2
22.5°	2683.9	2629.4	2439.1	2082.0	1307.5	686.2	516.9	483.2	471.9	466.3	464.7
25°	2775.4	2699.2	2484.1	1908.6	925.4	518.5	465.5	454.3	439.8	429.4	430.2
27.5°	2861.3	2769.0	2511.4	1622.9	617.2	443.0	431.0	415.8	389.3	374.0	374.0
30°	2964.8	2862.1	2531.4	1248.9	454.3	391.7	382.0	358.8	322.6	302.6	302.6
32.5°	3120.5	3003.4	2518.6	876.5	376.4	344.3	321.8	289.7	250.4	231.2	230.3
35°	3358.9	3221.7	2427.1	574.7	332.3	299.4	263.3	223.9	189.4	173.4	172.6
37.5°	3680.0	3513.8	2221.6	410.9	297.8	257.6	214.3	171.0	145.3	134.8	134.0
40°	4096.5	3853.3	1927.9	333.1	265.7	217.5	165.3	132.4	114.8	106.7	107.5
42.5°	4596.5	4216.9	1575.5	287.3	234.4	179.0	129.2	104.3	93.1	87.5	85.9
45°	5152.0	4575.7	1206.3	256.0	203.1	144.5	101.1	82.7	73.8	70.6	70.6
47.5°	5762.7	4924.8	882.9	228.7	169.4	111.6	81.1	67.4	60.2	57.8	57.0
50°	6317.3	5167.2	636.5	199.8	138.9	88.3	65.8	56.2	51.4	48.2	48.2
52.5°	6779.6	5243.5	468.7	168.5	112.4	70.6	54.6	48.2	43.3	40.9	40.9
55°	7186.6	5212.1	348.3	138.9	90.7	57.8	46.6	40.9	36.9	34.5	34.5
57.5°	7576.6	5111.0	260.0	113.2	73.0	46.6	39.3	34.5	30.5	28.9	28.9
60°	7895.3	4942.5	193.4	91.5	58.6	37.7	32.9	28.1	24.9	22.5	22.5
62.5°	8153.7	4756.3	142.1	75.4	46.6	29.7	25.7	23.3	18.5	16.1	16.1
65°	8155.3	4447.3	106.7	62.6	36.1	23.3	19.3	18.5	12.0	9.6	8.8
67.5°	7565.4	3834.1	81.9	53.8	28.1	17.7	14.4	15.2	6.4	4.0	3.2
68°	7351.1	3678.4	77.1	53.0	26.5	16.9	13.6	15.2	5.6	3.2	2.4
70°	6197.8	2926.3	61.8	51.4	23.3	12.8	11.2	15.2	4.8	2.4	1.6
72.5°	3964.1	1698.3	45.7	40.9	17.7	9.6	7.2	13.6	4.8	1.6	0.8
75°	1687.1	526.5	31.3	28.9	10.4	7.2	4.8	8.8	3.2	0.8	0.0
77.5°	355.6	118.8	18.5	17.7	7.2	4.8	3.2	2.4	0.8	0.0	0.0
80°	91.5	34.5	9.6	8.8	4.0	2.4	1.6	0.0	0.0	0.0	0.0
82.5°	28.9	13.6	5.6	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.4	8.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	2.4	0.8	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)