

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: P323827

Luminaire Tested: **GAN-SA3A-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11548 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

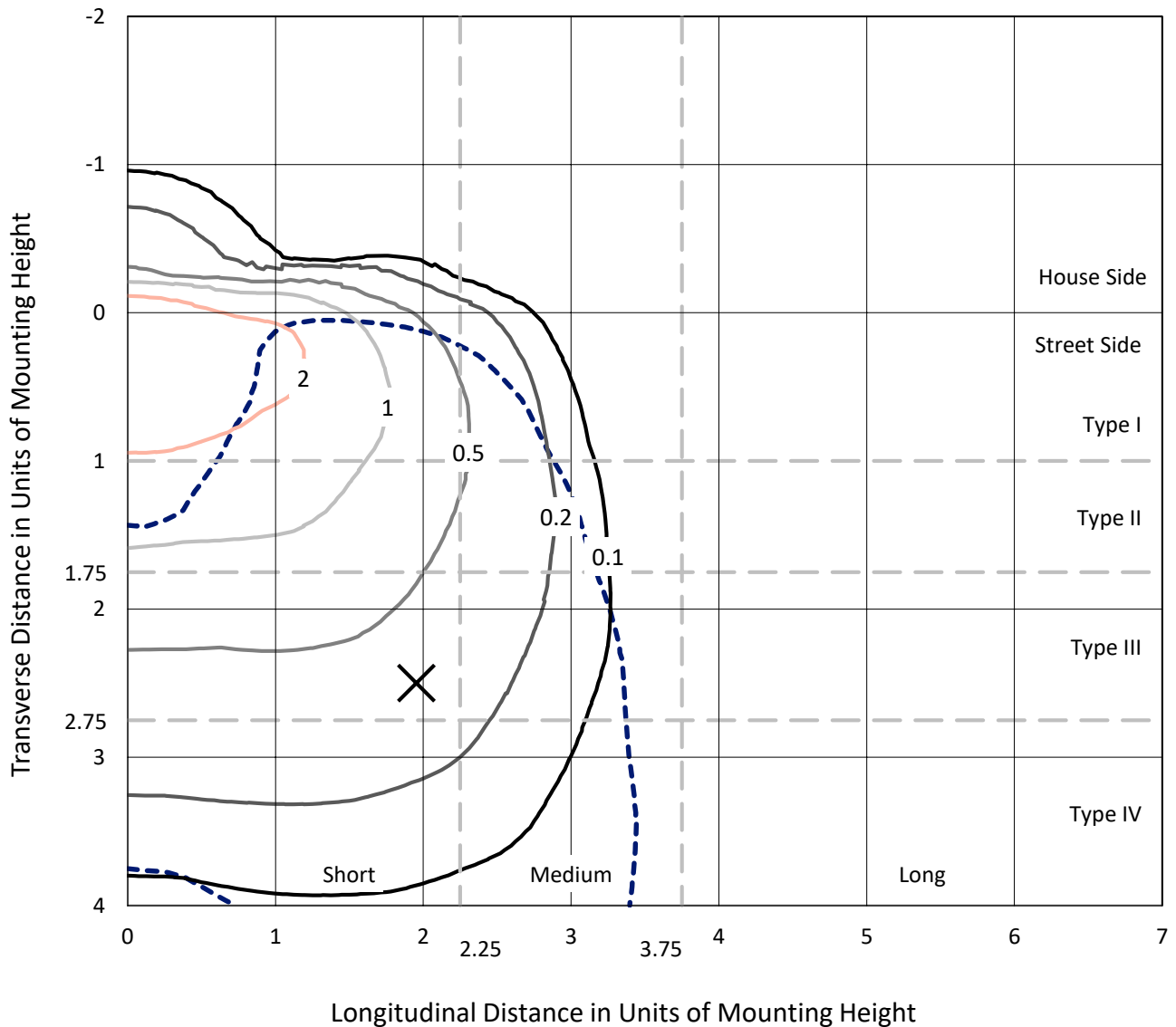
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

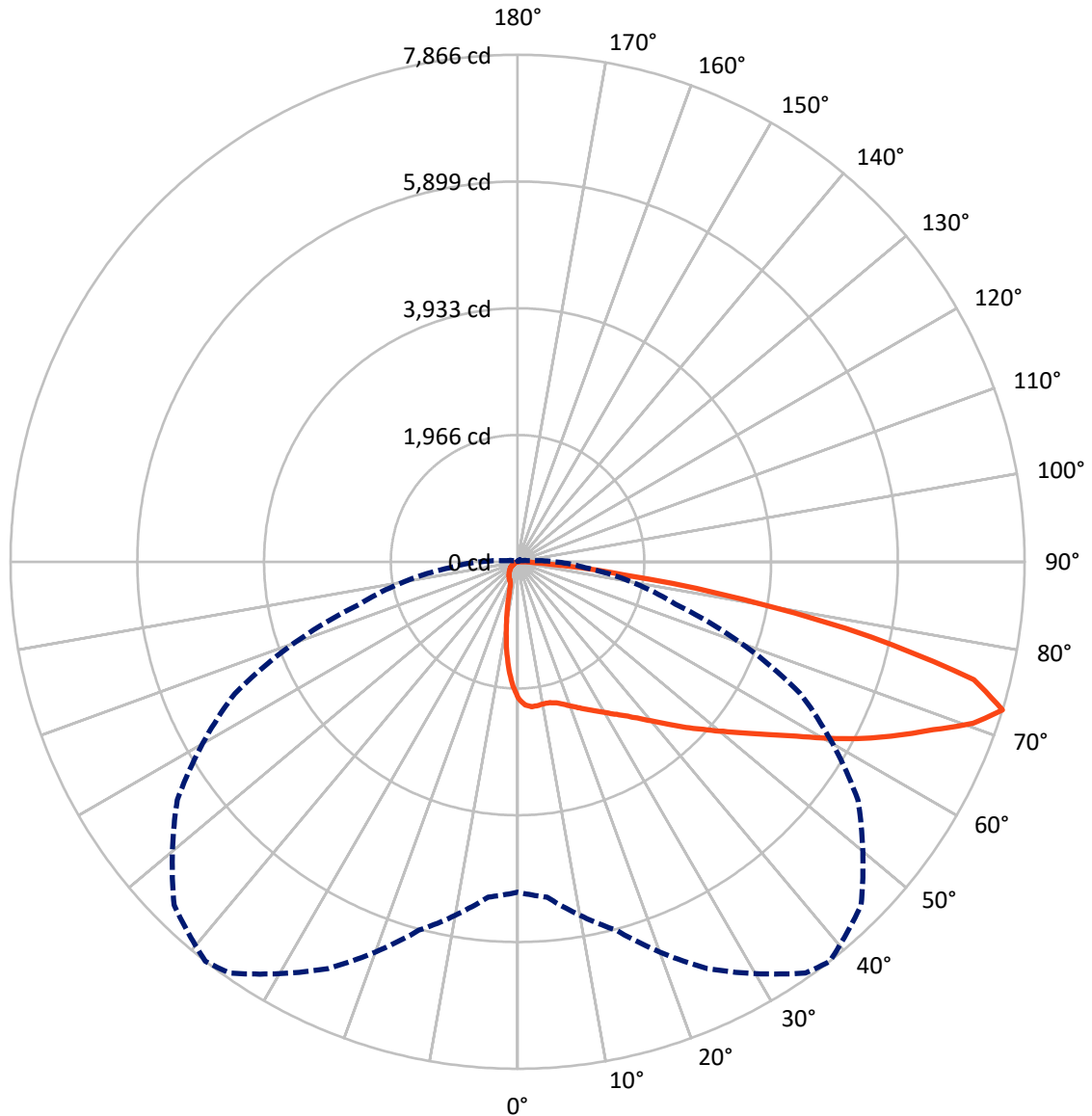
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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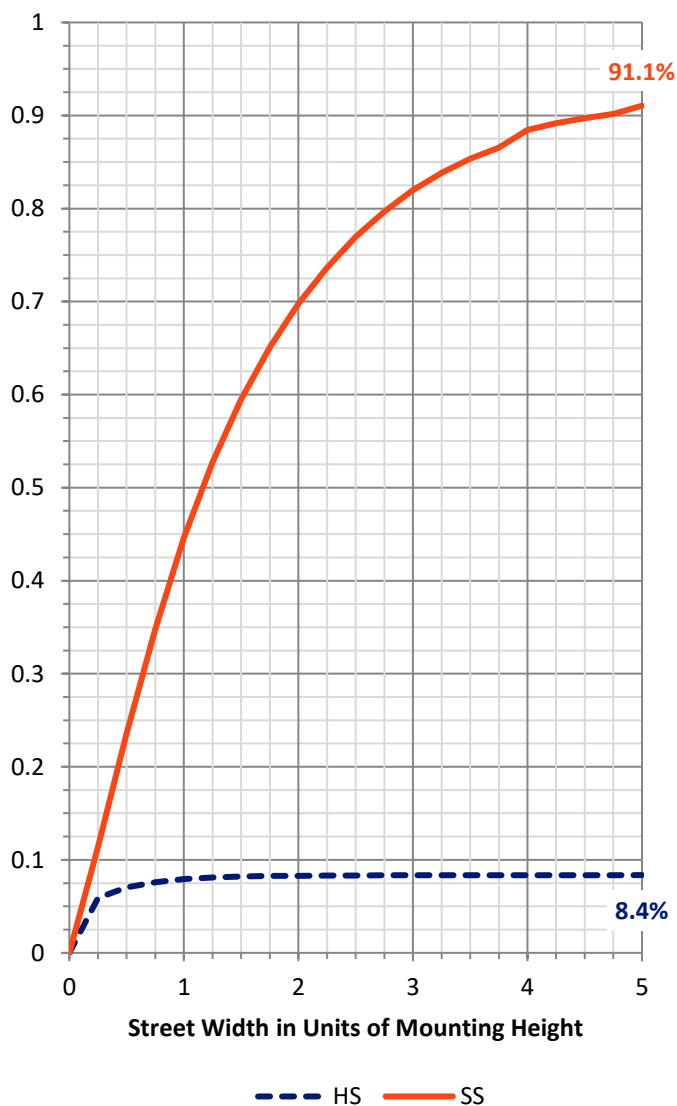
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.8	0.0	971.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10576.2	0.0	10576.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	11548.0	0.0	11548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	1.6
10°-20°	442.5	3.8
20°-30°	703.8	6.1
30°-40°	1058.1	9.2
40°-50°	1614.2	14.0
50°-60°	2281.5	19.8
60°-70°	2861.7	24.8
70°-80°	2139.8	18.5
80°-90°	265.3	2.3
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°	11548.0	100.0
0°-180°	11548.0	100.0

Coefficient of Utilization



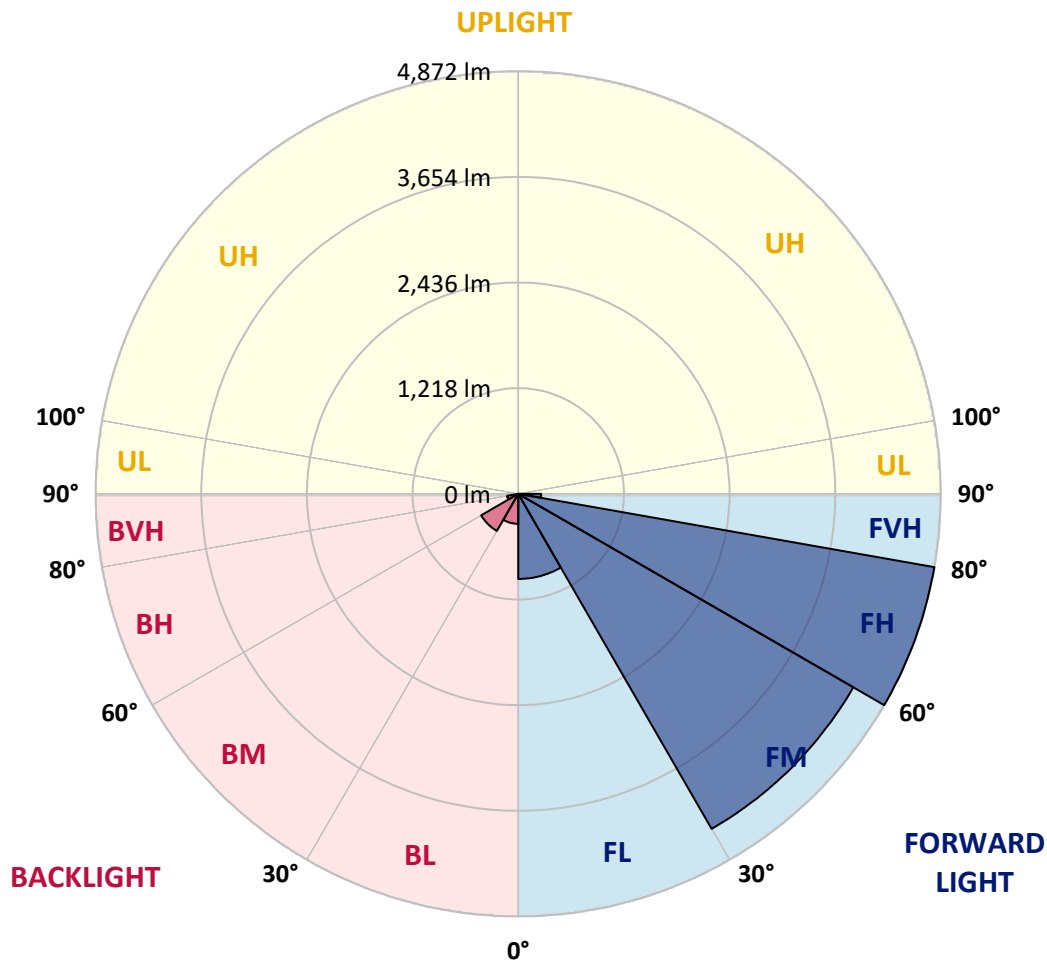
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.3	8.5			
FM (30°-60°)	4460.4	38.6			
FH (60°-80°)	4871.7	42.2			G2/5000
FVH (80°-90°)	262.9	2.3			G3/500
BL (0°-30°)	346.0	3.0	B1/500		
BM (30°-60°)	493.5	4.3	B1/1000		
BH (60°-80°)	129.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6
2.5°	2254.1	2254.6	2249.3	2240.7	2229.6	2223.9	2214.3	2198.9	2182.6	2153.4	2121.7
5°	2300.1	2300.1	2293.4	2281.9	2264.2	2258.9	2240.7	2216.2	2182.6	2135.1	2081.9
7.5°	2295.3	2296.3	2287.2	2275.2	2257.4	2252.6	2230.6	2203.3	2161.5	2104.0	2035.9
10°	2270.4	2272.8	2265.6	2259.8	2243.5	2238.3	2217.6	2190.3	2148.6	2087.2	2009.0
12.5°	2245.0	2247.4	2249.8	2255.0	2245.0	2243.1	2226.8	2203.7	2163.9	2100.1	2011.9
15°	2228.7	2233.5	2250.7	2271.4	2273.8	2271.8	2261.3	2239.7	2199.4	2133.2	2032.5
17.5°	2228.7	2236.3	2272.3	2311.6	2325.5	2327.0	2317.9	2287.7	2239.7	2168.7	2051.7
20°	2247.4	2257.9	2314.0	2369.7	2392.7	2392.7	2374.9	2332.7	2276.6	2200.9	2064.6
22.5°	2295.3	2309.2	2379.7	2444.0	2468.5	2463.2	2439.2	2377.8	2315.0	2237.3	2081.0
25°	2389.8	2400.4	2473.7	2538.5	2553.4	2541.4	2511.2	2432.5	2363.9	2286.7	2110.7
27.5°	2511.6	2513.1	2588.8	2643.5	2634.4	2626.3	2588.4	2501.1	2434.4	2357.2	2162.0
30°	2645.4	2645.4	2712.1	2753.8	2726.0	2719.3	2681.4	2584.0	2524.6	2453.1	2234.9
32.5°	2774.9	2780.7	2834.9	2861.3	2830.1	2823.4	2786.4	2689.1	2644.5	2599.4	2348.6
35°	2900.1	2904.4	2955.7	2970.1	2940.4	2942.3	2915.9	2833.4	2816.7	2810.9	2519.8
37.5°	3021.4	3022.4	3074.7	3083.8	3068.9	3085.2	3087.6	3014.7	3045.9	3092.4	2761.0
40°	3132.2	3133.2	3185.0	3208.5	3233.9	3255.0	3273.7	3234.9	3338.0	3445.9	3048.3
42.5°	3220.9	3231.0	3296.7	3341.3	3408.5	3448.8	3499.6	3497.7	3685.7	3847.8	3395.5
45°	3299.1	3316.4	3408.0	3486.2	3601.3	3665.5	3745.1	3807.5	4077.0	4295.2	3747.1
47.5°	3402.2	3418.5	3523.1	3651.1	3804.6	3889.0	4020.9	4155.7	4507.2	4734.5	4090.5
50°	3547.6	3540.4	3643.5	3827.2	4024.3	4135.1	4323.1	4525.0	4934.1	5117.3	4292.4
52.5°	3702.5	3699.6	3775.8	4018.5	4283.2	4412.7	4661.2	4906.7	5342.2	5381.0	4384.9
55°	3894.3	3873.7	3937.9	4236.7	4590.7	4729.7	5022.3	5284.6	5667.4	5529.7	4431.4
57.5°	4095.2	4061.2	4122.6	4479.9	4937.4	5101.9	5422.3	5653.0	5883.7	5631.4	4431.0
60°	4302.9	4262.6	4335.5	4783.9	5368.1	5558.5	5855.8	5901.9	6085.6	5682.7	4398.4
62.5°	4476.5	4452.5	4560.9	5109.1	5849.1	6036.2	6183.4	6128.2	6255.8	5722.5	4322.1
65°	4660.2	4661.6	4836.7	5488.5	6360.4	6486.5	6499.0	6421.8	6398.3	5714.4	4064.1
67.5°	4908.6	4931.7	5223.7	6003.5	6857.7	6955.1	6954.1	6739.7	6502.3	5390.1	3491.9
70°	5171.5	5225.6	5669.8	6593.0	7400.6	7499.4	7448.6	6942.1	6122.5	4358.5	2471.3
72.5°	5127.3	5221.3	5917.7	6964.7	7790.5	7865.8	7535.4	6444.8	4839.1	2533.2	1052.2
75°	3955.7	4064.6	5426.1	6596.3	7381.4	7313.8	6474.5	5015.1	2644.5	706.9	236.9
77.5°	2089.6	2147.6	3584.5	5025.2	5755.6	5614.1	4560.9	2782.1	806.2	175.1	106.5
80°	1094.4	1107.9	1562.0	2851.2	3552.3	3553.3	2703.0	1222.0	332.4	89.7	71.5
82.5°	586.1	597.6	825.4	1317.4	1861.3	1687.2	1035.0	672.4	193.3	50.8	68.6
85°	141.0	143.4	468.1	601.9	731.9	522.8	307.4	564.5	52.3	29.7	55.6
87.5°	54.2	55.2	173.6	260.4	186.6	120.9	143.9	210.5	6.7	11.5	8.6
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°	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6	2123.6
2.5°	2102.5	2090.1	2059.4	2020.5	1986.0	1961.1	1923.6	1899.2	1882.9	1882.4	1876.2
5°	2049.3	2023.9	1957.7	1879.0	1807.6	1743.3	1667.5	1607.6	1563.0	1555.8	1540.5
7.5°	1992.2	1950.5	1848.8	1726.1	1606.2	1484.3	1342.9	1255.1	1179.8	1143.8	1140.0
10°	1957.2	1898.7	1754.4	1576.9	1388.9	1190.8	1005.7	877.7	785.1	758.7	739.1
12.5°	1950.0	1872.8	1681.5	1436.9	1168.3	906.4	701.6	565.4	491.6	468.1	461.8
15°	1957.2	1860.8	1620.1	1298.3	944.8	643.1	471.0	391.8	364.0	357.3	356.8
17.5°	1961.5	1846.4	1550.5	1144.3	728.0	459.5	360.7	337.6	333.3	332.8	333.8
20°	1961.1	1824.4	1467.6	972.6	541.5	361.1	326.1	321.3	320.4	320.8	320.4
22.5°	1957.7	1798.5	1376.4	795.6	409.1	322.8	311.3	308.4	307.9	307.9	307.9
25°	1963.9	1777.9	1276.2	626.3	337.2	305.0	297.8	295.4	294.9	294.9	294.0
27.5°	1986.5	1766.3	1166.4	482.0	304.5	289.2	283.4	283.0	281.5	281.0	282.0
30°	2022.9	1766.3	1046.0	375.0	284.9	272.9	268.6	267.6	267.1	266.7	267.1
32.5°	2087.2	1779.8	914.6	311.7	266.2	254.7	251.8	253.2	251.8	251.8	251.8
35°	2203.3	1820.1	776.9	271.9	246.5	236.9	234.0	236.0	235.0	235.0	234.5
37.5°	2372.5	1894.9	638.3	247.9	229.2	219.2	215.3	218.2	217.3	217.3	216.8
40°	2578.8	2003.7	506.5	229.7	212.5	201.9	198.6	200.0	197.6	197.6	198.6
42.5°	2833.4	2141.9	391.3	212.0	195.7	185.6	183.7	182.2	177.9	175.5	176.0
45°	3116.4	2285.7	305.0	194.7	179.8	171.7	168.8	165.0	157.8	153.0	153.5
47.5°	3369.1	2396.5	247.9	177.9	165.5	159.2	154.9	147.7	137.2	131.4	131.9
50°	3502.0	2413.3	211.0	161.1	152.0	145.8	139.6	128.5	116.1	109.8	109.3
52.5°	3536.0	2334.7	183.7	145.8	138.6	131.4	123.3	108.4	94.5	87.8	86.8
55°	3548.5	2214.8	159.2	131.4	124.2	116.1	105.5	88.7	75.8	69.1	68.6
57.5°	3507.3	2035.9	140.0	118.5	109.8	99.8	86.8	71.0	58.5	53.2	53.2
60°	3415.7	1793.7	125.2	104.6	95.0	83.4	70.0	55.2	43.6	39.3	39.3
62.5°	3232.9	1480.0	111.3	90.2	81.1	69.1	56.6	41.7	30.7	28.3	28.8
65°	2888.1	1122.7	97.4	77.2	69.1	57.1	44.1	29.7	20.6	20.6	21.6
67.5°	2355.3	779.8	83.0	65.7	59.5	46.5	33.6	20.6	14.4	16.3	18.2
70°	1559.2	437.4	71.0	54.2	50.8	36.9	24.9	13.9	11.5	15.3	18.7
72.5°	588.5	170.3	59.5	43.6	44.1	28.3	17.7	10.6	10.6	16.8	22.1
75°	164.0	83.4	42.7	32.1	34.5	20.6	12.9	9.1	10.1	19.2	25.9
77.5°	96.4	61.4	27.8	18.7	23.5	14.4	8.6	7.2	8.6	16.3	24.9
80°	77.7	32.6	16.3	9.6	12.9	8.2	5.8	4.3	2.4	6.2	12.9
82.5°	77.7	19.7	7.7	6.7	6.7	4.3	2.9	1.9	0.5	0.0	3.4
85°	52.3	8.2	4.8	4.3	3.4	1.4	1.0	0.5	0.0	0.0	0.0
87.5°	8.6	3.4	1.9	1.0	0.5	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)