

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: P319947

Luminaire Tested: **GAN-SA3A-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12312 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

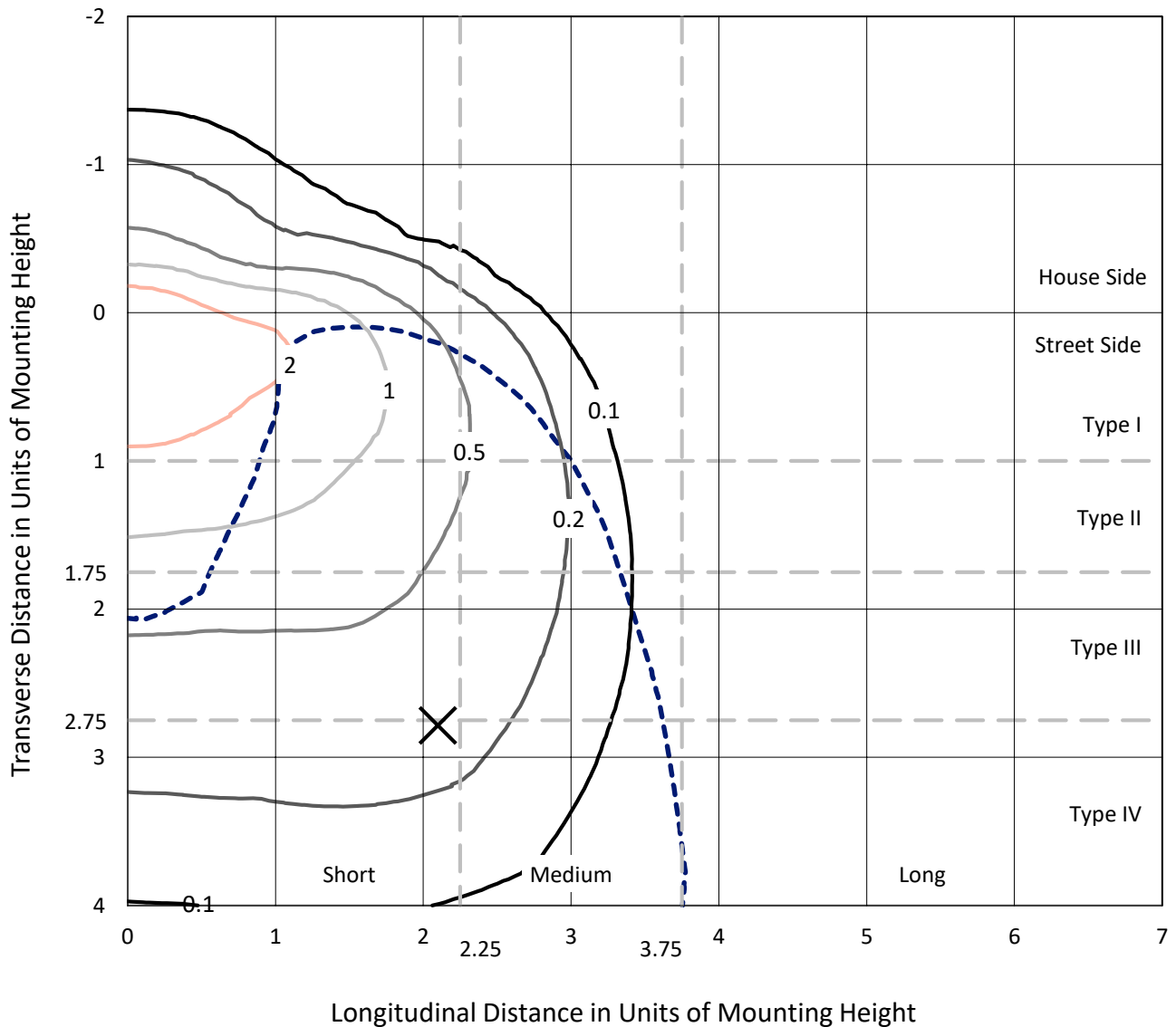
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

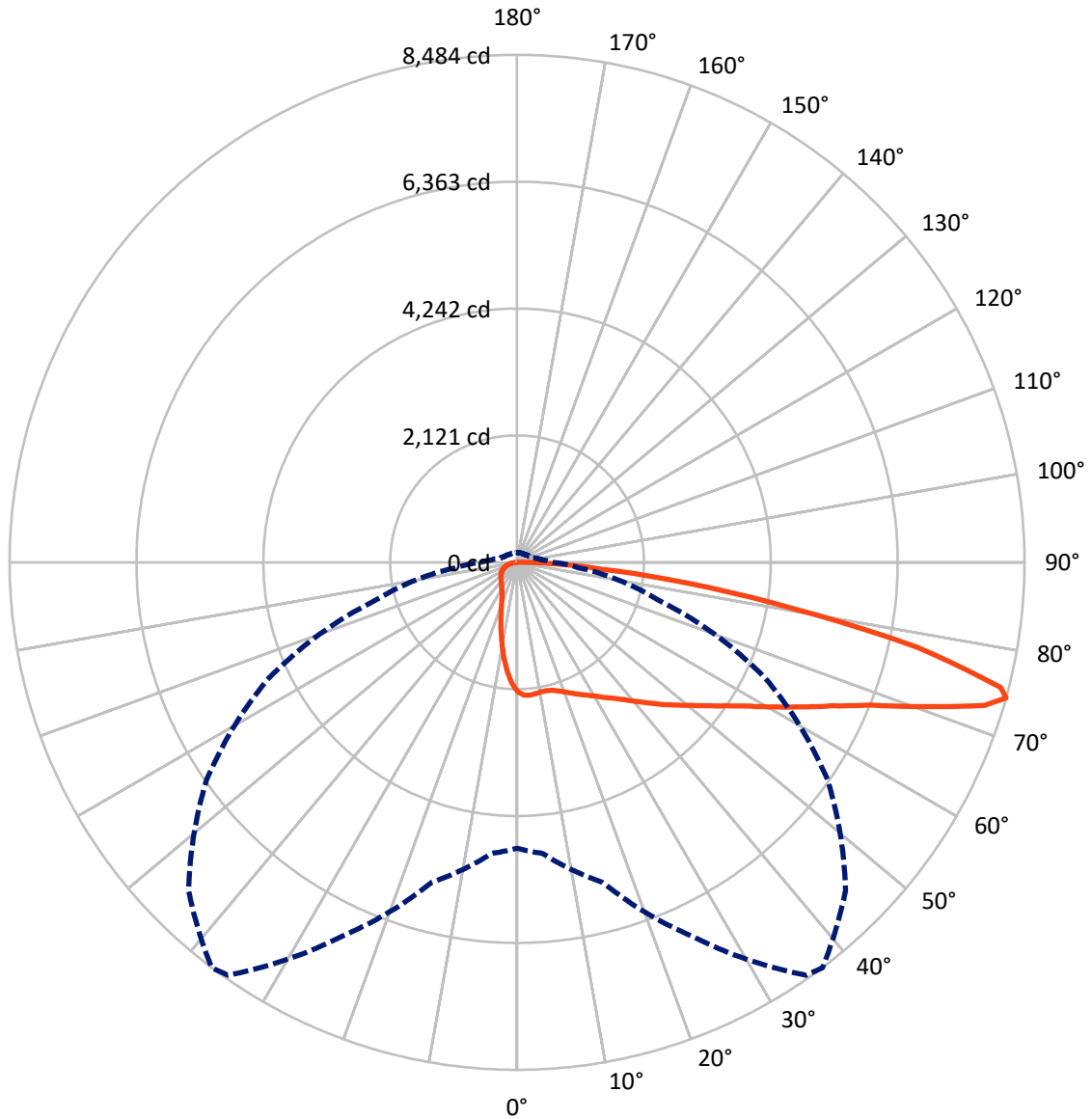
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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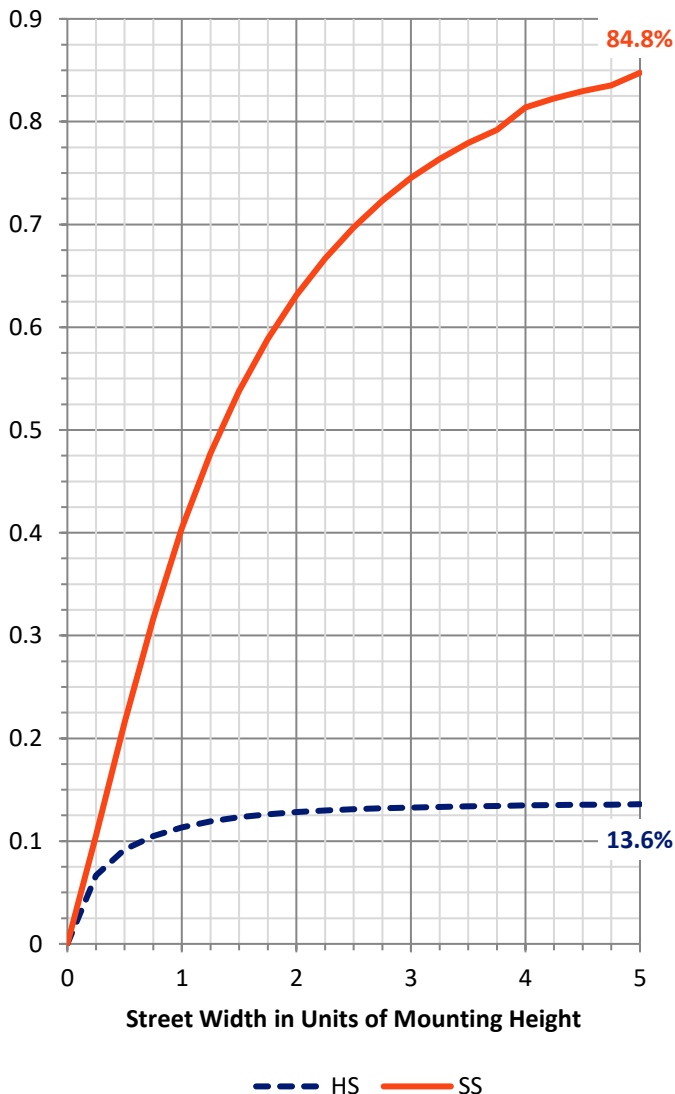
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.0	0.0	1694.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	10618.0	0.0	10618.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	12312.0	0.0	12312.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.6
10°-20°	489.7	4.0
20°-30°	754.5	6.1
30°-40°	1097.1	8.9
40°-50°	1614.8	13.1
50°-60°	2267.7	18.4
60°-70°	2870.2	23.3
70°-80°	2527.3	20.5
80°-90°	499.7	4.1
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°	12312.0	100.0
0°-180°	12312.0	100.0

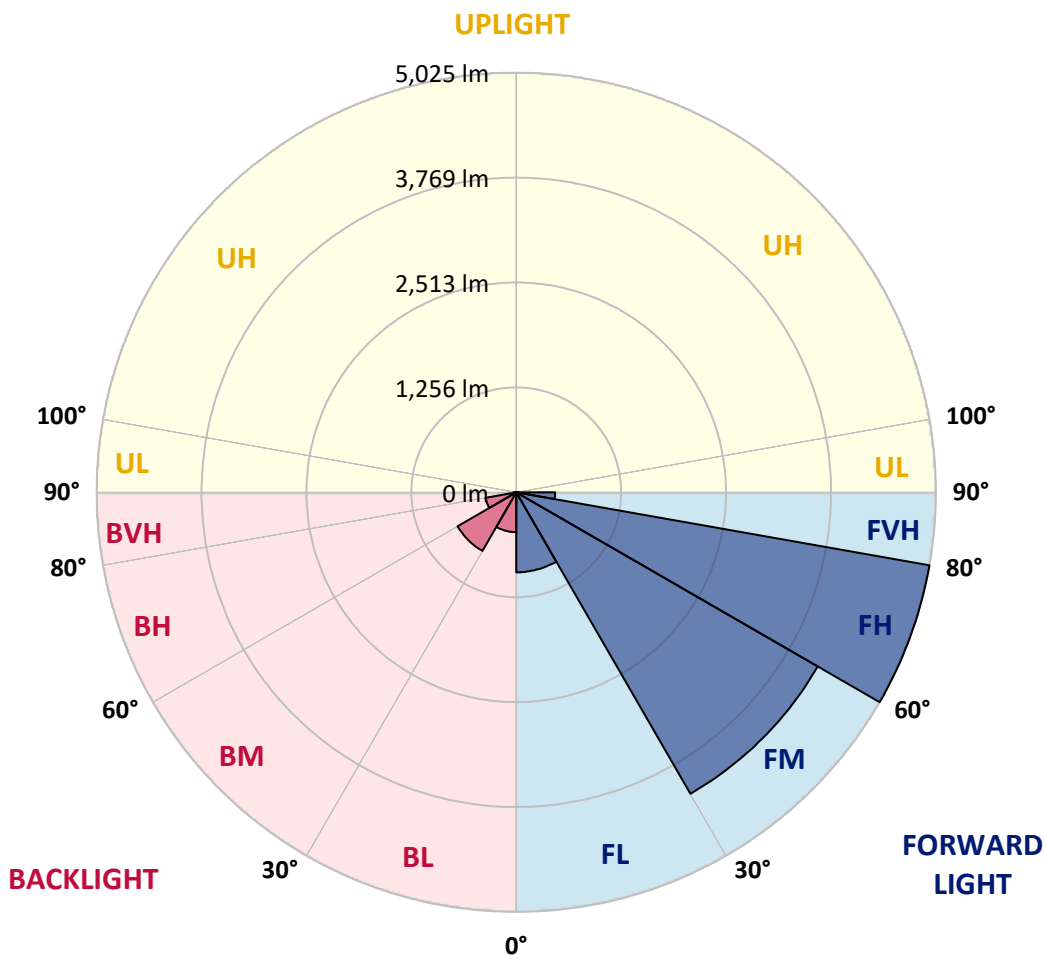


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.0	7.8			
FM (30°-60°)	4168.9	33.9			
FH (60°-80°)	5025.1	40.8			G3/7500
FVH (80°-90°)	465.9	3.8			G3/500
BL (0°-30°)	477.2	3.9	B1/500		
BM (30°-60°)	810.7	6.6	B1/1000		
BH (60°-80°)	372.4	3.0	B1/500		G1/500
BVH (80°-90°)	33.8	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3
2.5°	2243.5	2243.9	2243.5	2240.0	2231.8	2224.8	2219.2	2211.0	2192.7	2178.9	2158.1
5°	2264.7	2262.1	2260.4	2253.9	2240.9	2233.1	2222.2	2206.6	2176.7	2148.9	2115.1
7.5°	2254.8	2251.7	2247.8	2240.0	2225.3	2218.8	2203.6	2183.2	2147.2	2110.8	2062.2
10°	2224.0	2223.1	2221.4	2219.6	2207.1	2201.9	2188.0	2166.3	2130.7	2086.5	2029.7
12.5°	2189.7	2191.9	2198.8	2207.9	2202.3	2199.7	2191.0	2176.3	2139.8	2092.1	2023.6
15°	2168.0	2174.1	2192.7	2216.6	2221.4	2220.5	2218.3	2208.8	2170.2	2117.3	2037.5
17.5°	2160.7	2170.6	2206.2	2245.7	2259.5	2262.6	2263.4	2247.0	2204.0	2148.1	2051.8
20°	2174.1	2186.7	2238.7	2292.9	2315.0	2316.8	2312.9	2284.3	2236.1	2174.5	2059.6
22.5°	2214.9	2226.1	2291.2	2352.3	2377.5	2380.1	2368.4	2325.0	2269.9	2205.8	2070.4
25°	2293.4	2307.2	2372.3	2433.4	2446.5	2446.9	2430.0	2376.2	2314.2	2249.6	2093.9
27.5°	2395.7	2409.6	2468.1	2528.0	2521.1	2517.1	2494.2	2440.4	2371.9	2309.8	2135.5
30°	2509.8	2525.0	2580.5	2623.0	2606.5	2598.7	2580.0	2510.6	2452.1	2392.2	2199.3
32.5°	2627.7	2641.6	2690.2	2719.2	2698.4	2695.0	2666.8	2603.5	2556.6	2518.0	2302.5
35°	2748.7	2758.7	2806.4	2822.9	2795.1	2794.3	2786.5	2728.4	2698.9	2717.1	2452.5
37.5°	2872.3	2874.9	2915.7	2916.6	2908.3	2911.8	2920.0	2883.6	2891.9	2948.7	2647.7
40°	2982.5	2989.4	3018.9	3028.0	3042.3	3054.5	3095.7	3071.8	3135.6	3236.2	2890.6
42.5°	3064.0	3077.5	3124.7	3148.2	3194.6	3213.7	3271.8	3293.9	3422.3	3573.2	3179.4
45°	3133.0	3153.8	3229.7	3277.8	3356.3	3389.7	3473.0	3547.2	3746.2	3938.8	3483.4
47.5°	3207.6	3234.0	3329.0	3421.0	3527.6	3565.4	3716.7	3827.8	4091.9	4306.6	3770.1
50°	3317.3	3337.7	3430.5	3574.9	3708.1	3756.6	3966.1	4125.3	4443.2	4657.0	4018.6
52.5°	3470.4	3462.6	3541.1	3743.6	3922.3	3982.2	4232.4	4441.9	4799.2	4974.0	4228.5
55°	3624.4	3611.4	3666.4	3920.1	4172.1	4235.0	4525.6	4759.8	5137.9	5259.4	4389.4
57.5°	3795.7	3771.0	3817.4	4119.2	4456.6	4531.6	4853.9	5097.6	5471.0	5490.1	4491.7
60°	3972.2	3938.8	3990.8	4366.0	4817.9	4906.4	5238.1	5427.2	5785.0	5674.9	4524.7
62.5°	4126.6	4103.2	4183.4	4641.4	5225.1	5322.3	5615.4	5777.6	6094.7	5751.6	4405.9
65°	4261.5	4265.4	4404.1	4951.0	5679.2	5782.8	6048.3	6209.6	6338.4	5706.1	4127.9
67.5°	4422.4	4444.5	4681.3	5358.7	6250.8	6364.4	6678.0	6680.6	6474.6	5438.9	3580.6
70°	4657.0	4702.5	5062.5	5924.2	7063.5	7219.7	7461.7	6957.3	6283.3	4714.7	2817.3
72.5°	4865.2	4950.2	5468.0	6571.3	8054.1	8172.5	7920.1	6797.7	5484.0	3533.3	1755.2
74°	4780.6	4886.0	5541.7	6890.1	8427.1	8483.9	7765.3	6331.9	4572.4	2446.9	1020.0
75°	4598.4	4712.9	5434.2	6887.0	8379.8	8348.1	7391.4	5799.8	3765.7	1668.8	678.7
77.5°	3711.1	3832.1	4578.9	5902.5	6871.0	6841.1	5677.9	3890.6	1649.3	547.3	344.8
80°	2157.6	2250.0	2842.4	3748.4	4633.1	4687.3	3734.1	1925.2	648.8	307.5	233.8
82.5°	958.5	1022.2	1373.1	1913.4	2796.0	2865.8	1955.5	1008.8	400.7	186.9	140.5
85°	628.9	676.1	833.6	911.2	1331.4	1379.1	957.2	785.4	264.6	102.8	103.2
87.5°	452.3	497.9	619.3	540.8	611.1	578.5	520.9	726.9	106.3	58.5	34.7
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°	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3
2.5°	2148.9	2142.0	2126.4	2096.9	2080.4	2066.5	2043.6	2030.1	2024.0	2023.6	2026.2
5°	2095.6	2079.6	2039.2	1989.8	1950.3	1914.3	1869.6	1842.8	1823.7	1812.4	1815.4
7.5°	2033.6	2008.4	1945.1	1866.2	1802.9	1733.0	1664.1	1622.9	1590.8	1566.9	1571.3
10°	1991.1	1956.4	1864.0	1750.4	1645.0	1543.5	1448.5	1391.7	1346.6	1311.9	1314.5
12.5°	1976.8	1929.9	1802.0	1650.2	1502.3	1363.5	1239.5	1152.3	1105.9	1066.4	1069.5
15°	1978.9	1916.1	1749.9	1560.0	1373.9	1199.2	1048.7	946.7	883.9	856.5	857.0
17.5°	1980.7	1900.0	1695.3	1463.3	1246.9	1045.6	882.1	778.9	719.5	694.3	694.8
20°	1975.0	1874.0	1627.6	1352.3	1114.2	904.7	746.4	658.8	613.7	594.2	594.2
22.5°	1967.7	1843.2	1551.3	1240.8	983.2	782.4	649.2	582.4	556.4	543.4	543.0
25°	1971.1	1820.2	1473.3	1126.3	862.6	684.8	584.6	540.4	523.0	514.8	514.4
27.5°	1989.8	1809.4	1401.3	1012.2	757.2	611.5	541.2	510.0	498.7	493.5	493.5
30°	2023.6	1809.4	1326.2	915.1	669.6	557.3	507.9	486.6	478.8	475.3	475.3
32.5°	2082.6	1819.3	1253.8	818.8	599.8	514.8	480.1	465.8	459.7	458.0	458.0
35°	2184.1	1853.2	1183.1	727.7	543.4	480.1	453.6	445.4	441.1	440.6	441.9
37.5°	2326.8	1922.1	1116.8	660.5	503.5	451.9	431.5	425.0	422.4	424.6	426.3
40°	2506.3	2015.8	1056.5	599.8	473.2	429.4	411.1	406.8	405.5	408.5	411.1
42.5°	2723.2	2142.4	1007.0	556.0	449.7	410.3	393.8	388.6	387.3	390.8	394.2
45°	2957.8	2278.6	972.3	523.5	431.5	396.0	378.6	373.0	370.4	372.1	376.0
47.5°	3171.2	2407.4	958.5	500.5	414.2	383.8	365.2	358.2	353.9	353.0	356.1
50°	3351.1	2503.3	965.0	486.6	400.3	370.4	352.2	344.4	337.8	333.9	336.1
52.5°	3482.1	2563.6	971.0	480.5	389.5	355.6	337.8	330.5	321.8	315.3	315.3
55°	3577.1	2577.4	957.6	475.8	381.2	339.6	321.8	314.9	306.2	298.8	297.9
57.5°	3614.4	2538.4	907.7	468.8	375.6	324.4	304.9	299.7	292.3	283.6	283.2
60°	3564.1	2417.8	811.4	454.1	368.2	311.8	288.0	284.5	281.0	272.8	272.4
62.5°	3362.0	2153.3	687.0	424.2	353.5	298.4	272.4	274.1	274.5	268.9	268.0
65°	2995.5	1789.8	565.5	385.1	331.3	282.3	256.3	264.6	269.3	268.5	267.2
67.5°	2462.9	1393.0	479.2	343.9	302.3	260.2	239.0	248.5	252.4	255.4	254.6
70°	1828.0	982.3	396.4	300.5	267.2	234.2	216.4	221.2	218.6	222.1	223.4
72.5°	1019.2	589.4	323.1	257.2	230.7	203.8	191.3	190.4	184.8	184.8	184.8
74°	611.5	432.4	284.1	230.3	208.6	183.9	173.0	169.1	163.9	164.4	163.9
75°	491.8	371.7	260.6	212.5	193.0	172.2	161.3	156.1	152.2	152.2	151.8
77.5°	310.5	282.3	209.9	169.1	154.4	141.8	134.4	127.5	127.5	127.1	126.6
80°	234.6	224.7	163.5	127.9	118.4	108.9	104.1	101.1	101.1	102.4	101.9
82.5°	160.9	169.1	114.9	89.3	84.6	77.6	76.8	77.2	75.9	74.2	73.7
85°	117.5	127.1	77.6	56.4	51.6	47.3	50.7	52.5	50.3	46.4	44.7
87.5°	45.1	83.3	41.6	23.4	21.7	18.6	21.7	22.6	24.3	19.1	19.5
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)