

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: P321557

Luminaire Tested: **GAN-SA3B-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12220 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

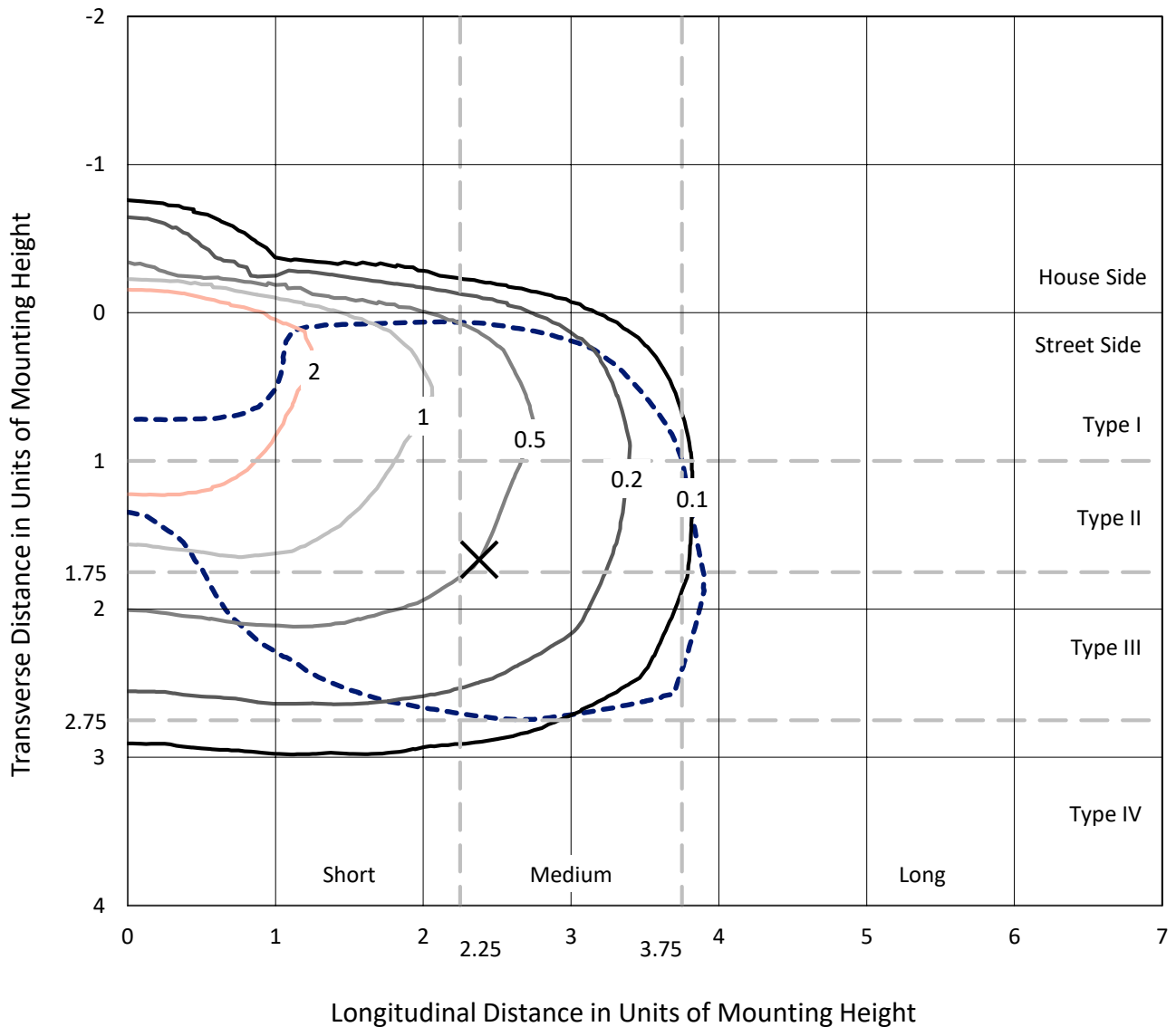
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

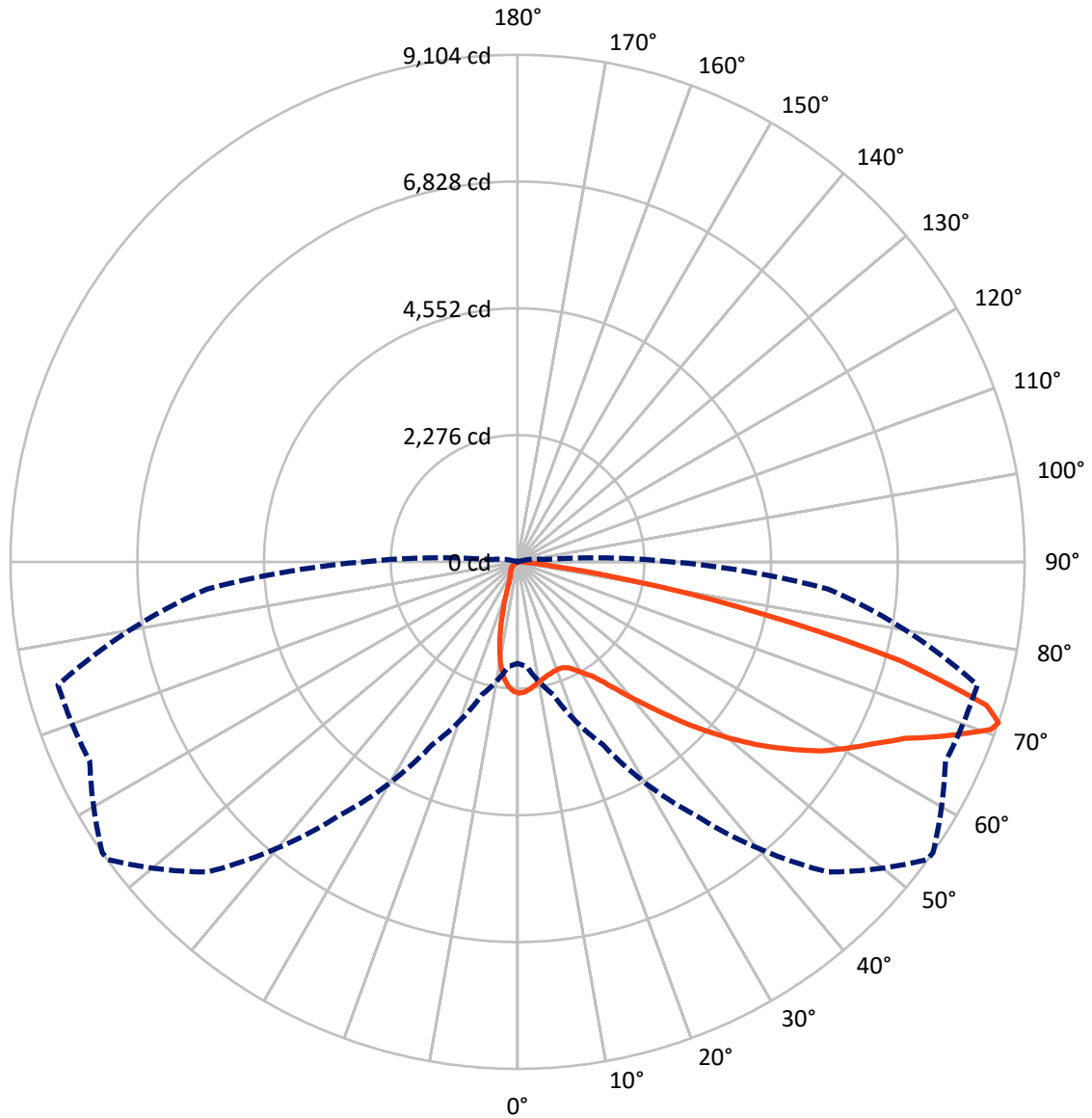
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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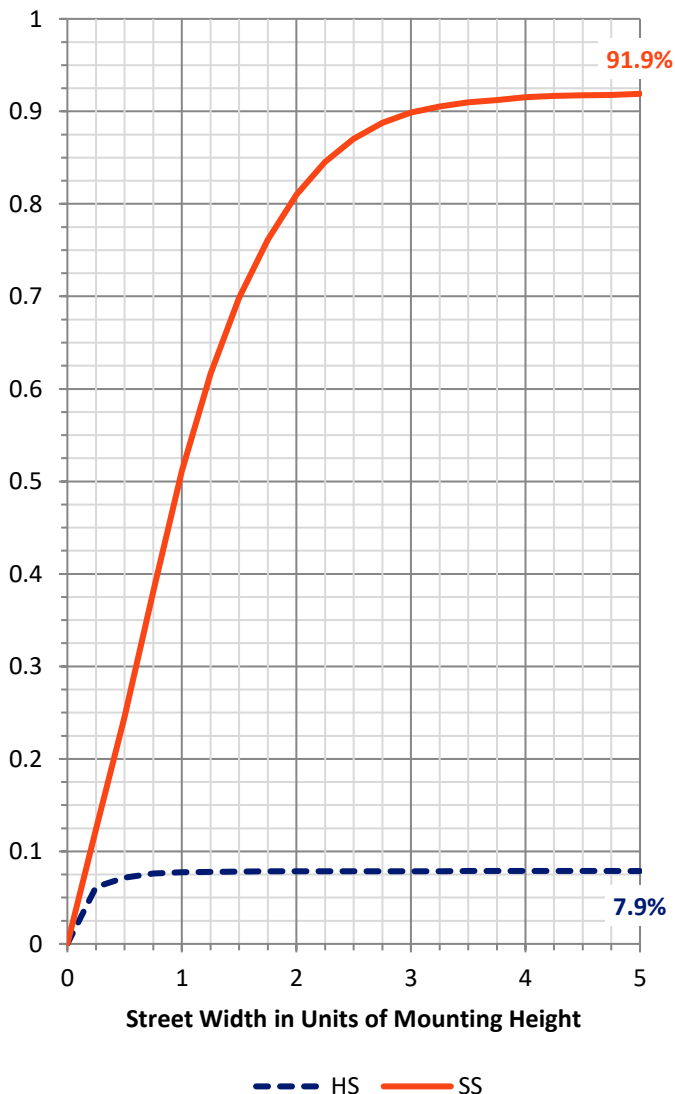
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.5	0.0	967.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	11252.5	0.0	11252.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	12220.0	0.0	12220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.6
10°-20°	453.6	3.7
20°-30°	729.0	6.0
30°-40°	1238.6	10.1
40°-50°	1922.5	15.7
50°-60°	2584.7	21.2
60°-70°	3162.0	25.9
70°-80°	1848.7	15.1
80°-90°	79.9	0.7
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°	12220.0	100.0
0°-180°	12220.0	100.0

Coefficient of Utilization

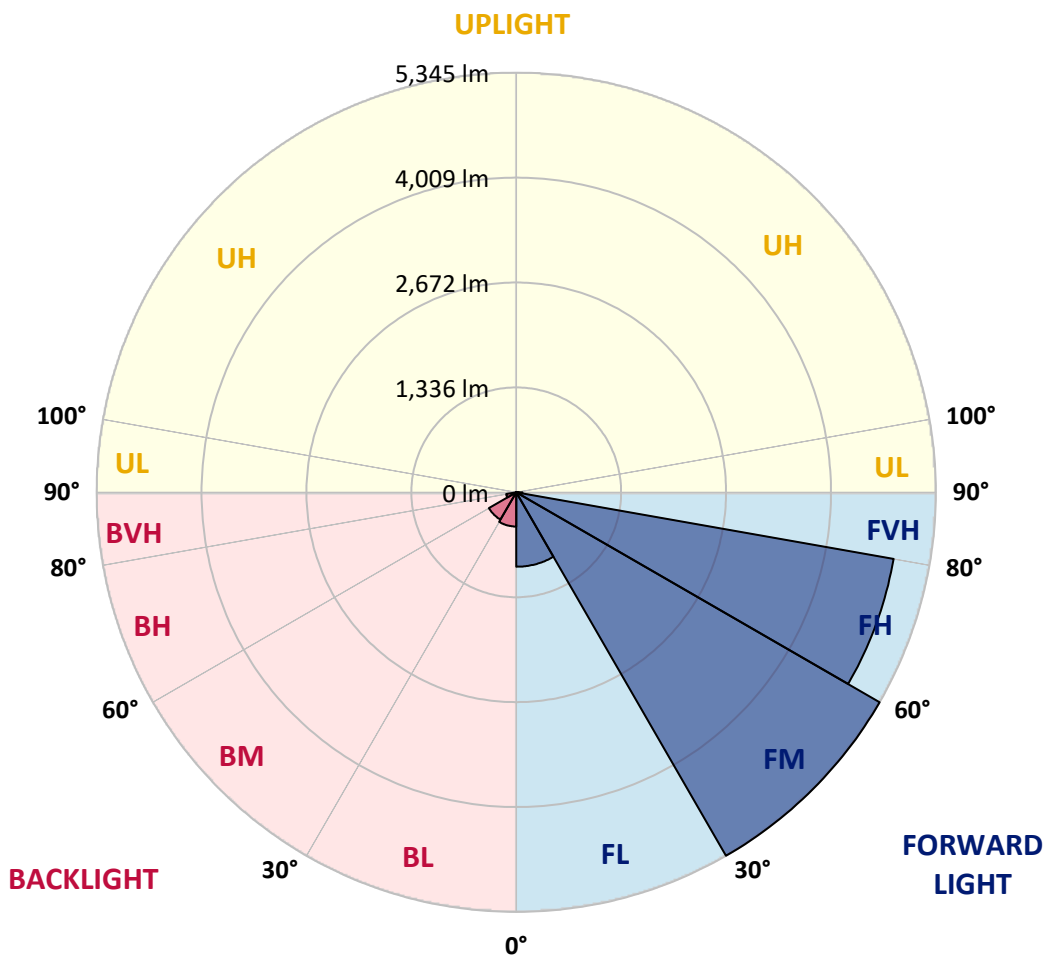


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.1	7.8			
FM (30°-60°)	5344.7	43.7			
FH (60°-80°)	4881.1	39.9			G2/5000
FVH (80°-90°)	78.7	0.6			G1/100
BL (0°-30°)	435.5	3.6	B1/500		
BM (30°-60°)	401.1	3.3	B1/1000		
BH (60°-80°)	129.6	1.1	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: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7
2.5°	2287.5	2290.3	2300.2	2304.5	2315.0	2332.5	2341.3	2341.9	2356.1	2361.6	2366.0
5°	2125.7	2142.1	2158.6	2176.1	2208.0	2250.2	2291.9	2295.8	2341.9	2375.9	2394.0
7.5°	1986.3	2001.1	2020.9	2048.8	2093.8	2160.2	2229.9	2238.2	2325.4	2402.8	2443.4
10°	1843.1	1855.2	1883.7	1924.8	1986.8	2075.7	2169.6	2183.3	2310.6	2439.0	2510.3
12.5°	1690.0	1697.1	1731.7	1791.0	1882.0	1995.1	2118.5	2136.6	2301.3	2480.7	2589.3
15°	1573.7	1577.0	1609.9	1671.3	1775.6	1922.6	2079.0	2101.0	2303.4	2530.6	2675.5
17.5°	1544.0	1545.7	1563.2	1605.5	1697.7	1857.9	2047.8	2074.6	2310.0	2579.4	2762.2
20°	1664.2	1652.7	1634.6	1628.0	1667.5	1818.9	2029.1	2059.3	2318.8	2622.8	2840.1
22.5°	1994.0	1960.0	1884.8	1784.4	1723.5	1821.7	2034.0	2064.2	2346.8	2676.0	2930.1
25°	2483.4	2436.2	2308.4	2110.9	1921.0	1900.7	2075.2	2105.9	2401.1	2739.7	3016.2
27.5°	3040.4	2993.7	2837.3	2555.3	2231.6	2057.1	2169.6	2198.1	2481.8	2796.2	3082.1
30°	3573.7	3560.5	3376.2	3055.7	2622.2	2310.6	2291.4	2315.5	2541.6	2830.2	3134.2
32.5°	4025.8	4005.0	3856.8	3545.2	3069.4	2615.1	2434.6	2441.7	2586.6	2874.1	3202.2
35°	4445.0	4419.2	4289.2	3994.5	3528.1	2987.1	2655.2	2644.7	2684.8	2962.4	3301.0
37.5°	4811.0	4834.6	4690.3	4409.9	3939.7	3374.0	2952.6	2921.3	2838.4	3106.2	3444.2
40°	5117.2	5117.2	5042.0	4808.3	4384.1	3774.0	3288.9	3247.8	3069.4	3327.9	3625.8
42.5°	5227.5	5251.1	5279.1	5146.8	4781.9	4189.9	3663.7	3620.9	3394.8	3642.3	3855.2
45°	5234.1	5271.4	5414.6	5414.0	5141.3	4603.1	4086.2	4065.9	3811.8	4046.1	4139.4
47.5°	5141.3	5188.0	5423.9	5557.8	5426.1	4987.7	4548.2	4522.9	4301.8	4541.0	4436.8
50°	4998.1	5049.7	5324.0	5614.3	5619.8	5322.4	5034.9	4997.0	4841.2	5106.8	4744.1
52.5°	4741.9	4841.7	5234.6	5627.5	5747.1	5611.6	5498.0	5481.5	5444.8	5651.6	4988.8
55°	4193.7	4304.6	5010.2	5631.9	5865.1	5867.8	5932.0	5936.4	6010.5	6160.8	5171.0
57.5°	3934.7	3997.3	4618.4	5652.7	6040.1	6158.6	6374.3	6408.3	6523.0	6644.2	5378.9
60°	3771.8	3845.8	4425.3	5624.2	6315.0	6540.0	6784.1	6795.7	6918.6	7143.0	5660.4
62.5°	3641.7	3714.7	4303.5	5514.4	6623.9	6998.7	7184.7	7185.8	7278.0	7737.2	5980.3
65°	3320.7	3382.2	4057.1	5391.0	6828.0	7452.5	7650.0	7642.9	7718.0	8363.8	6351.8
67.5°	2856.5	2903.7	3553.9	4922.9	6751.2	7865.1	8352.3	8328.7	8237.6	8905.4	6497.7
70°	2208.5	2225.5	2801.1	4102.6	6031.3	8023.7	9031.1	9019.0	8556.4	8808.3	5962.7
71°	1825.5	1881.5	2468.6	3620.9	5549.0	7877.2	9096.9	9104.0	8476.3	8543.8	5594.6
72.5°	1060.1	1107.8	1789.3	2780.8	4711.1	7265.9	8755.6	8807.2	8102.1	7771.3	4778.6
75°	227.2	243.1	663.4	1346.0	2591.5	5092.5	6910.9	7094.7	6603.6	5286.7	2880.1
77.5°	158.0	170.6	284.2	610.7	856.5	2516.3	4293.0	4500.4	3945.2	1986.8	921.8
80°	125.1	139.4	221.7	301.8	231.6	811.5	2011.0	2137.7	1315.8	443.4	155.3
82.5°	69.7	82.9	172.8	163.0	88.9	154.2	563.0	636.5	263.4	89.4	36.8
85°	20.3	24.7	111.4	118.5	37.9	29.6	96.0	119.1	49.9	23.6	16.5
87.5°	0.0	0.0	53.8	45.5	11.0	4.4	8.8	9.9	9.9	9.9	11.0
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°	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7	2356.7
2.5°	2366.0	2369.8	2356.1	2338.0	2318.8	2295.2	2270.5	2251.3	2250.8	2241.4	2232.1
5°	2395.1	2392.9	2355.0	2297.4	2229.4	2158.6	2091.1	2014.8	1989.6	1958.3	1947.9
7.5°	2448.9	2433.5	2353.4	2227.2	2077.9	1929.8	1776.7	1622.5	1556.7	1497.4	1487.0
10°	2516.3	2487.3	2343.0	2121.8	1848.0	1574.8	1343.8	1134.2	1042.0	971.2	967.9
12.5°	2586.6	2542.1	2313.9	1962.7	1546.8	1162.7	896.6	690.3	613.4	564.1	568.5
15°	2660.1	2593.7	2251.3	1748.2	1203.9	789.0	550.9	429.6	398.9	386.3	389.6
17.5°	2735.3	2629.4	2164.1	1489.7	865.3	509.2	381.3	347.3	347.3	350.1	351.2
20°	2800.6	2648.6	2035.7	1200.0	586.6	370.9	333.6	328.7	331.4	335.8	336.4
22.5°	2865.3	2649.7	1868.3	906.5	410.4	324.8	317.7	315.5	317.1	322.1	322.6
25°	2918.0	2636.5	1658.7	644.7	327.6	306.2	302.9	301.8	302.9	308.9	308.9
27.5°	2939.4	2588.8	1403.0	453.2	293.6	285.3	284.2	285.3	287.0	291.4	291.9
30°	2941.6	2505.4	1124.3	328.1	266.1	257.3	259.5	263.4	261.7	260.6	261.7
32.5°	2947.1	2408.8	852.7	270.0	243.1	229.4	226.6	226.6	220.0	216.2	214.0
35°	2965.2	2295.2	618.4	242.5	219.5	203.6	193.1	181.1	168.5	161.9	160.2
37.5°	2993.7	2176.1	442.8	224.4	198.6	180.5	160.8	139.4	121.3	116.3	116.3
40°	3045.8	2053.2	327.6	210.2	182.2	159.7	130.0	102.1	85.6	82.9	82.9
42.5°	3128.1	1923.7	261.2	197.5	167.9	138.3	99.3	74.1	62.0	60.4	59.8
45°	3213.7	1781.1	228.3	185.5	152.5	113.6	73.5	54.9	47.7	46.1	46.1
47.5°	3299.3	1629.1	212.3	173.9	137.7	88.3	54.9	43.3	40.1	40.1	40.6
50°	3371.8	1470.5	200.8	161.3	118.5	66.9	43.3	36.8	35.7	37.9	38.4
52.5°	3389.9	1314.7	186.6	145.4	94.9	51.0	35.7	32.4	32.4	32.4	32.4
55°	3378.9	1194.0	167.9	125.7	70.2	40.6	30.7	28.5	28.0	28.0	28.0
57.5°	3416.2	1122.6	134.4	97.7	50.5	32.9	26.9	25.2	24.1	23.6	23.6
60°	3491.4	1076.0	96.0	70.2	37.9	27.4	23.0	21.4	19.8	18.7	18.7
62.5°	3591.2	1035.4	71.3	52.1	29.1	21.9	19.2	17.6	15.4	14.3	14.3
65°	3668.1	963.0	54.3	39.0	21.9	17.6	14.8	14.3	11.0	9.9	9.3
67.5°	3550.6	803.8	43.9	28.5	16.5	13.7	11.5	11.0	6.6	5.5	5.5
70°	3045.3	559.7	35.1	20.9	12.1	11.0	9.3	7.1	4.9	4.4	4.4
71°	2761.6	467.5	31.8	17.6	10.4	10.4	8.8	6.0	4.4	3.8	3.8
72.5°	2294.1	332.0	26.9	13.7	9.3	11.0	9.3	5.5	4.4	3.8	3.3
75°	1331.7	138.8	18.7	9.3	7.1	13.2	12.1	4.9	3.3	2.7	2.7
77.5°	400.6	51.0	10.4	6.0	5.5	11.5	13.7	4.4	1.6	0.5	0.5
80°	73.0	21.9	6.6	3.8	3.8	7.1	10.4	2.2	0.0	0.0	0.0
82.5°	25.8	11.0	3.8	2.2	1.6	3.3	4.9	0.0	0.0	0.0	0.0
85°	14.8	7.7	2.2	1.1	0.0	0.5	1.1	0.0	0.0	0.0	0.0
87.5°	9.9	2.2	0.0	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)