

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: P321597

Luminaire Tested: **GAN-SA3B-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321597
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-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 13418 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

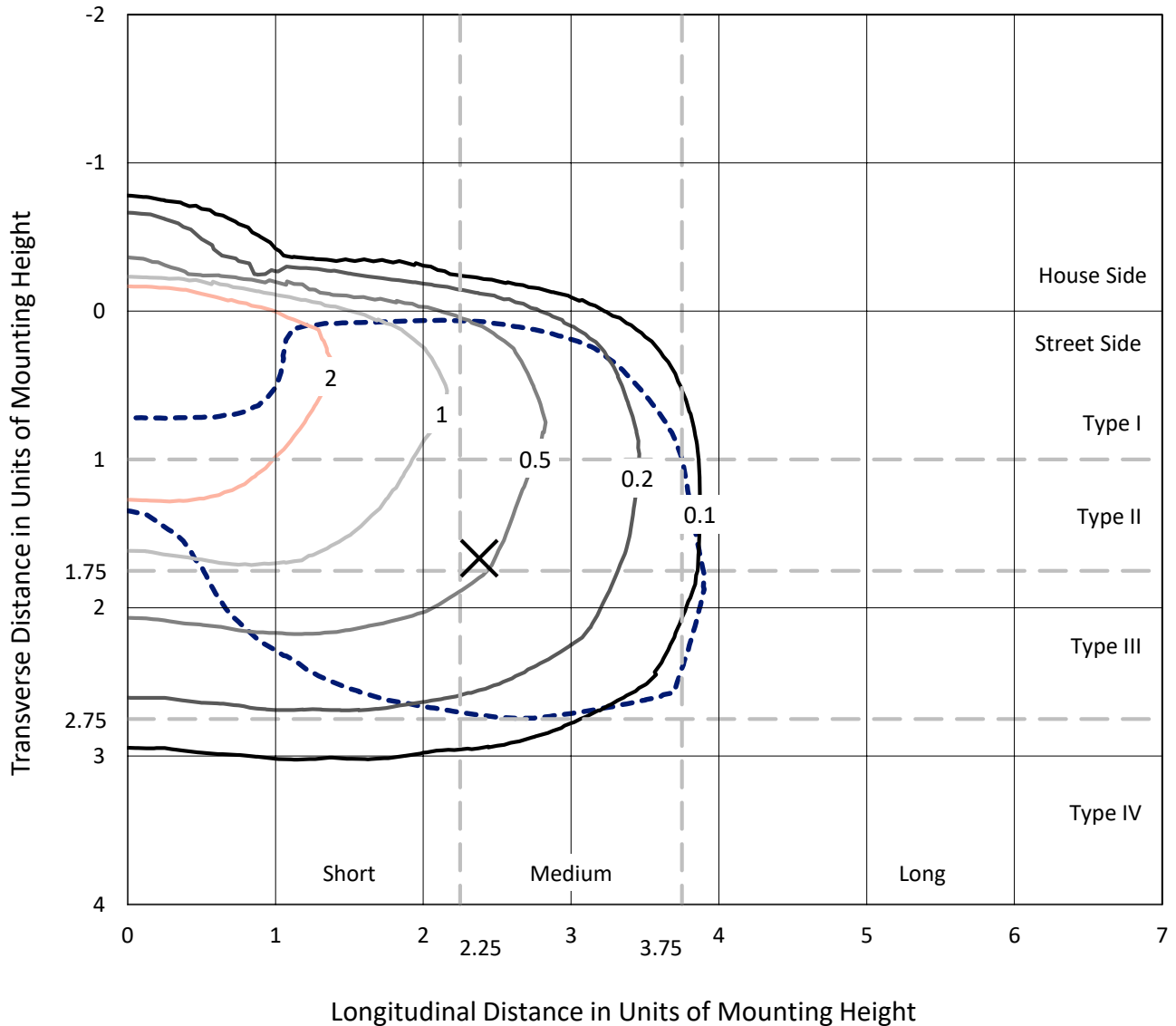
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

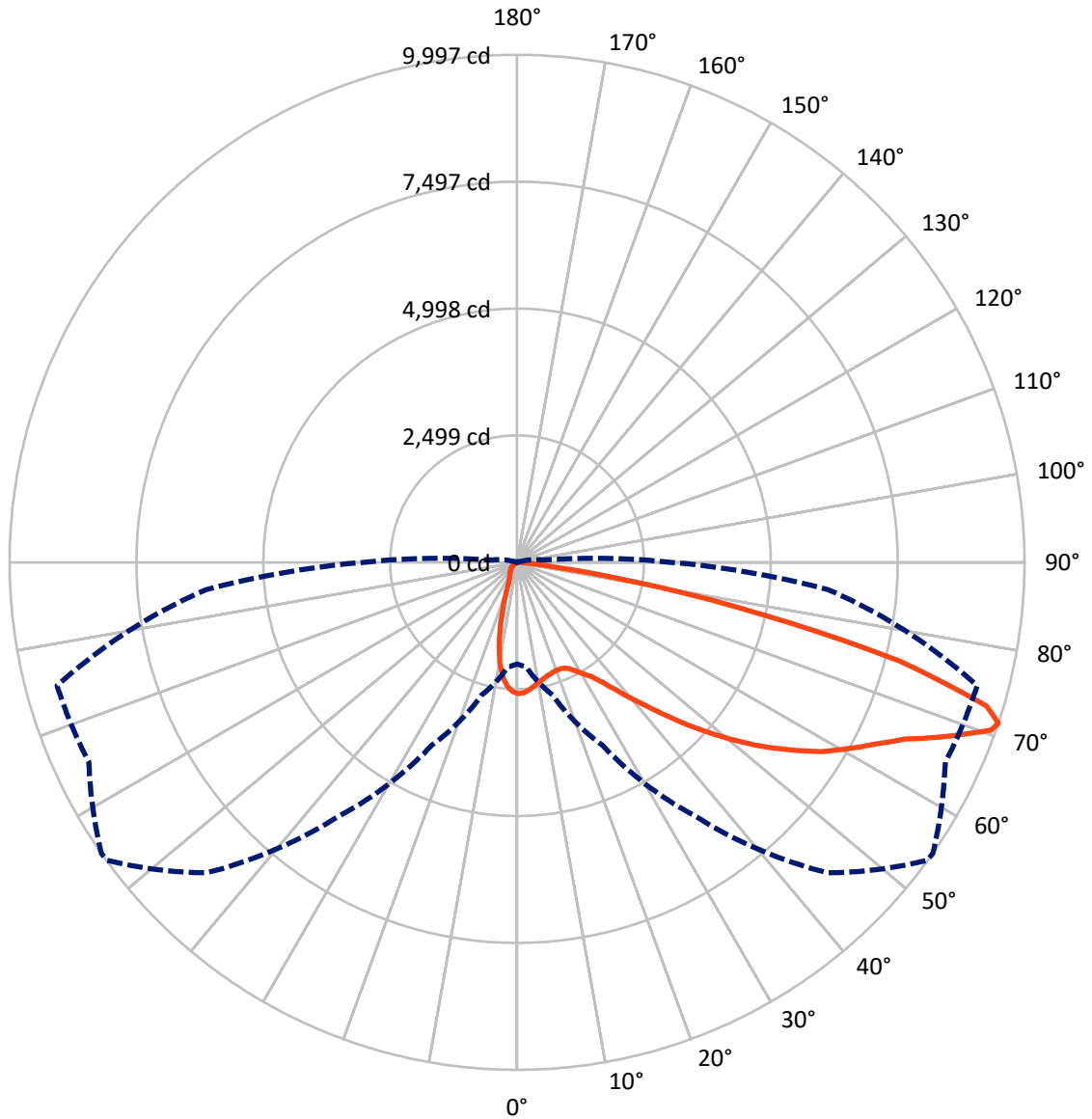
✕ Max cd
 - - - 1/2 Max cd



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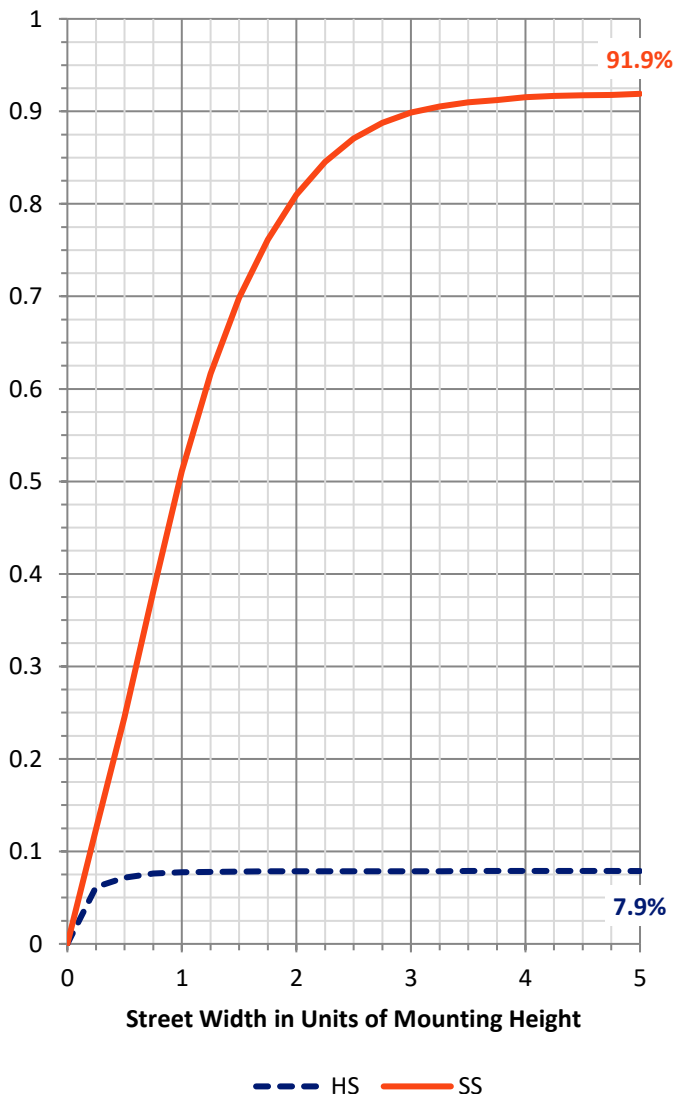
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1062.3	0.0	1062.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	12355.7	0.0	12355.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	13418.0	0.0	13418.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	1.6
10°-20°	498.1	3.7
20°-30°	800.5	6.0
30°-40°	1360.0	10.1
40°-50°	2111.0	15.7
50°-60°	2838.1	21.2
60°-70°	3472.0	25.9
70°-80°	2030.0	15.1
80°-90°	87.7	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°	13418.0	100.0
0°-180°	13418.0	100.0

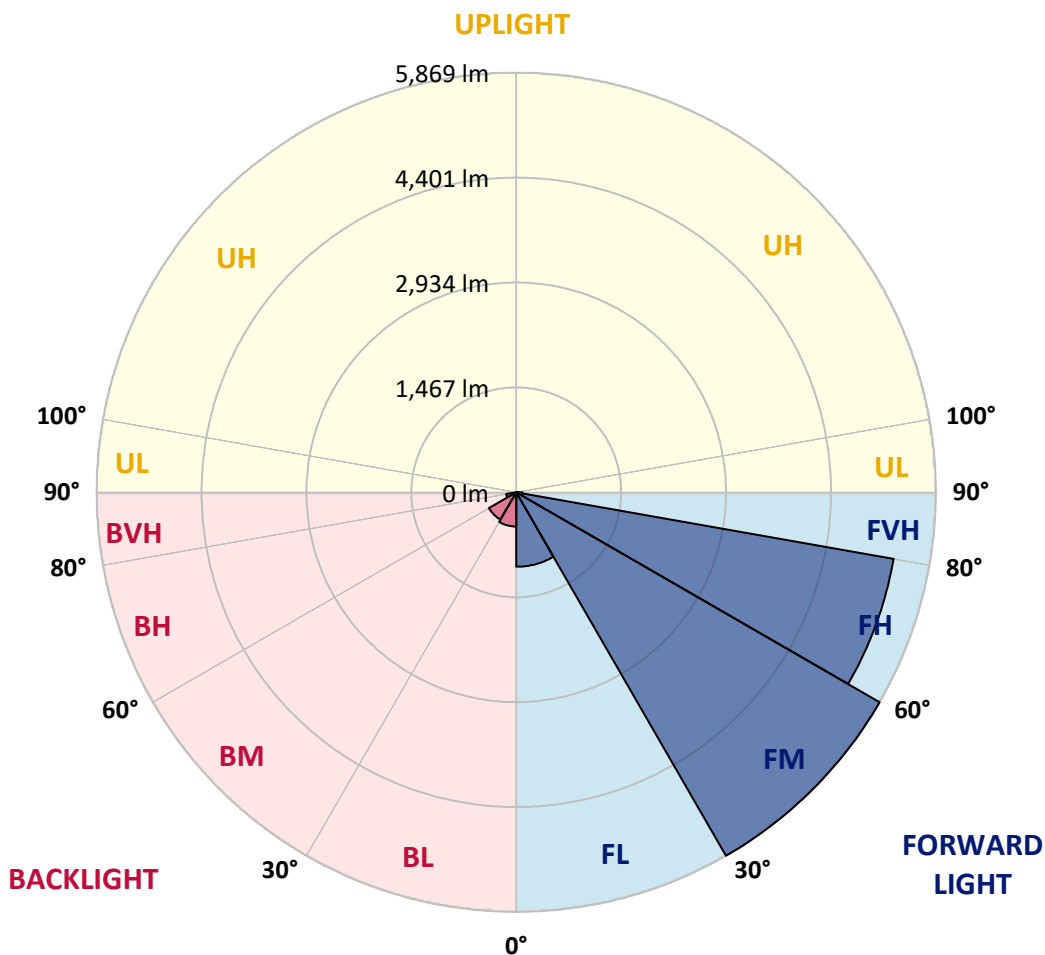


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.1	7.8			
FM (30°-60°)	5868.6	43.7			
FH (60°-80°)	5359.6	39.9			G3/7500
FVH (80°-90°)	86.4	0.6			G1/100
BL (0°-30°)	478.2	3.6	B1/500		
BM (30°-60°)	440.5	3.3	B1/1000		
BH (60°-80°)	142.3	1.1	B1/500		G1/500
BVH (80°-90°)	1.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7
2.5°	2511.8	2514.8	2525.7	2530.5	2541.9	2561.2	2570.8	2571.4	2587.1	2593.1	2598.0
5°	2334.1	2352.1	2370.2	2389.5	2424.4	2470.8	2516.6	2520.8	2571.4	2608.8	2628.7
7.5°	2181.0	2197.3	2219.0	2249.7	2299.1	2372.0	2448.5	2457.6	2553.4	2638.3	2682.9
10°	2023.8	2037.0	2068.4	2113.5	2181.6	2279.2	2382.3	2397.3	2537.1	2678.1	2756.4
12.5°	1855.7	1863.5	1901.5	1966.5	2066.6	2190.7	2326.2	2346.1	2526.9	2723.9	2843.2
15°	1728.0	1731.6	1767.7	1835.2	1949.7	2111.1	2282.8	2306.9	2529.3	2778.7	2937.8
17.5°	1695.4	1697.2	1716.5	1762.9	1864.1	2040.0	2248.5	2278.0	2536.5	2832.3	3033.0
20°	1827.4	1814.7	1794.8	1787.6	1831.0	1997.3	2228.0	2261.2	2546.1	2879.9	3118.5
22.5°	2189.5	2152.1	2069.6	1959.3	1892.4	2000.3	2233.4	2266.6	2576.9	2938.4	3217.3
25°	2726.9	2675.1	2534.7	2317.8	2109.3	2087.0	2278.6	2312.4	2636.5	3008.2	3311.9
27.5°	3338.4	3287.2	3115.5	2805.8	2450.3	2258.7	2382.3	2413.6	2725.1	3070.3	3384.2
30°	3924.0	3909.6	3707.1	3355.3	2879.3	2537.1	2516.0	2542.5	2790.7	3107.7	3441.4
32.5°	4420.5	4397.6	4234.9	3892.7	3370.3	2871.5	2673.3	2681.1	2840.2	3155.9	3516.2
35°	4880.8	4852.5	4709.7	4386.2	3874.0	3280.0	2915.5	2904.0	2948.0	3252.9	3624.6
37.5°	5282.7	5308.6	5150.1	4842.2	4325.9	3704.7	3242.0	3207.7	3116.7	3410.7	3781.9
40°	5618.9	5618.9	5536.3	5279.7	4813.9	4144.0	3611.3	3566.2	3370.3	3654.1	3981.3
42.5°	5740.0	5765.9	5796.6	5651.4	5250.7	4600.6	4022.8	3975.9	3727.6	3999.4	4233.1
45°	5747.2	5788.2	5945.4	5944.8	5645.4	5054.3	4486.8	4464.5	4185.5	4442.8	4545.2
47.5°	5645.4	5696.6	5955.6	6102.7	5958.1	5476.7	4994.1	4966.4	4723.5	4986.2	4871.8
50°	5488.1	5544.7	5846.0	6164.7	6170.7	5844.2	5528.5	5486.9	5315.8	5607.4	5209.2
52.5°	5206.7	5316.4	5747.8	6179.2	6310.5	6161.7	6037.0	6018.9	5978.5	6205.7	5477.9
55°	4604.9	4726.6	5501.4	6184.0	6440.1	6443.1	6513.6	6518.4	6599.7	6764.8	5677.9
57.5°	4320.5	4389.2	5071.2	6206.9	6632.2	6762.4	6999.2	7036.5	7162.4	7295.6	5906.2
60°	4141.5	4222.9	4859.1	6175.6	6934.1	7181.1	7449.2	7461.9	7596.8	7843.3	6215.3
62.5°	3998.7	4078.9	4725.4	6055.1	7273.3	7684.8	7889.0	7890.3	7991.5	8495.8	6566.6
65°	3646.3	3713.8	4454.8	5919.5	7497.4	8183.1	8400.0	8392.1	8474.7	9183.8	6974.5
67.5°	3136.6	3188.4	3902.4	5405.6	7413.1	8636.1	9171.2	9145.2	9045.2	9778.5	7134.7
70°	2425.0	2443.7	3075.7	4504.8	6622.6	8810.3	9916.4	9903.2	9395.3	9671.8	6547.3
71°	2004.5	2066.0	2710.6	3975.9	6093.0	8649.4	9988.7	9996.6	9307.3	9381.4	6143.0
72.5°	1164.0	1216.4	1964.7	3053.4	5173.0	7978.2	9614.0	9670.6	8896.4	8533.1	5247.1
75°	249.4	266.9	728.4	1477.9	2845.6	5591.7	7588.4	7790.2	7251.0	5805.0	3162.5
77.5°	173.5	187.4	312.1	670.6	940.5	2763.0	4713.9	4941.7	4331.9	2181.6	1012.2
80°	137.4	153.0	243.4	331.4	254.3	891.1	2208.1	2347.3	1444.8	486.8	170.5
82.5°	76.5	91.0	189.8	178.9	97.6	169.3	618.2	698.9	289.2	98.2	40.4
85°	22.3	27.1	122.3	130.1	41.6	32.5	105.4	130.7	54.8	25.9	18.1
87.5°	0.0	0.0	59.0	50.0	12.0	4.8	9.6	10.8	10.8	10.8	12.0
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°	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7
2.5°	2598.0	2602.2	2587.1	2567.2	2546.1	2520.2	2493.1	2472.0	2471.4	2461.2	2450.9
5°	2629.9	2627.5	2585.9	2522.6	2447.9	2370.2	2296.1	2212.4	2184.6	2150.3	2138.9
7.5°	2688.9	2672.1	2584.1	2445.5	2281.6	2119.0	1950.9	1781.6	1709.3	1644.2	1632.8
10°	2763.0	2731.1	2572.6	2329.8	2029.2	1729.2	1475.5	1245.4	1144.1	1066.4	1062.8
12.5°	2840.2	2791.4	2540.7	2155.1	1698.4	1276.7	984.5	757.9	673.6	619.4	624.2
15°	2920.9	2848.0	2472.0	1919.5	1321.9	866.4	604.9	471.8	438.0	424.2	427.8
17.5°	3003.4	2887.1	2376.2	1635.8	950.1	559.1	418.7	381.4	381.4	384.4	385.6
20°	3075.1	2908.2	2235.3	1317.7	644.1	407.3	366.3	360.9	363.9	368.7	369.3
22.5°	3146.2	2909.4	2051.5	995.3	450.7	356.7	348.8	346.4	348.2	353.7	354.3
25°	3204.1	2895.0	1821.3	707.9	359.7	336.2	332.6	331.4	332.6	339.2	339.2
27.5°	3227.6	2842.6	1540.6	497.7	322.3	313.3	312.1	313.3	315.1	319.9	320.5
30°	3230.0	2751.0	1234.5	360.3	292.2	282.6	285.0	289.2	287.4	286.2	287.4
32.5°	3236.0	2644.9	936.3	296.4	266.9	251.8	248.8	248.8	241.6	237.4	235.0
35°	3255.9	2520.2	679.0	266.3	241.0	223.5	212.1	198.8	185.0	177.7	175.9
37.5°	3287.2	2389.5	486.2	246.4	218.1	198.2	176.5	153.0	133.2	127.7	127.7
40°	3344.4	2254.5	359.7	230.8	200.0	175.3	142.8	112.1	94.0	91.0	91.0
42.5°	3434.8	2112.3	286.8	216.9	184.4	151.8	109.1	81.3	68.1	66.3	65.7
45°	3528.8	1955.7	250.6	203.6	167.5	124.7	80.7	60.2	52.4	50.6	50.6
47.5°	3622.8	1788.8	233.2	191.0	151.2	97.0	60.2	47.6	44.0	44.0	44.6
50°	3702.3	1614.7	220.5	177.1	130.1	73.5	47.6	40.4	39.2	41.6	42.2
52.5°	3722.2	1443.6	204.8	159.7	104.2	56.0	39.2	35.5	35.5	35.5	35.5
55°	3710.2	1311.0	184.4	138.0	77.1	44.6	33.7	31.3	30.7	30.7	30.7
57.5°	3751.1	1232.7	147.6	107.2	55.4	36.1	29.5	27.7	26.5	25.9	25.9
60°	3833.7	1181.5	105.4	77.1	41.6	30.1	25.3	23.5	21.7	20.5	20.5
62.5°	3943.3	1136.9	78.3	57.2	31.9	24.1	21.1	19.3	16.9	15.7	15.7
65°	4027.7	1057.4	59.6	42.8	24.1	19.3	16.3	15.7	12.0	10.8	10.2
67.5°	3898.7	882.7	48.2	31.3	18.1	15.1	12.7	12.0	7.2	6.0	6.0
70°	3343.8	614.5	38.6	22.9	13.3	12.0	10.2	7.8	5.4	4.8	4.8
71°	3032.3	513.3	34.9	19.3	11.4	11.4	9.6	6.6	4.8	4.2	4.2
72.5°	2519.0	364.5	29.5	15.1	10.2	12.0	10.2	6.0	4.8	4.2	3.6
75°	1462.3	152.4	20.5	10.2	7.8	14.5	13.3	5.4	3.6	3.0	3.0
77.5°	439.8	56.0	11.4	6.6	6.0	12.7	15.1	4.8	1.8	0.6	0.6
80°	80.1	24.1	7.2	4.2	4.2	7.8	11.4	2.4	0.0	0.0	0.0
82.5°	28.3	12.0	4.2	2.4	1.8	3.6	5.4	0.0	0.0	0.0	0.0
85°	16.3	8.4	2.4	1.2	0.0	0.6	1.2	0.0	0.0	0.0	0.0
87.5°	10.8	2.4	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)