

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: P324746

Luminaire Tested: **GAN-SA2A-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324746  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7108 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

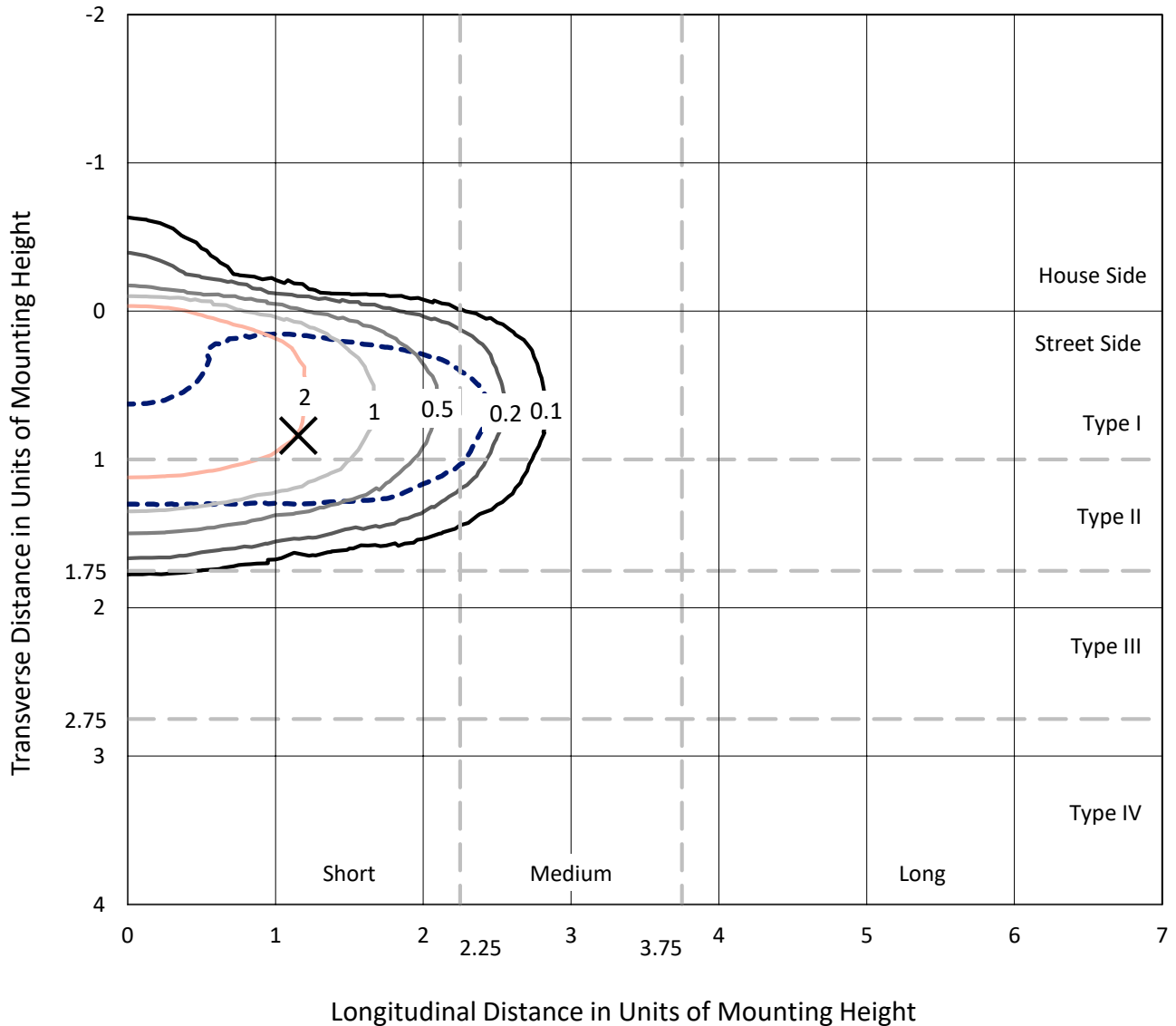
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

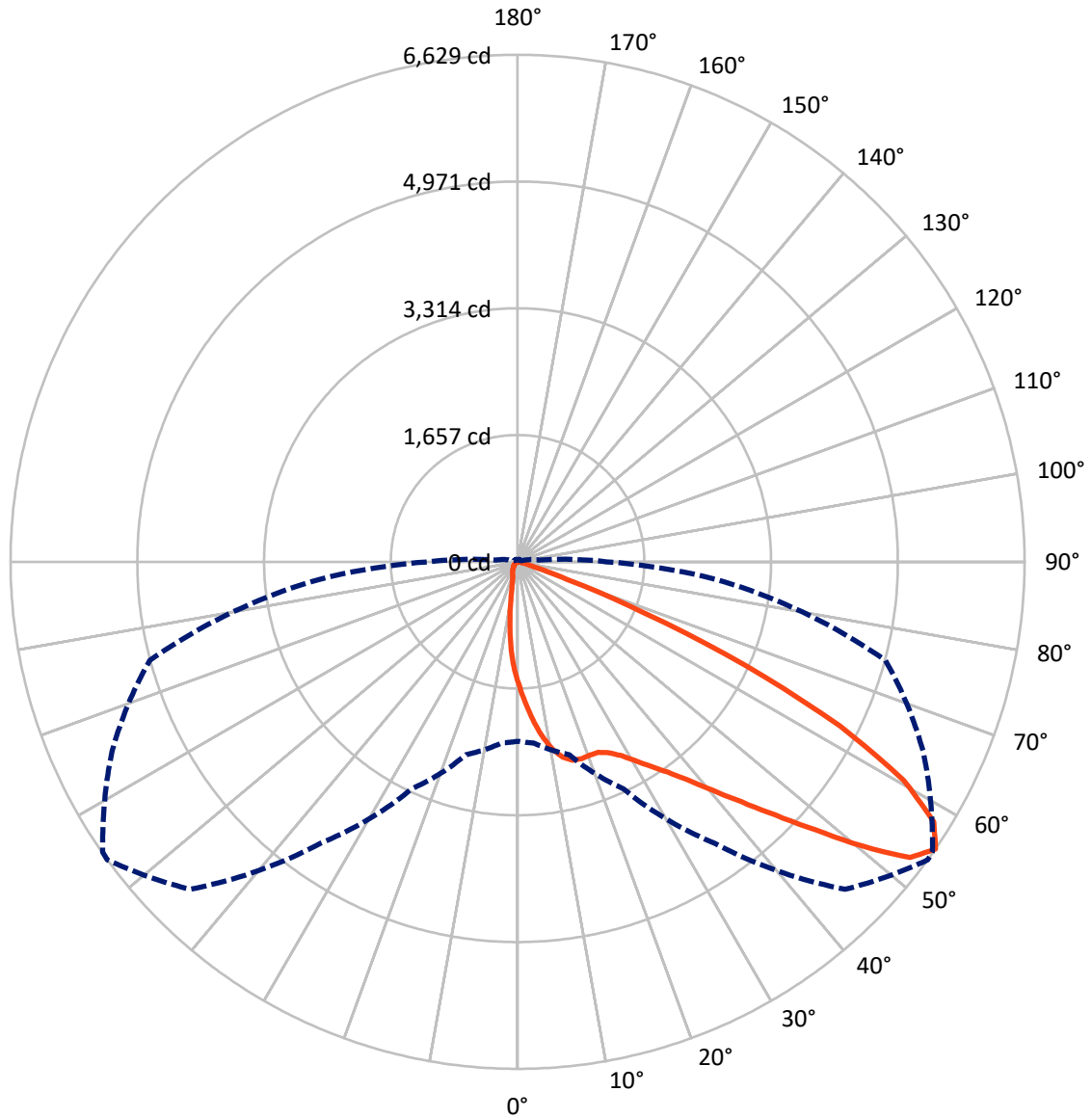
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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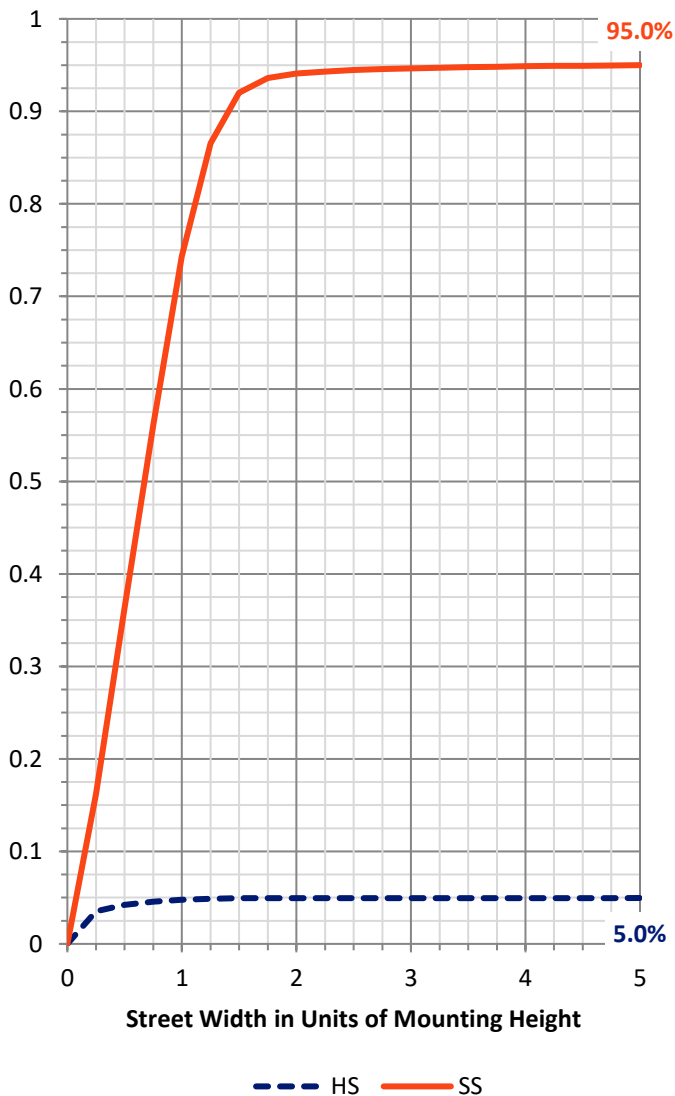
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	354.6	0.0	354.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	6753.4	0.0	6753.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	7108.0	0.0	7108.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	2.1
10°-20°	402.0	5.7
20°-30°	686.4	9.7
30°-40°	1101.6	15.5
40°-50°	1760.4	24.8
50°-60°	1886.3	26.5
60°-70°	968.5	13.6
70°-80°	146.7	2.1
80°-90°	9.5	0.1
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°	7108.0	100.0
0°-180°	7108.0	100.0

**Coefficient of Utilization**



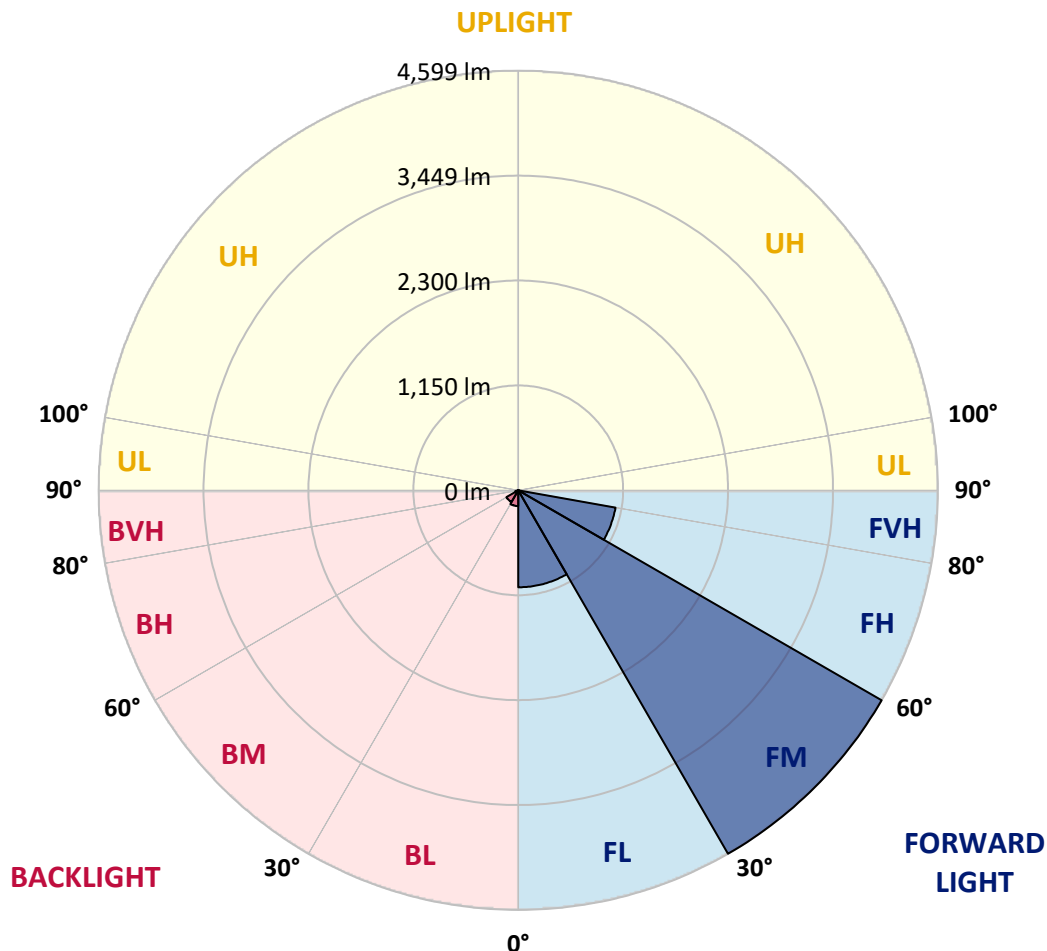
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.5	14.9			
FM (30°-60°)	4599.2	64.7			
FH (60°-80°)	1082.5	15.2			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	172.5	2.4	B1/500		
BM (30°-60°)	149.0	2.1	B0/220		
BH (60°-80°)	32.7	0.5	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9
2.5°	1997.7	1967.9	1968.9	1955.4	1905.9	1867.3	1827.0	1817.5	1754.9	1689.2	1626.0
5°	2343.0	2321.2	2316.0	2289.9	2221.2	2148.4	2070.5	2052.4	1929.9	1795.4	1663.1
7.5°	2520.5	2520.8	2516.5	2507.0	2464.0	2393.4	2298.2	2279.2	2112.5	1910.8	1701.8
10°	2468.9	2480.6	2504.5	2536.1	2569.0	2560.1	2488.5	2471.4	2290.2	2033.0	1744.8
12.5°	2348.6	2350.1	2376.8	2428.7	2523.2	2620.2	2621.5	2615.6	2460.0	2160.7	1792.0
15°	2288.7	2294.5	2304.4	2337.8	2427.5	2582.8	2693.9	2702.2	2615.6	2296.4	1842.4
17.5°	2328.0	2336.3	2328.0	2332.0	2383.9	2523.5	2706.5	2727.7	2751.6	2430.5	1890.0
20°	2434.5	2442.2	2427.5	2411.2	2421.3	2506.3	2697.6	2726.1	2858.1	2549.6	1929.9
22.5°	2578.2	2581.2	2558.8	2532.1	2524.8	2564.7	2705.0	2734.4	2943.5	2657.4	1955.0
25°	2736.3	2739.0	2711.1	2680.4	2662.9	2679.2	2765.4	2787.5	3018.7	2760.2	1969.5
27.5°	2908.5	2910.9	2875.9	2838.2	2817.9	2818.5	2865.2	2888.8	3098.8	2877.5	1981.1
30°	3090.5	3089.3	3057.0	3004.5	2978.8	2978.1	3008.8	3032.8	3214.8	3027.9	1997.1
32.5°	3294.9	3292.5	3246.7	3181.7	3152.5	3156.8	3184.1	3197.9	3358.8	3188.1	2025.6
35°	3564.1	3557.1	3488.0	3407.3	3353.6	3352.0	3375.1	3386.1	3542.3	3382.1	2073.2
37.5°	3913.5	3907.0	3813.4	3696.1	3620.6	3592.4	3619.7	3633.8	3804.2	3631.1	2149.7
40°	4257.9	4251.4	4195.9	4088.4	3972.1	3904.3	3925.7	3940.8	4131.1	3933.1	2246.0
42.5°	4495.5	4501.0	4520.3	4529.2	4420.3	4277.8	4287.7	4303.3	4474.6	4256.0	2356.2
45°	4558.1	4570.1	4679.3	4893.9	4934.7	4823.6	4720.8	4729.4	4823.6	4579.0	2466.4
47.5°	4369.9	4392.0	4602.9	5002.0	5347.6	5426.2	5231.6	5220.2	5158.5	4840.2	2544.7
50°	3942.3	3962.6	4235.8	4826.1	5472.8	6001.4	5843.6	5810.2	5452.3	4996.4	2572.3
52.5°	3323.5	3348.0	3570.0	4272.3	5236.8	6258.0	6423.2	6395.3	5667.8	5008.7	2576.9
55°	2347.0	2376.8	2611.6	3274.4	4488.7	6053.9	6628.5	6620.3	5846.7	4976.2	2586.8
57.5°	1319.0	1340.5	1593.7	2099.0	3287.6	5273.0	6414.0	6468.9	5954.8	4919.7	2601.5
60°	585.7	591.5	722.6	1044.9	1924.7	4029.8	5799.7	5892.4	5862.1	4844.2	2626.4
62.5°	324.8	319.9	319.9	434.4	836.5	2494.7	4729.4	4882.5	5466.4	4754.8	2627.6
65°	254.5	249.9	236.7	238.5	318.6	1107.2	3275.0	3547.3	4714.9	4493.0	2539.2
67.5°	215.8	211.8	198.6	193.4	198.0	365.3	1799.4	2082.1	3577.6	3812.5	2199.4
70°	182.3	179.6	172.8	166.4	154.7	180.5	688.5	880.7	2204.6	2536.1	1501.4
72.5°	146.7	145.5	148.0	142.4	128.3	120.3	235.4	285.2	990.3	1131.8	618.5
75°	126.5	125.9	127.1	121.6	105.6	83.8	119.7	130.8	279.3	276.9	125.2
77.5°	82.3	83.2	105.3	102.8	90.9	55.9	62.0	66.9	84.7	63.5	38.1
80°	52.5	51.9	53.4	85.3	81.7	42.7	31.0	32.5	40.8	31.3	18.4
82.5°	31.9	31.3	35.0	39.9	41.1	29.8	19.0	19.3	25.5	20.3	9.8
85°	2.8	3.7	21.2	19.6	14.1	9.2	9.2	9.8	13.5	12.0	5.5
87.5°	0.0	0.0	3.7	5.5	3.1	3.4	3.4	3.7	5.2	5.2	2.8
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°	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9	1591.9
2.5°	1593.1	1561.2	1496.7	1434.7	1382.3	1331.6	1273.9	1216.8	1190.1	1179.3	1168.3
5°	1595.9	1530.2	1397.3	1263.5	1124.7	999.8	893.3	784.0	729.3	705.4	694.3
7.5°	1599.6	1499.5	1284.6	1059.9	836.5	667.0	519.1	423.9	382.8	376.3	360.4
10°	1600.2	1462.4	1153.9	835.2	560.8	402.1	309.4	260.3	242.2	239.1	233.9
12.5°	1601.4	1418.5	1008.7	618.5	373.9	268.9	223.8	207.5	202.6	202.3	202.3
15°	1605.1	1372.4	858.0	445.7	268.6	213.0	196.5	190.0	188.2	189.1	188.8
17.5°	1605.1	1318.1	710.0	332.1	217.0	191.5	182.3	178.0	177.4	178.3	178.7
20°	1593.4	1252.1	574.3	258.5	192.5	177.7	169.4	165.5	163.9	164.5	164.8
22.5°	1565.5	1171.1	463.8	214.0	176.2	165.1	156.2	150.1	147.6	148.0	148.0
25°	1521.9	1075.0	362.8	185.1	163.0	151.6	141.2	134.1	132.6	132.3	132.9
27.5°	1466.1	968.8	288.9	163.0	147.3	136.6	126.2	120.3	119.1	119.4	119.7
30°	1411.1	858.6	227.8	144.3	129.8	119.7	111.7	109.0	109.0	109.9	110.2
32.5°	1360.8	752.7	180.2	128.0	114.2	105.0	100.4	100.1	101.6	102.2	102.5
35°	1317.5	654.8	149.2	115.4	101.9	93.9	92.4	93.6	95.5	96.7	97.0
37.5°	1286.8	567.3	130.5	105.0	92.4	85.9	85.6	88.1	90.6	93.3	93.9
40°	1273.9	493.3	117.6	95.8	84.7	79.8	78.9	82.3	86.9	90.9	91.5
42.5°	1263.2	432.8	106.5	86.9	78.6	71.5	71.2	75.5	81.0	85.0	85.9
45°	1253.9	384.3	96.4	77.4	70.6	61.4	62.3	67.8	72.1	76.4	77.4
47.5°	1234.9	344.4	85.3	67.2	58.3	52.5	54.3	59.2	62.6	69.1	70.0
50°	1200.8	311.9	74.0	54.9	47.6	45.4	48.2	51.6	55.9	61.4	62.0
52.5°	1177.8	287.3	64.2	46.0	39.3	39.9	42.7	43.9	46.4	48.5	47.9
55°	1164.6	273.8	56.2	39.9	33.5	35.3	35.9	34.4	33.2	31.0	30.1
57.5°	1163.1	261.5	50.0	34.7	29.5	30.4	28.2	23.0	18.7	16.3	15.7
60°	1160.6	246.5	45.1	29.2	26.1	24.9	20.3	12.6	8.9	8.3	8.3
62.5°	1133.9	223.2	41.4	24.6	22.1	18.7	11.7	5.8	4.9	5.2	5.2
65°	1048.9	190.6	37.8	20.0	17.5	13.5	5.8	3.4	1.8	2.1	2.1
67.5°	891.7	151.9	33.8	15.3	13.2	8.6	3.4	1.5	0.0	0.0	0.0
70°	597.0	94.2	28.5	10.7	8.6	5.2	2.5	0.3	0.0	0.0	0.0
72.5°	229.0	51.0	23.0	6.4	5.5	3.7	1.5	0.0	0.0	0.0	0.0
75°	51.6	33.5	16.0	4.6	4.0	2.5	0.6	0.0	0.0	0.0	0.0
77.5°	19.6	24.3	9.2	3.1	2.8	1.5	0.0	0.0	0.0	0.0	0.0
80°	9.5	14.4	4.3	1.8	1.5	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.9	5.5	1.8	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	2.8	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.9	0.3	0.3	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)