

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: P192660

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-AFL-7030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA 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: 7790.2 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 85  
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: 28.75 FT

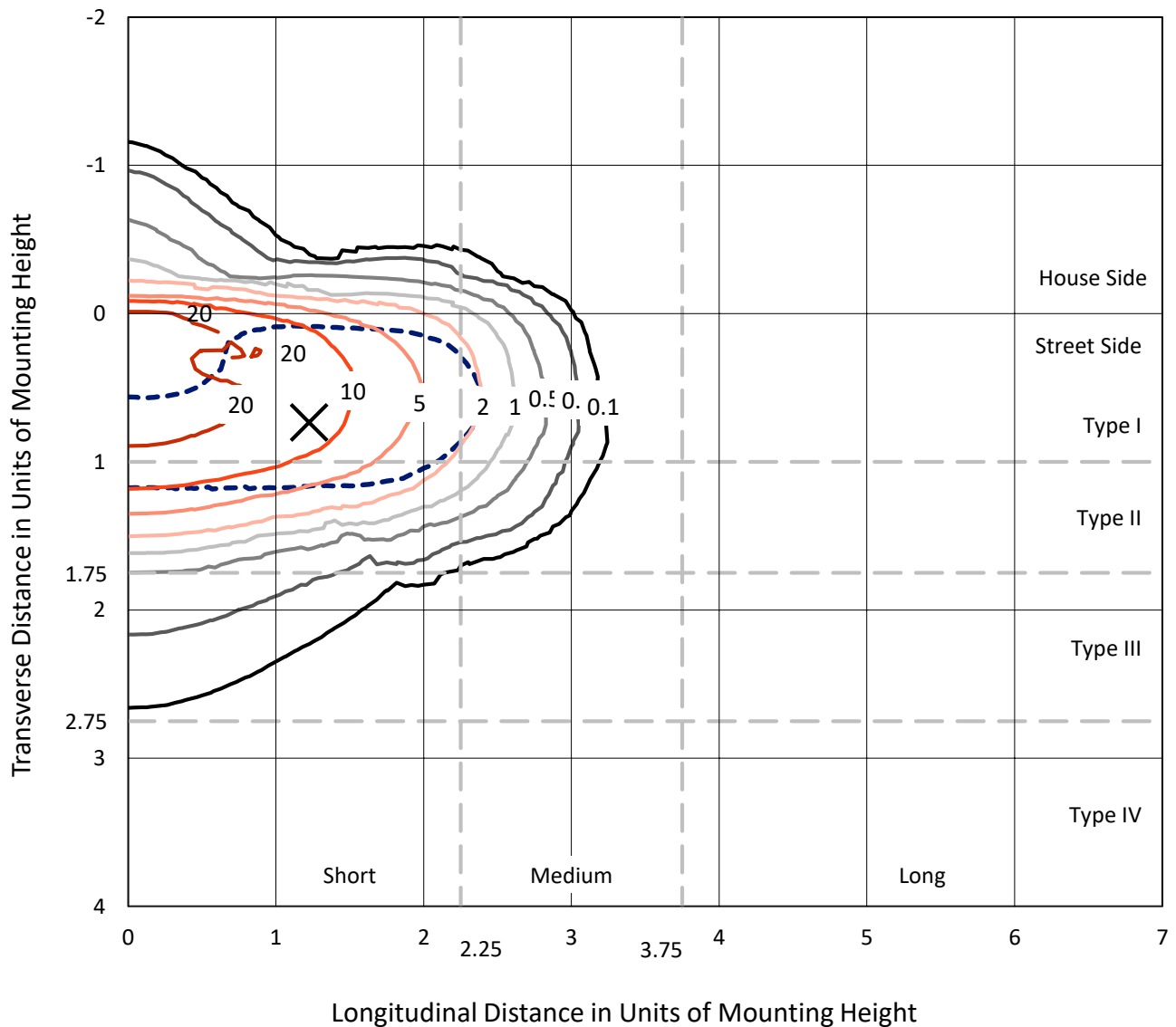


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

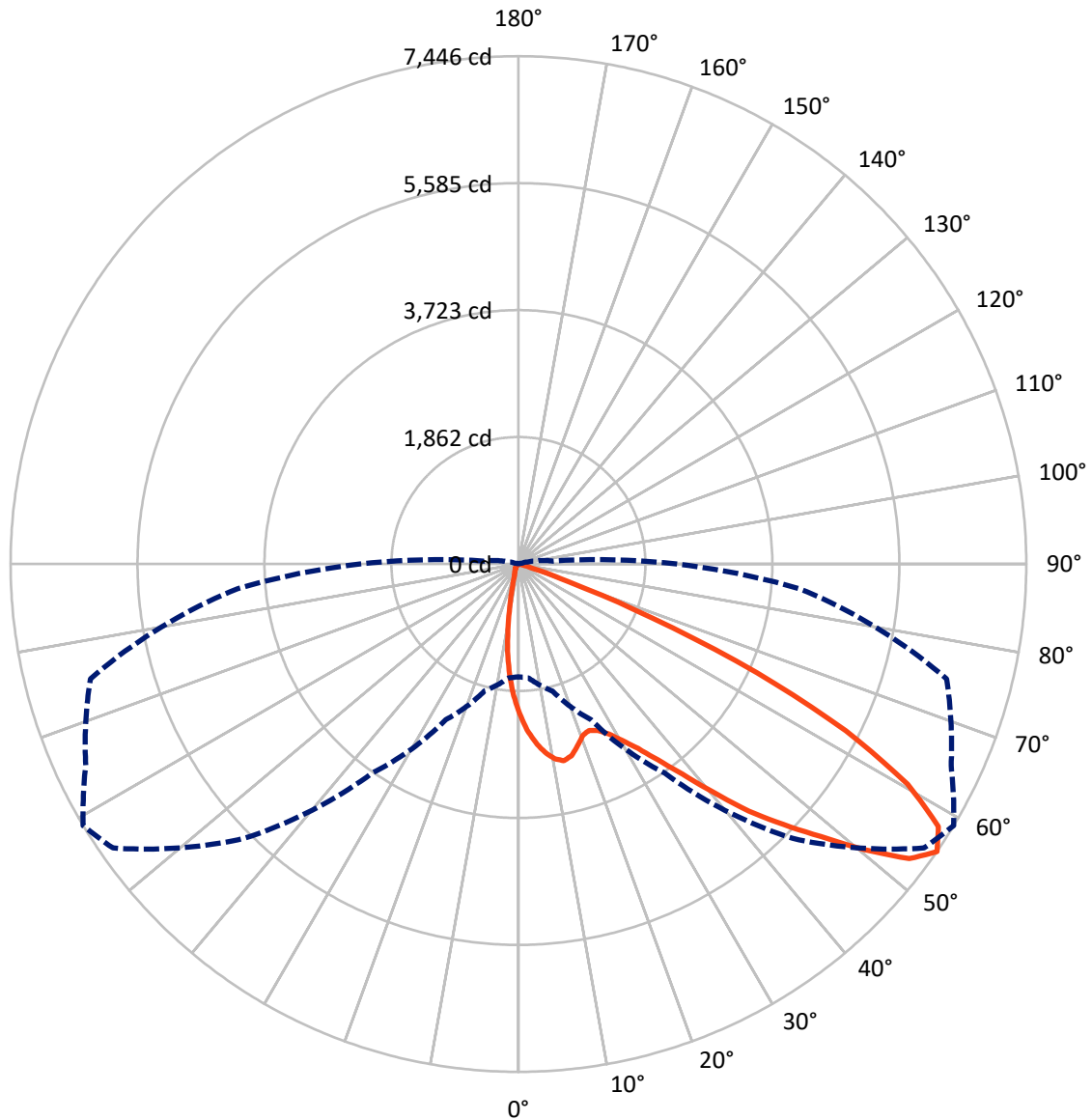


Based on 10 foot mounting height. Maximum calculated value = 27.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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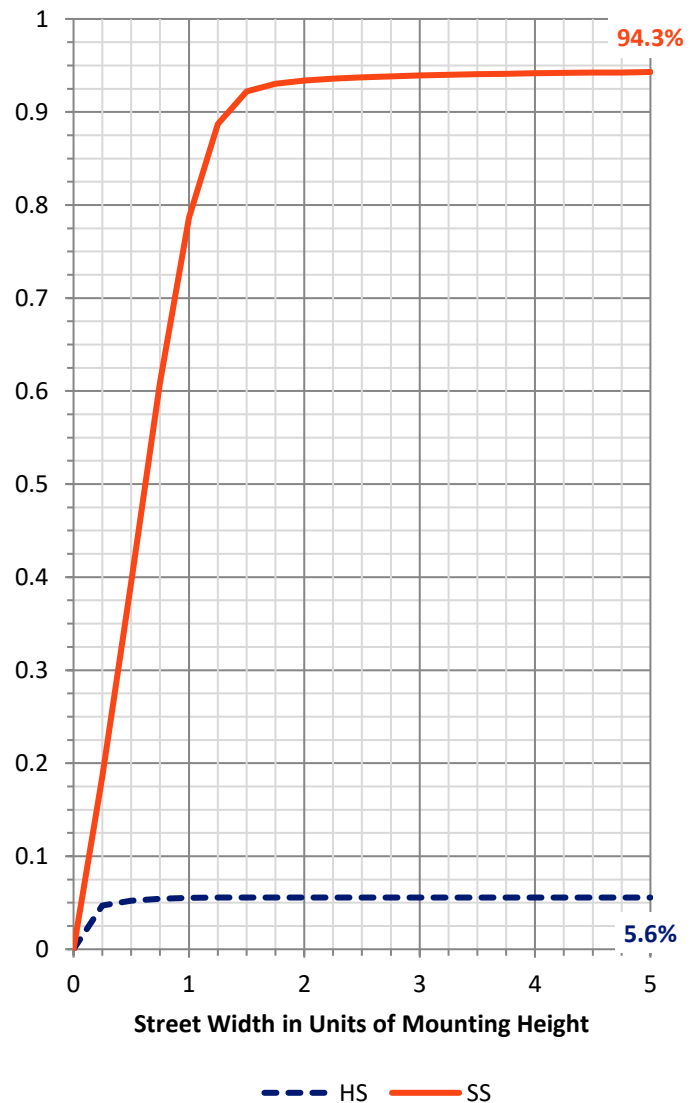
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	435.1	0.0	435.1
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	7355.0	0.0	7355.0
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	7790.2	0.0	7790.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.7	2.4
10°-20°	439.8	5.6
20°-30°	748.3	9.6
30°-40°	1287.0	16.5
40°-50°	1986.9	25.5
50°-60°	1997.5	25.6
60°-70°	1024.3	13.1
70°-80°	111.0	1.4
80°-90°	11.6	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°	7790.2	100.0
0°-180°	7790.2	100.0

**Coefficient of Utilization**



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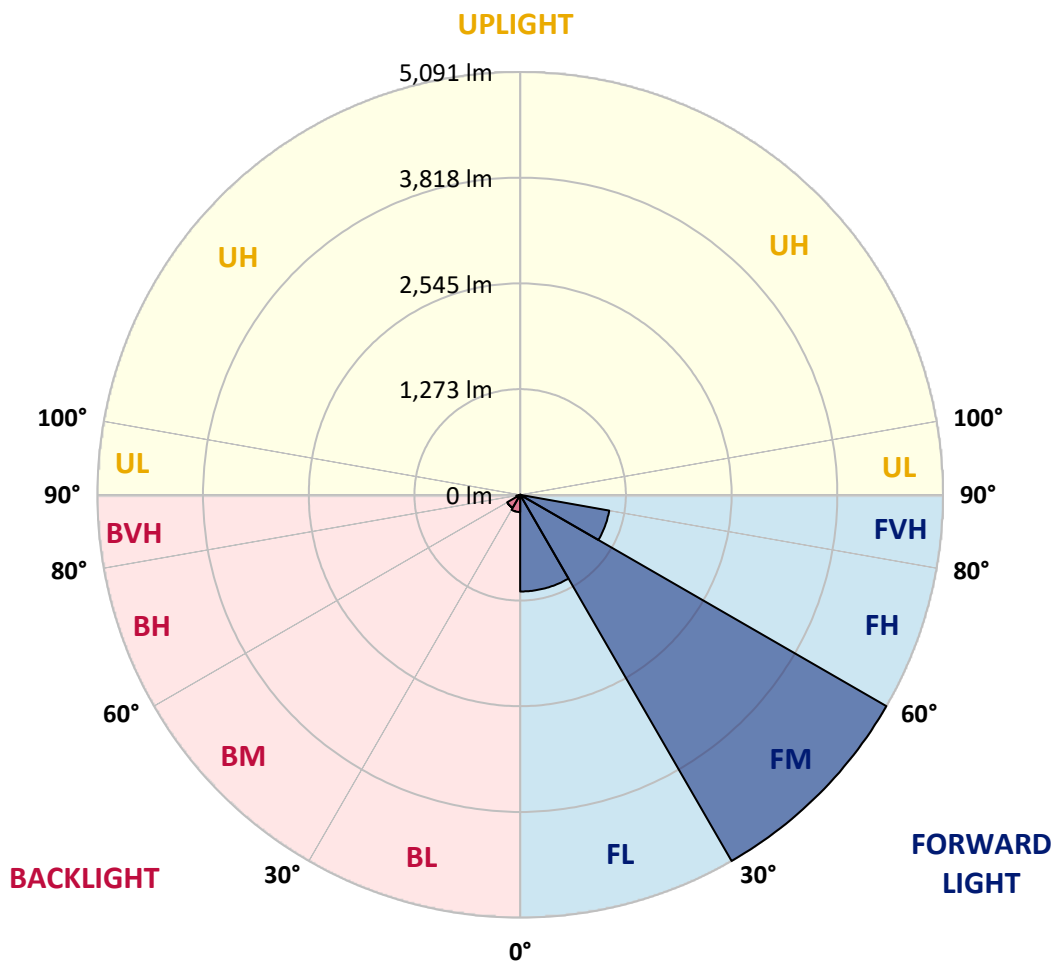
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1164.1	14.9			
FM	(30°-60°)	5090.8	65.3			
FH	(60°-80°)	1088.7	14.0			G1/1800
FVH	(80°-90°)	11.4	0.1			G1/100
BL	(0°-30°)	207.7	2.7	B1/500		
BM	(30°-60°)	180.6	2.3	B0/220		
BH	(60°-80°)	46.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	55°	59°	65°	75°	85°
0°	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0
2.5°	2594.7	2567.1	2558.9	2553.4	2528.0	2496.3	2453.1	2432.8	2391.4	2324.8	2243.0
5°	2832.4	2827.3	2808.9	2798.7	2771.7	2726.7	2657.7	2624.6	2558.9	2446.7	2300.0
7.5°	2728.5	2760.2	2785.4	2827.8	2881.1	2879.3	2821.4	2786.8	2713.4	2565.3	2363.5
10°	2327.1	2352.9	2394.3	2490.3	2686.2	2859.1	2927.0	2902.3	2843.5	2674.2	2424.6
12.5°	2248.5	2245.9	2253.2	2281.3	2383.7	2630.1	2909.1	2959.3	2947.4	2774.0	2482.6
15°	2290.4	2287.2	2286.2	2295.9	2320.6	2424.6	2774.4	2918.4	3010.7	2866.4	2531.7
17.5°	2407.6	2393.8	2386.4	2378.7	2371.3	2397.0	2612.6	2803.9	3020.5	2947.4	2572.6
20°	2608.4	2585.5	2558.5	2514.3	2472.9	2460.0	2544.6	2686.2	2985.9	3008.9	2599.3
22.5°	2860.9	2831.5	2784.6	2704.1	2620.0	2571.3	2578.2	2649.0	2934.4	3076.0	2611.8
25°	3144.6	3106.9	3044.3	2932.6	2808.9	2722.5	2677.5	2702.3	2911.0	3154.7	2625.9
27.5°	3448.4	3406.6	3324.8	3172.6	3032.4	2915.6	2823.7	2820.4	2951.0	3257.7	2649.0
30°	3749.6	3743.1	3636.4	3475.5	3289.8	3147.8	3015.3	2998.4	3062.7	3400.1	2694.5
32.5°	4151.3	4103.1	3972.5	3807.0	3592.8	3422.2	3265.4	3225.9	3234.2	3566.1	2764.8
35°	4657.9	4605.1	4421.1	4192.8	3953.2	3751.9	3578.6	3524.7	3504.5	3837.8	2883.5
37.5°	4985.3	4984.4	4869.0	4636.4	4379.3	4157.4	3968.9	3905.9	3864.9	4166.0	3067.4
40°	4994.0	5015.6	5030.9	5028.5	4845.5	4641.0	4473.6	4395.9	4300.8	4604.6	3305.0
42.5°	4726.0	4781.6	4915.5	5142.5	5251.0	5169.7	5028.5	4952.1	4810.5	5074.0	3594.6
45°	4363.7	4402.4	4636.4	5054.8	5470.8	5693.7	5586.2	5449.7	5263.0	5563.6	3854.3
47.5°	4201.4	4208.3	4359.7	4818.9	5487.3	6123.1	6188.5	5966.3	5674.0	5958.1	4057.6
50°	3716.5	3728.9	3937.6	4410.1	5293.3	6325.9	6793.4	6582.9	6122.3	6261.9	4131.6
52.5°	2801.1	2818.6	3083.4	3738.6	4760.0	6239.5	7226.5	7175.5	6613.3	6410.5	4135.7
55°	1652.8	1675.7	1928.5	2516.6	3744.0	5689.5	7258.6	7446.2	7000.8	6498.3	4129.2
57.5°	771.9	788.0	932.7	1296.5	2328.6	4496.6	6774.1	7260.5	7214.5	6544.7	4174.8
60°	410.0	414.6	449.6	561.4	1052.2	2851.2	5828.4	6556.2	7019.6	6609.1	4230.4
62.5°	313.6	314.8	313.0	326.3	442.3	1265.7	4405.6	5389.9	6234.9	6560.8	4168.8
65°	271.7	274.0	261.1	258.0	283.6	451.5	2617.2	3842.0	4899.3	5909.4	3749.1
67.5°	243.6	244.5	228.9	215.6	220.1	244.0	1032.5	2103.2	3243.0	4331.6	2717.5
70°	224.3	223.4	206.4	185.3	179.3	166.8	328.3	771.0	1549.8	2196.5	1263.8
72.5°	198.7	199.1	190.7	163.3	148.9	116.8	152.2	224.8	462.5	598.5	296.1
75°	176.1	173.8	163.7	146.2	122.7	76.8	75.4	100.2	142.5	141.6	63.9
77.5°	127.4	125.0	128.3	119.9	94.3	49.6	37.7	48.3	57.9	56.0	17.9
80°	93.3	92.0	82.7	99.8	83.2	34.0	23.5	25.7	29.9	25.2	5.5
82.5°	63.9	63.5	58.4	55.1	47.3	20.6	14.7	16.1	19.3	14.2	2.7
85°	10.2	11.5	42.3	33.6	28.1	9.2	10.2	11.0	12.9	7.8	0.9
87.5°	0.0	0.0	19.7	17.5	5.5	3.8	6.0	6.4	6.4	4.2	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0
2.5°	2201.1	2155.2	2070.1	1982.4	1901.0	1804.0	1737.3	1687.2	1629.3	1613.6	1647.6
5°	2216.4	2129.5	1946.5	1747.4	1560.3	1352.9	1194.4	1068.9	955.4	916.6	951.6
7.5°	2240.3	2111.1	1812.7	1485.0	1159.5	835.9	614.1	468.5	375.7	348.0	362.7
10°	2264.2	2084.4	1657.8	1174.1	729.1	406.9	264.9	211.5	191.7	187.6	189.9
12.5°	2283.9	2048.5	1468.9	834.8	389.8	217.9	173.2	164.6	161.8	161.8	162.8
15°	2295.9	1994.3	1244.9	531.0	224.3	164.6	151.3	148.5	148.5	148.9	149.9
17.5°	2294.6	1925.3	999.9	321.3	167.8	145.8	137.8	135.6	135.2	136.0	136.6
20°	2277.5	1835.2	754.0	212.0	146.2	132.9	125.0	121.0	120.4	121.4	122.3
22.5°	2245.3	1724.0	539.3	163.3	131.9	120.4	110.8	107.1	107.1	108.0	108.9
25°	2206.3	1587.9	368.8	138.4	119.1	107.1	97.9	94.7	95.6	97.9	98.4
27.5°	2157.6	1434.8	250.5	118.6	103.5	93.8	86.9	84.5	86.9	90.1	91.0
30°	2115.7	1275.3	178.8	102.4	87.9	81.0	76.8	76.8	80.0	86.0	87.3
32.5°	2083.5	1120.8	137.8	90.5	76.3	70.4	68.1	70.4	75.4	81.4	82.7
35°	2079.3	993.5	116.8	81.0	68.1	62.1	61.1	65.2	70.4	75.0	75.8
37.5°	2111.1	875.8	105.3	73.1	60.6	55.1	54.3	59.3	64.4	69.9	71.2
40°	2171.3	783.4	97.0	65.8	54.7	48.7	46.9	50.6	57.5	64.8	66.6
42.5°	2249.4	707.0	87.9	58.4	48.7	40.4	38.1	42.3	49.6	57.5	59.8
45°	2324.0	641.4	77.7	50.1	40.9	31.2	30.4	35.8	39.6	47.3	49.1
47.5°	2364.8	583.5	69.0	40.9	31.6	25.2	25.2	26.7	30.4	39.6	41.4
50°	2351.0	537.0	59.8	30.4	22.1	19.3	19.3	18.9	24.4	31.6	33.1
52.5°	2323.5	510.4	51.5	23.5	15.2	13.7	12.4	13.7	17.1	20.2	20.6
55°	2319.3	505.7	43.2	18.9	10.6	9.2	6.9	6.9	6.9	6.4	5.5
57.5°	2351.5	513.1	36.3	15.2	7.8	6.0	3.8	0.0	0.0	0.0	0.0
60°	2384.6	520.8	31.2	10.6	5.5	3.2	0.4	0.0	0.0	0.0	0.0
62.5°	2329.4	503.3	26.2	6.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0
65°	2046.2	428.6	20.6	4.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1455.6	287.0	13.7	2.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	664.3	119.9	8.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	142.0	37.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.0	27.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	42.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.5	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)