

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: P322248

Luminaire Tested: **GAN-SA4C-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20793 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

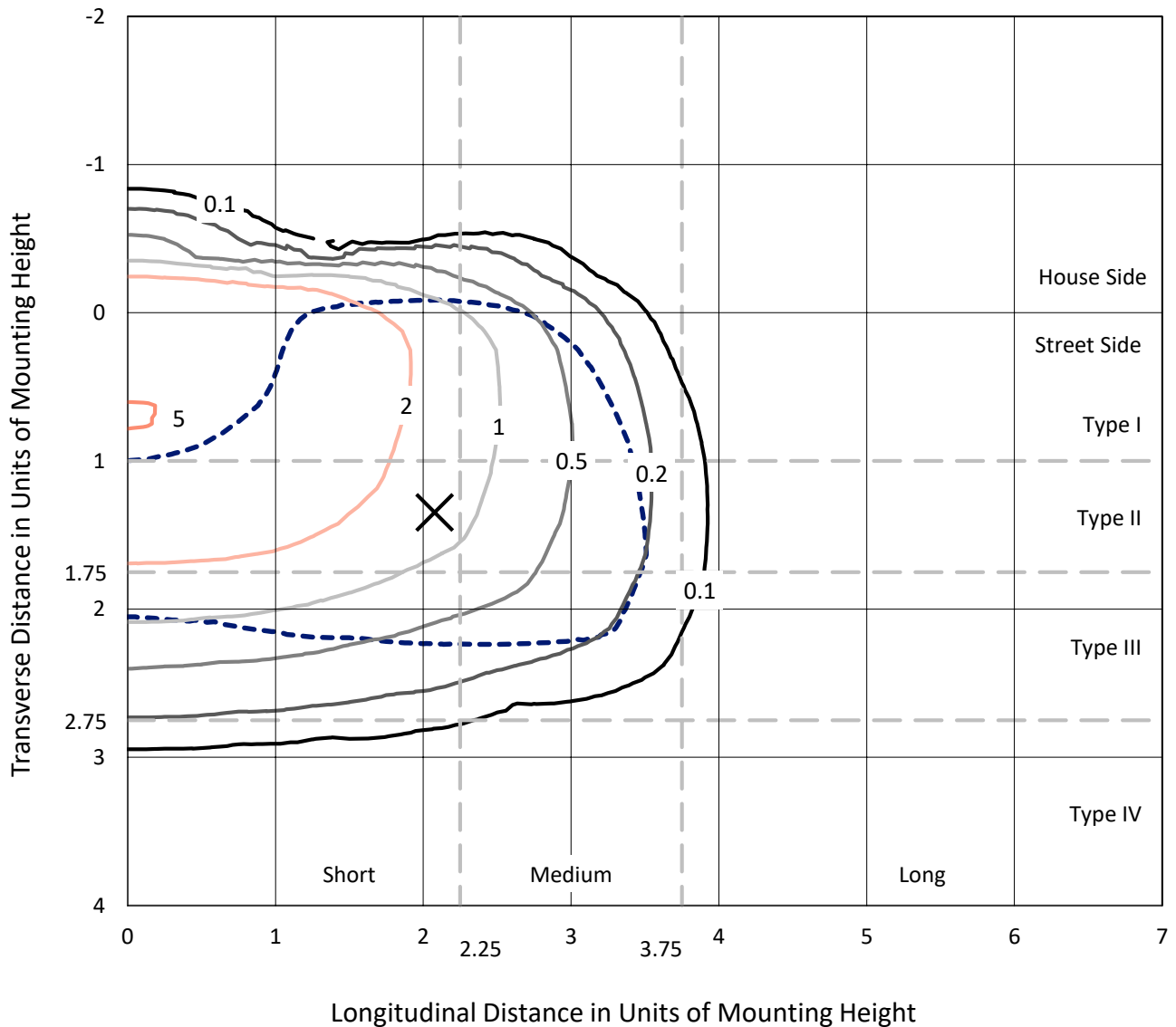
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

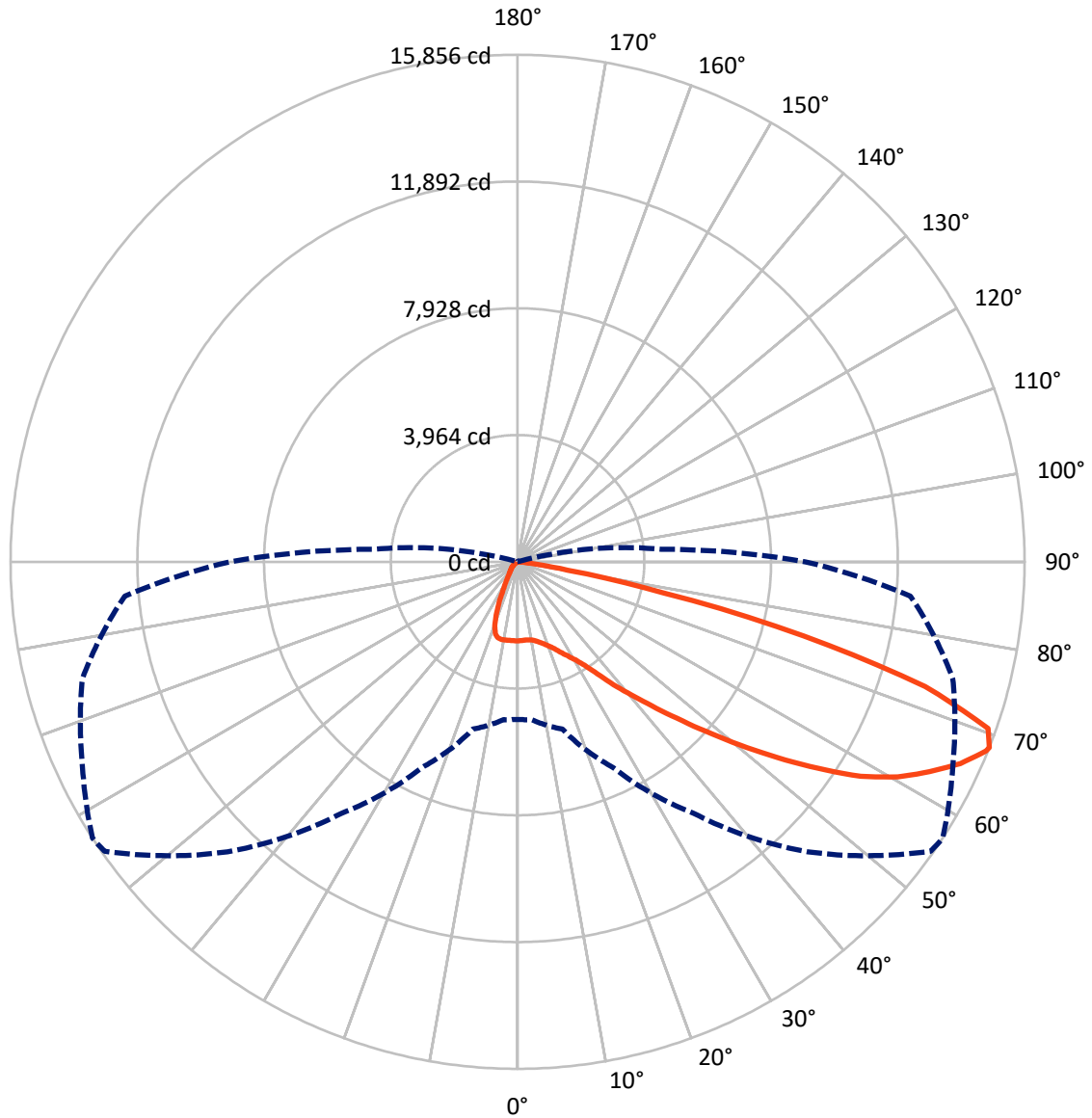
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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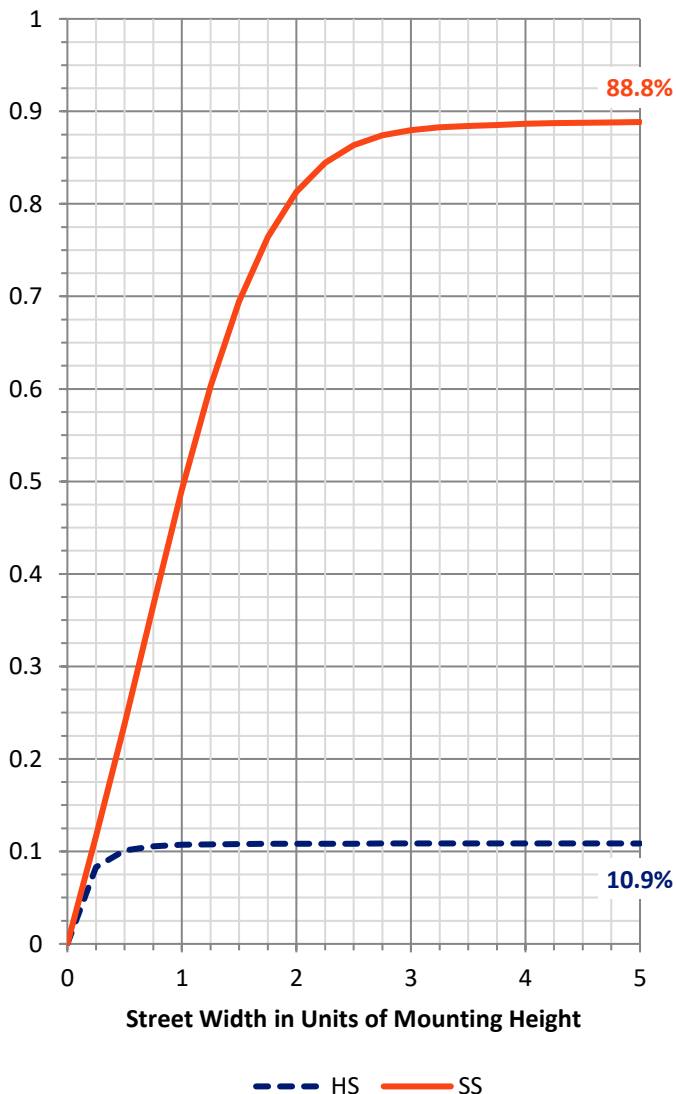
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2280.1	0.0	2280.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18512.9	0.0	18512.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	20793.0	0.0	20793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	1.1
10°-20°	640.7	3.1
20°-30°	1105.3	5.3
30°-40°	1907.8	9.2
40°-50°	3263.3	15.7
50°-60°	5221.0	25.1
60°-70°	6032.2	29.0
70°-80°	2305.0	11.1
80°-90°	86.4	0.4
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°	20793.0	100.0
0°-180°	20793.0	100.0

Coefficient of Utilization



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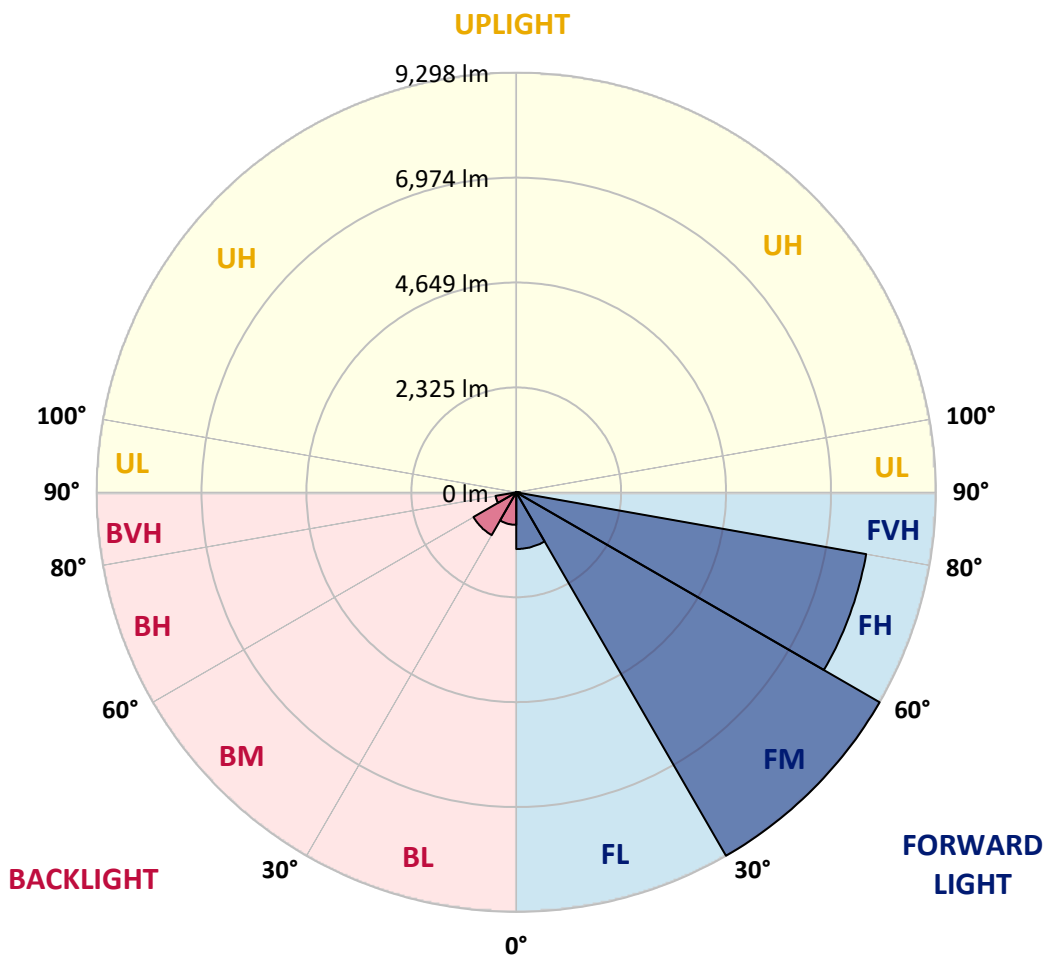
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1256.7	6.0			
FM (30°-60°)	9298.5	44.7			
FH (60°-80°)	7872.9	37.9			G4/12000
FVH (80°-90°)	84.8	0.4			G1/100
BL (0°-30°)	720.6	3.5	B2/1000		
BM (30°-60°)	1093.6	5.3	B2/2500		
BH (60°-80°)	464.3	2.2	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8
2.5°	2412.7	2423.6	2431.4	2436.3	2442.2	2455.0	2459.0	2464.9	2467.8	2467.8	2474.7
5°	2317.4	2329.2	2345.9	2359.7	2387.2	2422.6	2448.1	2458.0	2475.7	2491.4	2500.3
7.5°	2228.9	2242.7	2262.3	2294.8	2342.0	2399.0	2452.1	2465.8	2500.3	2533.7	2550.4
10°	2171.9	2182.7	2208.2	2254.5	2316.4	2396.0	2470.8	2487.5	2546.5	2602.5	2634.0
12.5°	2152.2	2162.0	2188.6	2240.7	2317.4	2410.8	2514.0	2538.6	2625.1	2706.7	2751.0
15°	2180.7	2182.7	2211.2	2260.4	2336.1	2447.2	2585.8	2615.3	2724.4	2830.6	2885.7
17.5°	2290.8	2282.0	2296.7	2318.4	2378.3	2495.3	2661.5	2705.7	2851.3	2976.1	3028.2
20°	2566.1	2566.1	2532.7	2473.7	2474.7	2570.1	2763.7	2813.9	2991.8	3136.4	3183.6
22.5°	3037.1	3028.2	2961.4	2816.8	2684.1	2698.9	2888.6	2953.5	3161.0	3315.3	3331.0
25°	3603.4	3592.6	3489.3	3285.8	3055.8	2907.3	3057.7	3132.4	3362.5	3499.2	3466.7
27.5°	4203.1	4194.3	4092.0	3839.4	3512.0	3239.6	3259.3	3330.1	3568.0	3702.7	3599.5
30°	4784.2	4787.2	4685.9	4426.3	4055.7	3663.4	3514.9	3556.2	3767.6	3904.2	3756.8
32.5°	5336.8	5340.7	5253.2	4963.1	4617.1	4155.9	3868.9	3858.0	3999.6	4134.3	3965.2
35°	5829.3	5839.2	5779.2	5554.0	5187.3	4704.6	4328.0	4302.4	4329.0	4481.4	4284.7
37.5°	6304.2	6310.1	6264.9	6075.1	5768.4	5307.3	4908.1	4871.7	4814.7	4931.7	4706.5
40°	6824.3	6809.6	6757.5	6585.4	6321.9	5972.9	5531.4	5468.5	5369.2	5473.4	5261.0
42.5°	7308.1	7291.3	7300.2	7105.5	6883.3	6657.2	6258.0	6149.9	6091.8	6211.8	5941.4
45°	7912.7	7903.9	7933.4	7764.3	7584.3	7420.1	7090.8	6972.8	6947.2	7087.8	6764.3
47.5°	8509.5	8531.1	8622.6	8550.8	8478.0	8333.5	7972.7	7919.6	7935.3	8105.4	7632.5
50°	9007.0	9032.6	9283.3	9365.9	9471.1	9386.5	9024.7	8992.3	9054.2	9207.6	8566.5
52.5°	9366.9	9419.0	9730.6	10111.1	10494.6	10551.6	10190.8	10161.3	10244.8	10268.4	9288.2
55°	9616.6	9662.8	10015.8	10711.9	11492.5	11738.3	11514.1	11400.1	11384.4	11151.3	10047.2
57.5°	9660.8	9655.9	10163.2	11100.2	12275.1	12909.3	12767.7	12655.6	12333.1	11967.4	10917.3
60°	9411.1	9439.6	10028.5	11234.9	12766.7	13795.1	13806.0	13660.4	13158.0	12760.8	11760.9
62.5°	8642.2	8758.3	9353.1	10881.9	12760.8	14152.0	14566.9	14455.8	13855.1	13410.7	12616.3
65°	7395.6	7436.8	8004.2	9672.6	11898.6	14002.6	15252.2	15210.9	14483.4	14041.9	13055.8
67.5°	5400.7	5311.2	5907.0	7616.8	10073.8	13131.5	15743.8	15795.9	14968.1	14171.7	12587.8
68°	4928.7	4955.3	5419.3	7108.5	9595.9	12823.7	15776.3	15855.9	15016.3	14087.1	12332.2
70°	2937.8	2988.9	3402.8	4894.3	7300.2	11082.5	15426.3	15608.1	14729.2	13215.1	10666.6
72.5°	750.2	811.1	1202.4	2190.5	4169.7	7808.5	13022.4	13330.1	12788.4	10720.7	7200.9
75°	308.7	324.5	429.7	721.7	1553.4	3517.9	8583.2	9242.0	8865.4	6418.3	3254.4
77.5°	213.4	224.2	276.3	400.2	672.5	1192.6	4208.1	4683.9	4219.9	2190.5	709.9
80°	153.4	162.2	197.6	266.4	386.4	425.7	1371.6	1585.9	1259.5	480.8	176.0
82.5°	91.4	98.3	147.5	189.8	235.0	203.5	341.2	387.4	364.8	238.9	78.7
85°	45.2	53.1	99.3	135.7	126.8	85.5	104.2	116.0	143.5	145.5	42.3
87.5°	2.9	5.9	58.0	81.6	35.4	19.7	30.5	37.4	51.1	71.8	17.7
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°	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8
2.5°	2477.6	2478.6	2471.7	2468.8	2470.8	2459.0	2454.0	2456.0	2456.0	2459.0	2454.0
5°	2502.2	2502.2	2490.4	2474.7	2465.8	2443.2	2428.5	2424.5	2421.6	2419.6	2415.7
7.5°	2555.3	2549.4	2528.8	2494.4	2464.9	2415.7	2378.3	2358.7	2348.8	2344.9	2342.0
10°	2640.8	2630.0	2595.6	2531.7	2463.9	2376.4	2294.8	2236.8	2188.6	2168.9	2157.1
12.5°	2755.9	2740.2	2682.1	2576.0	2457.0	2295.7	2118.8	1948.7	1790.4	1725.5	1693.1
15°	2888.6	2866.0	2774.6	2613.3	2416.7	2113.9	1729.4	1431.5	1212.3	1129.7	1094.3
17.5°	3023.3	2993.8	2855.2	2636.9	2295.7	1737.3	1213.3	916.3	769.8	730.5	716.7
20°	3159.0	3115.7	2925.0	2619.2	2022.4	1252.6	800.3	669.6	627.3	615.5	611.5
22.5°	3287.8	3220.9	2987.9	2550.4	1601.6	840.6	633.2	591.9	578.1	571.2	569.3
25°	3399.9	3306.5	3043.0	2338.0	1133.6	635.1	570.3	556.5	538.8	526.0	527.0
27.5°	3505.1	3392.0	3076.4	1988.0	756.1	542.7	528.0	509.3	476.8	458.2	458.2
30°	3631.9	3506.1	3101.0	1529.8	556.5	479.8	468.0	439.5	395.2	370.7	370.7
32.5°	3822.6	3679.1	3085.3	1073.6	461.1	421.8	394.3	354.9	306.8	283.2	282.2
35°	4114.7	3946.5	2973.2	704.0	407.0	366.7	322.5	274.3	232.0	212.4	211.4
37.5°	4507.9	4304.4	2721.5	503.4	364.8	315.6	262.5	209.4	178.0	165.2	164.2
40°	5018.2	4720.3	2361.6	408.0	325.4	266.4	202.5	162.2	140.6	130.8	131.7
42.5°	5630.7	5165.7	1930.0	352.0	287.1	219.3	158.3	127.8	114.1	107.2	105.2
45°	6311.1	5605.2	1477.7	313.6	248.7	177.0	123.9	101.3	90.5	86.5	86.5
47.5°	7059.3	6032.9	1081.5	280.2	207.5	136.7	99.3	82.6	73.7	70.8	69.8
50°	7738.7	6329.8	779.7	244.8	170.1	108.2	80.6	68.8	62.9	59.0	59.0
52.5°	8305.0	6423.2	574.2	206.5	137.6	86.5	66.9	59.0	53.1	50.1	50.1
55°	8803.5	6384.8	426.7	170.1	111.1	70.8	57.0	50.1	45.2	42.3	42.3
57.5°	9281.3	6261.0	318.6	138.6	89.5	57.0	48.2	42.3	37.4	35.4	35.4
60°	9671.6	6054.5	236.9	112.1	71.8	46.2	40.3	34.4	30.5	27.5	27.5
62.5°	9988.2	5826.4	174.0	92.4	57.0	36.4	31.5	28.5	22.6	19.7	19.7
65°	9990.2	5447.9	130.8	76.7	44.2	28.5	23.6	22.6	14.7	11.8	10.8
67.5°	9267.5	4696.7	100.3	65.9	34.4	21.6	17.7	18.7	7.9	4.9	3.9
68°	9005.0	4506.0	94.4	64.9	32.4	20.6	16.7	18.7	6.9	3.9	2.9
70°	7592.2	3584.7	75.7	62.9	28.5	15.7	13.8	18.7	5.9	2.9	2.0
72.5°	4856.0	2080.4	56.0	50.1	21.6	11.8	8.8	16.7	5.9	2.0	1.0
75°	2066.7	645.0	38.3	35.4	12.8	8.8	5.9	10.8	3.9	1.0	0.0
77.5°	435.6	145.5	22.6	21.6	8.8	5.9	3.9	2.9	1.0	0.0	0.0
80°	112.1	42.3	11.8	10.8	4.9	2.9	2.0	0.0	0.0	0.0	0.0
82.5°	35.4	16.7	6.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	2.9	1.0	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)