

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: P322568

Luminaire Tested: **GAN-SA4C-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20262 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

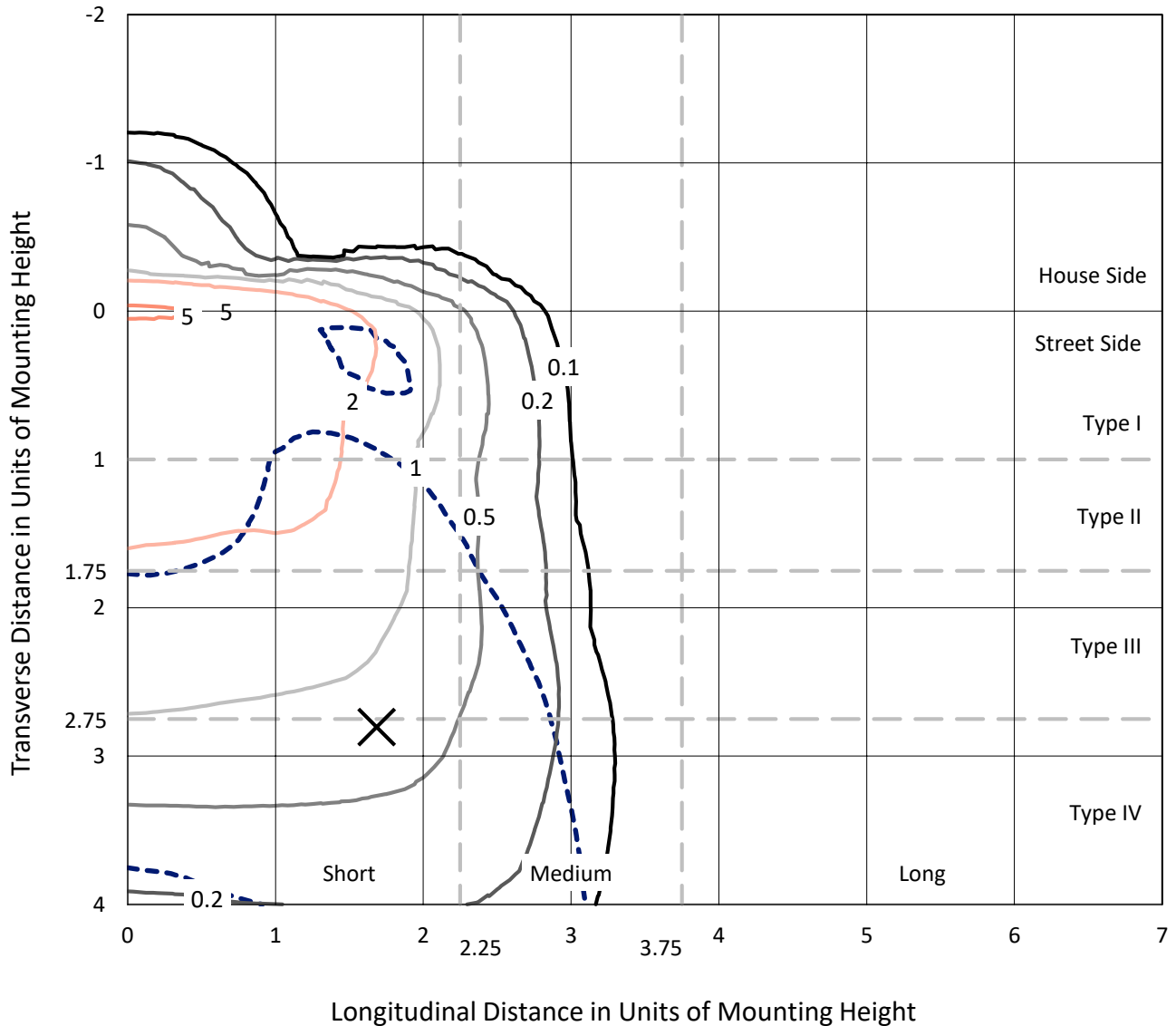
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

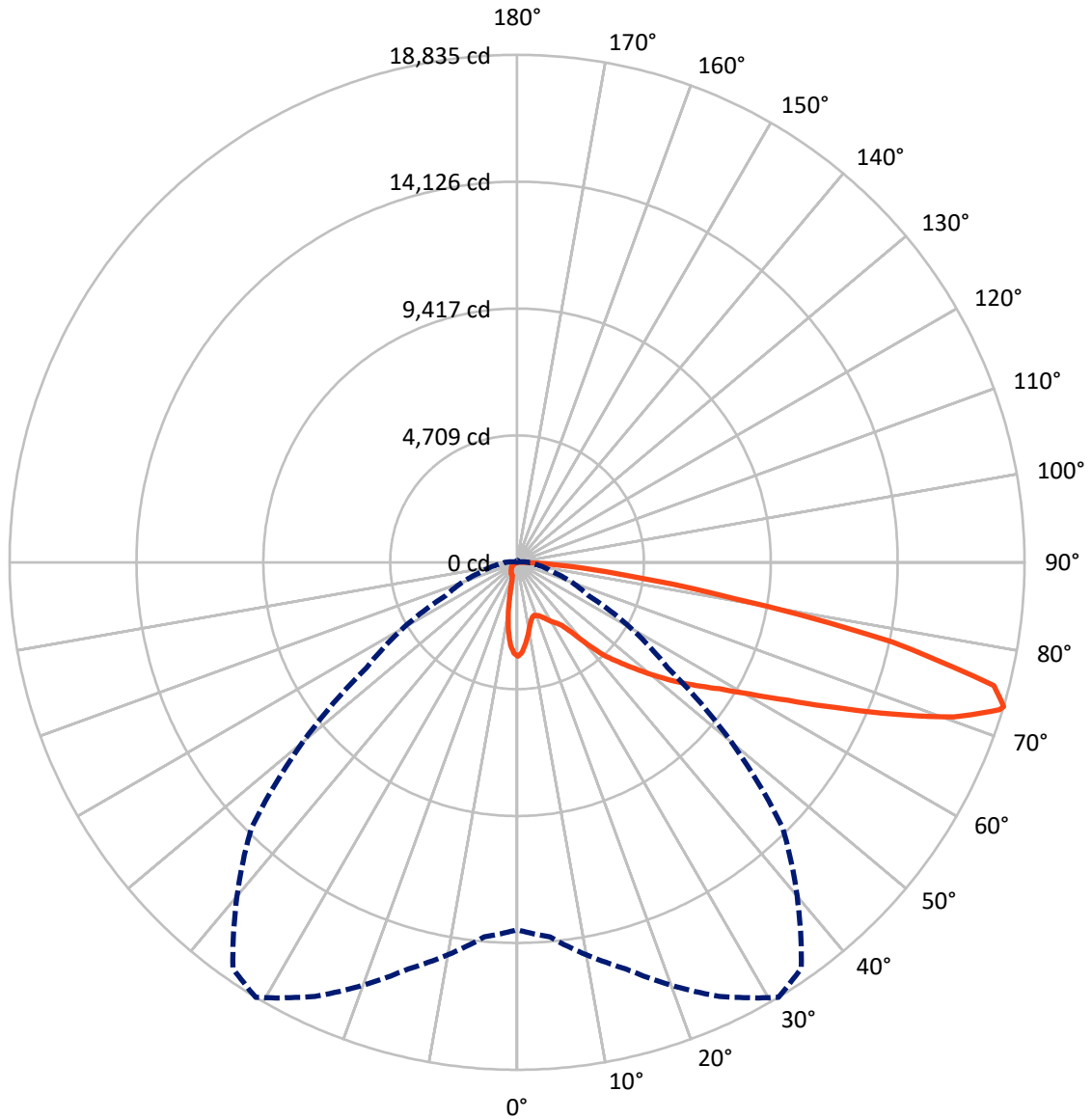
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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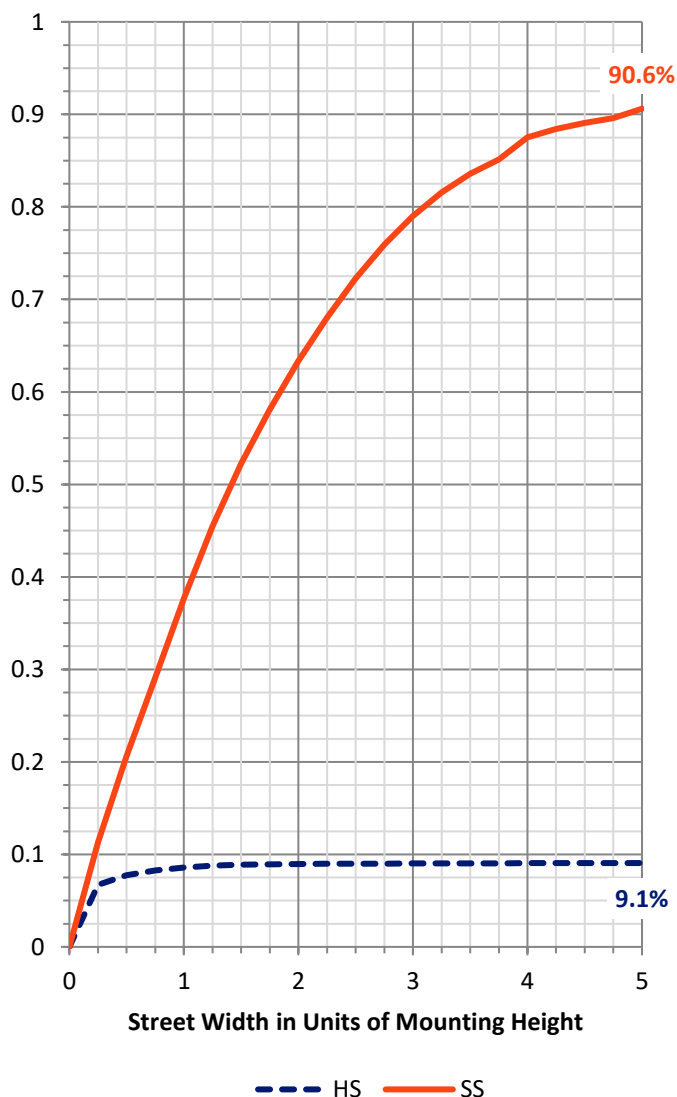
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1847.0	0.0	1847.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	18415.0	0.0	18415.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	20262.0	0.0	20262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.0	1.4
10°-20°	627.6	3.1
20°-30°	940.3	4.6
30°-40°	1496.1	7.4
40°-50°	2671.6	13.2
50°-60°	4145.5	20.5
60°-70°	5510.9	27.2
70°-80°	4145.3	20.5
80°-90°	435.6	2.1
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°	20262.0	100.0
0°-180°	20262.0	100.0

Coefficient of Utilization

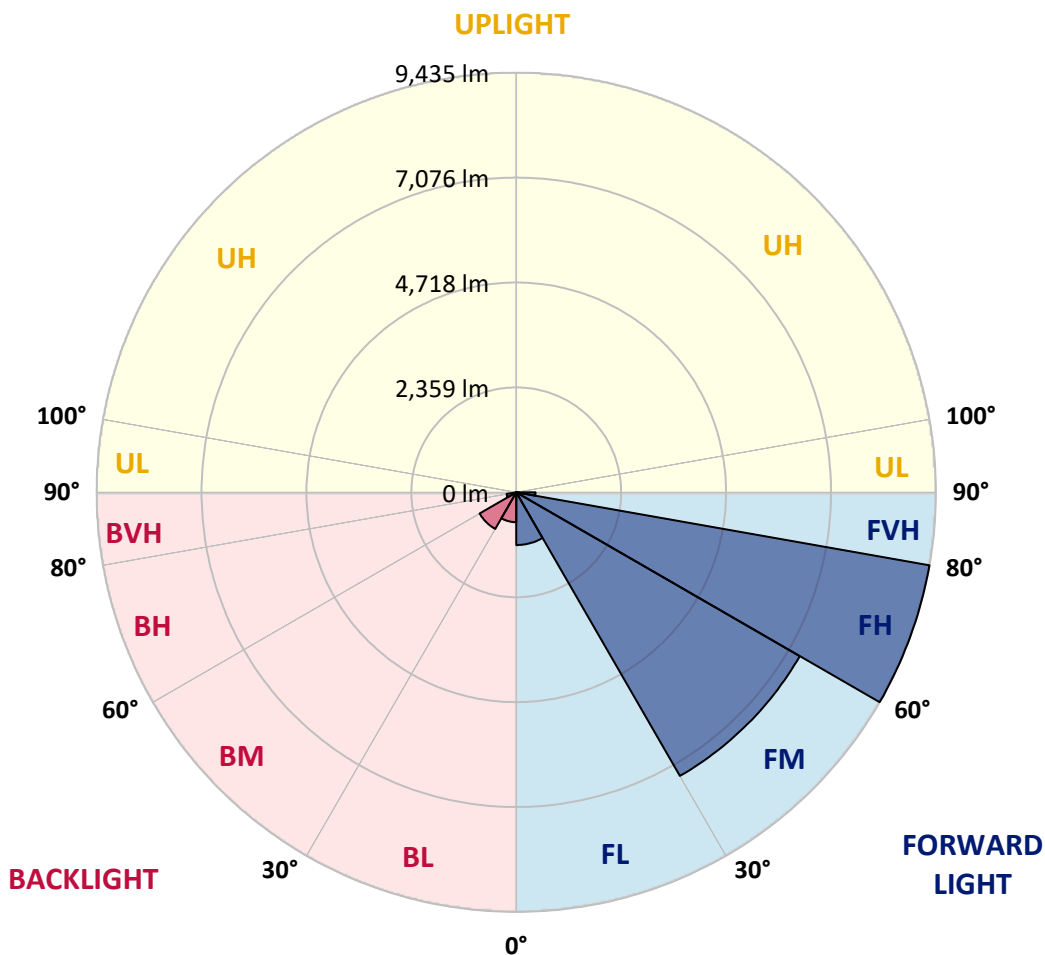


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.4	5.9			
FM (30°-60°)	7362.5	36.3			
FH (60°-80°)	9435.3	46.6			G4/12000
FVH (80°-90°)	431.9	2.1			G3/500
BL (0°-30°)	671.6	3.3	B2/1000		
BM (30°-60°)	950.7	4.7	B1/1000		
BH (60°-80°)	221.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1
2.5°	3303.7	3317.6	3332.4	3335.4	3360.2	3361.2	3396.9	3423.7	3450.4	3476.2	3485.1
5°	2964.6	2987.4	3014.2	3040.9	3093.5	3114.3	3201.6	3290.8	3376.1	3457.4	3497.0
7.5°	2602.7	2628.5	2666.1	2732.6	2791.1	2831.7	2969.5	3128.2	3286.8	3436.5	3522.8
10°	2272.5	2296.3	2336.0	2406.4	2496.6	2552.1	2737.5	2957.6	3190.7	3417.7	3561.5
12.5°	2062.3	2075.2	2097.0	2172.4	2253.7	2316.1	2534.3	2806.9	3111.3	3416.7	3623.9
15°	2023.7	2027.6	2009.8	2043.5	2106.9	2167.4	2388.5	2685.0	3050.8	3432.6	3705.2
17.5°	2085.1	2083.1	2023.7	2019.7	2070.3	2119.8	2317.1	2600.7	3008.2	3469.3	3810.3
20°	2178.3	2171.4	2068.3	2049.4	2103.0	2149.6	2312.2	2569.0	2992.4	3530.7	3938.2
22.5°	2302.3	2290.4	2128.8	2108.9	2166.4	2215.0	2373.7	2599.7	3006.2	3613.0	4087.0
25°	2455.9	2438.1	2232.9	2211.0	2269.5	2318.1	2483.7	2688.0	3047.9	3713.2	4275.4
27.5°	2629.5	2603.7	2399.4	2342.9	2409.3	2459.9	2630.5	2822.8	3113.3	3819.3	4506.4
30°	2793.1	2759.3	2574.9	2481.7	2563.0	2619.5	2789.1	2983.4	3218.4	3982.9	4822.7
32.5°	2957.6	2920.0	2731.6	2620.5	2693.9	2755.4	2952.7	3204.5	3415.7	4232.7	5243.1
35°	3336.4	3296.7	3065.7	2882.3	2881.3	2916.0	3181.7	3506.9	3676.5	4580.7	5744.8
37.5°	3973.9	3951.1	3731.0	3383.0	3289.8	3251.1	3494.1	3867.8	4051.3	5059.6	6310.9
40°	4672.0	4652.1	4405.2	4089.9	3948.2	3853.0	3942.2	4370.5	4580.7	5644.6	6889.0
42.5°	5460.2	5366.0	4925.8	4831.6	4704.7	4632.3	4552.0	4990.2	5231.2	6281.2	7462.0
45°	6176.1	6017.4	5446.3	5303.5	5274.8	5292.6	5337.3	5823.1	5962.9	7037.7	8033.1
47.5°	6602.4	6477.5	6039.2	5902.4	5894.5	6012.5	6349.6	6764.0	6691.6	7697.0	8535.8
50°	7007.9	6894.9	6531.0	6564.7	6601.4	6762.0	7498.7	7731.7	7356.9	8294.9	8996.9
52.5°	7336.1	7163.6	6973.2	7162.6	7343.1	7601.8	8684.6	8600.3	7828.9	8770.8	9391.5
55°	7525.5	7447.2	7539.4	7729.7	8068.8	8489.2	9804.0	9323.1	8173.9	9205.1	9654.2
57.5°	8219.5	8065.9	8249.3	8413.9	8856.1	9444.1	10762.7	9861.5	8422.8	9473.8	9714.7
60°	9059.3	8935.4	9043.5	9317.1	9914.0	10605.1	11659.1	10300.7	8552.7	9646.3	9558.1
62.5°	10395.9	10232.3	10164.9	10471.2	11262.5	12017.0	12339.2	10605.1	8523.9	9570.0	9020.7
65°	12186.5	12017.0	11715.6	11993.2	12999.6	13532.0	13099.7	10669.5	8325.6	8952.3	7662.3
67.5°	14020.8	13897.9	13640.1	14108.1	15016.3	15187.8	13903.8	10512.9	7687.1	7258.8	5413.6
70°	15232.4	15179.9	15347.4	16382.6	17192.6	17143.1	14641.5	9671.1	5991.6	4463.7	2678.0
72.5°	14358.9	14610.8	15848.2	17725.1	18714.6	18310.1	14262.7	7426.3	3424.6	1717.3	774.4
73°	13635.1	13957.4	15623.1	17775.6	18834.6	18391.4	13944.5	6816.6	2919.0	1355.4	587.0
75°	9485.7	9881.3	12934.1	16555.1	18273.4	17522.8	11623.4	4172.2	1352.4	600.8	237.0
77.5°	4605.5	4898.0	7122.0	11961.5	14211.2	13690.7	7236.0	1554.7	610.8	375.8	109.1
80°	1719.3	1911.6	3091.5	6087.8	8212.6	8427.8	3182.7	588.0	406.5	302.4	55.5
82.5°	450.1	501.7	1140.2	2714.7	4208.9	4405.2	1003.4	296.5	297.5	248.9	33.7
85°	143.8	164.6	355.9	1218.6	1983.0	1741.1	261.8	143.8	216.1	185.4	18.8
87.5°	17.8	22.8	113.0	286.5	437.3	242.9	40.7	42.6	92.2	103.1	10.9
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°	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1	3486.1
2.5°	3494.1	3489.1	3490.1	3464.3	3447.5	3413.7	3379.0	3363.2	3346.3	3339.4	3346.3
5°	3511.9	3503.0	3477.2	3397.9	3313.6	3204.5	3102.4	3025.1	2927.9	2901.1	2928.9
7.5°	3539.7	3521.8	3446.5	3284.8	3097.5	2889.2	2655.2	2484.7	2344.9	2254.7	2287.4
10°	3580.3	3546.6	3394.9	3120.3	2785.1	2416.3	2084.1	1825.4	1641.9	1566.6	1563.6
12.5°	3648.7	3585.3	3331.4	2906.1	2403.4	1911.6	1476.3	1195.8	1047.0	950.8	948.9
15°	3724.1	3630.9	3251.1	2649.3	1959.2	1369.3	950.8	737.7	641.5	610.8	606.8
17.5°	3816.3	3683.4	3147.0	2333.0	1494.2	907.2	620.7	559.2	555.2	552.3	552.3
20°	3932.3	3745.9	3013.2	1971.1	1059.9	605.8	527.5	531.4	533.4	529.5	530.5
22.5°	4067.1	3809.3	2853.5	1582.4	716.9	506.7	504.7	509.6	511.6	509.6	510.6
25°	4223.8	3882.7	2659.2	1174.9	517.6	480.9	485.8	492.8	497.7	497.7	497.7
27.5°	4418.1	3972.0	2425.2	820.0	447.2	454.1	468.0	480.9	487.8	489.8	489.8
30°	4671.0	4083.0	2144.6	562.2	406.5	418.4	444.2	469.0	481.9	483.9	484.8
32.5°	4990.2	4207.9	1819.4	415.4	371.8	380.7	408.5	450.1	474.9	478.9	478.9
35°	5356.1	4352.7	1469.4	361.9	347.0	350.0	371.8	419.4	463.0	473.9	474.9
37.5°	5756.7	4495.5	1117.4	338.1	326.2	326.2	342.1	382.7	434.3	468.0	472.0
40°	6130.5	4581.7	783.3	319.3	307.4	307.4	321.2	351.0	399.6	450.1	461.0
42.5°	6475.5	4611.5	545.3	301.4	289.5	292.5	304.4	328.2	364.9	415.4	425.4
45°	6830.5	4606.5	397.6	280.6	271.7	280.6	289.5	307.4	334.1	362.9	364.9
47.5°	7098.2	4564.9	315.3	260.8	254.8	266.7	274.6	286.5	301.4	299.4	299.4
50°	7349.0	4463.7	253.8	234.0	238.0	251.8	255.8	259.8	260.8	241.9	239.9
52.5°	7539.4	4306.1	203.3	205.2	221.1	235.0	231.0	225.1	215.2	192.4	188.4
55°	7602.8	4002.7	159.6	169.5	196.3	214.2	199.3	186.4	167.6	148.7	144.8
57.5°	7487.8	3611.0	129.9	131.9	165.6	180.5	163.6	148.7	127.9	112.0	109.1
60°	7243.9	3175.8	107.1	99.2	127.9	140.8	129.9	115.0	96.2	84.3	83.3
62.5°	6760.1	2711.8	88.2	77.3	97.2	108.1	101.1	90.2	74.4	66.4	65.4
65°	5742.8	2169.4	71.4	62.5	75.4	84.3	78.3	70.4	58.5	52.5	51.6
67.5°	4008.6	1466.4	58.5	51.6	59.5	66.4	61.5	57.5	46.6	45.6	46.6
70°	1933.4	706.9	48.6	41.6	46.6	51.6	49.6	46.6	44.6	51.6	59.5
72.5°	554.2	237.0	38.7	34.7	37.7	40.7	42.6	41.6	48.6	62.5	72.4
73°	426.3	191.4	36.7	32.7	35.7	39.7	41.6	40.7	49.6	63.5	72.4
75°	182.4	92.2	27.8	26.8	29.7	34.7	36.7	36.7	49.6	64.4	69.4
77.5°	82.3	49.6	17.8	20.8	25.8	27.8	30.7	30.7	39.7	49.6	49.6
80°	46.6	26.8	13.9	15.9	18.8	18.8	18.8	16.9	17.8	19.8	21.8
82.5°	29.7	17.8	10.9	12.9	11.9	9.9	7.9	7.9	6.9	7.9	9.9
85°	16.9	9.9	9.9	7.9	5.0	4.0	5.0	4.0	1.0	0.0	1.0
87.5°	9.9	5.9	3.0	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)