

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: P322289

Luminaire Tested: **GAN-SA5C-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322289
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-SA5C-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 25760 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

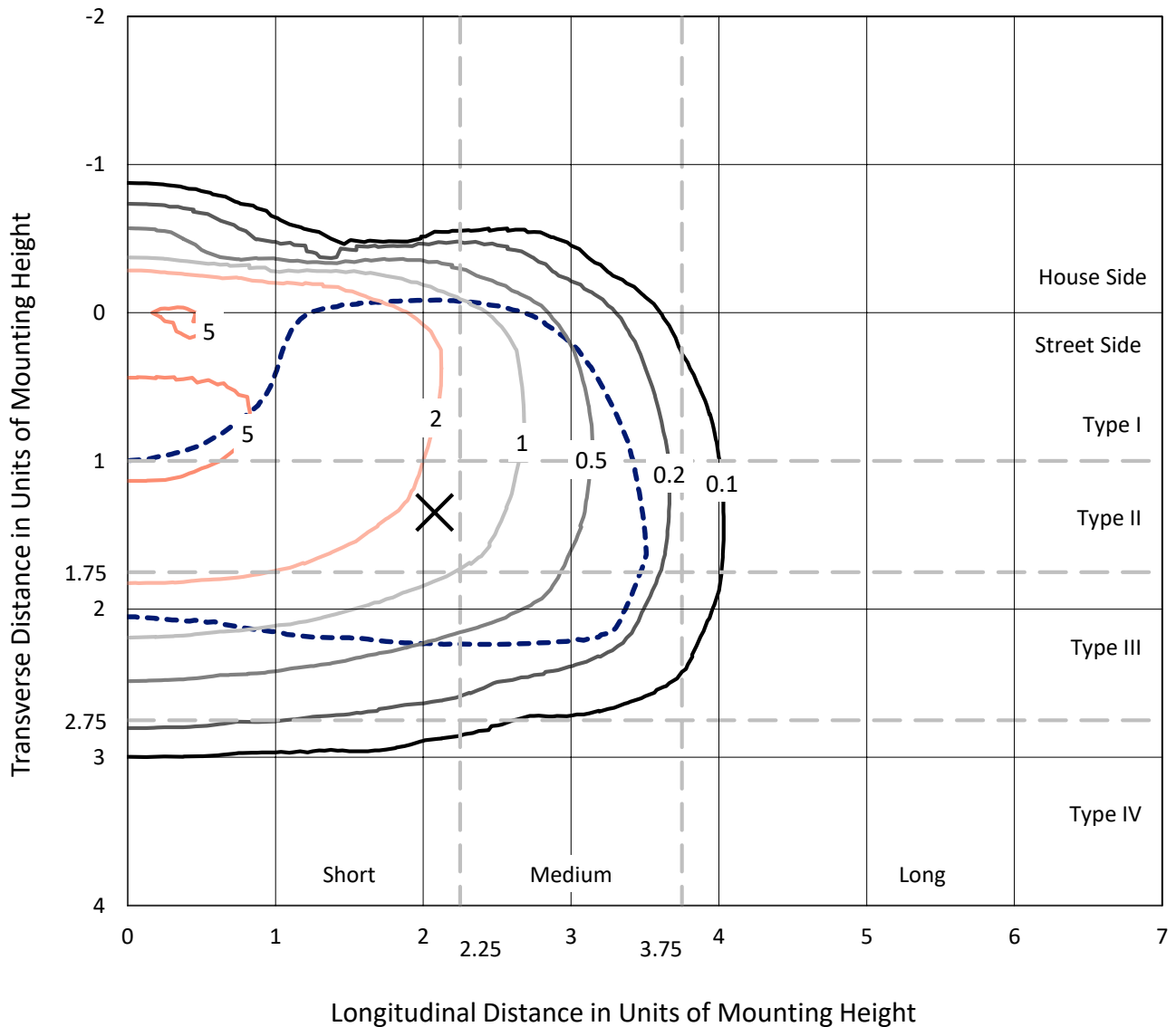
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

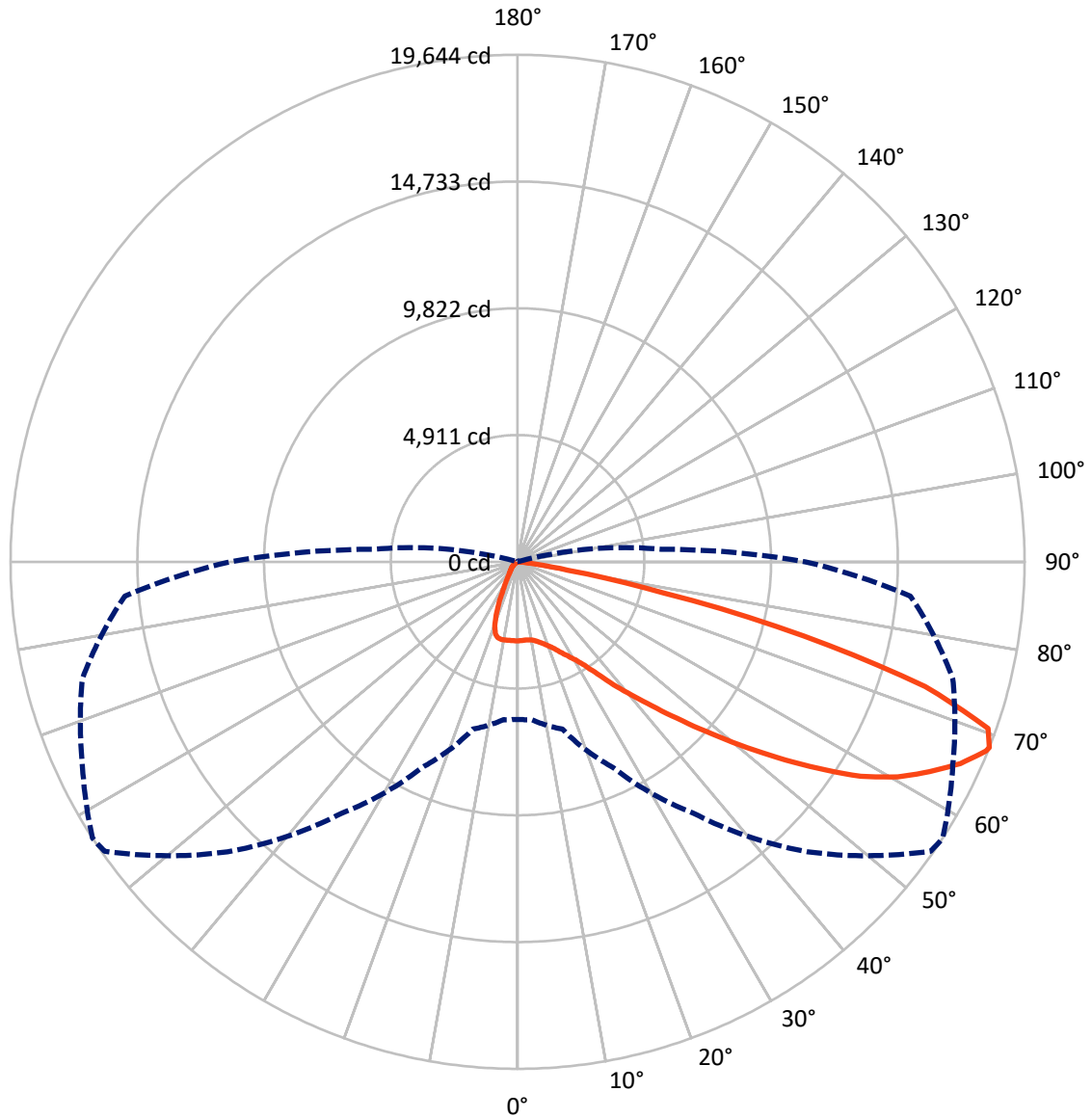
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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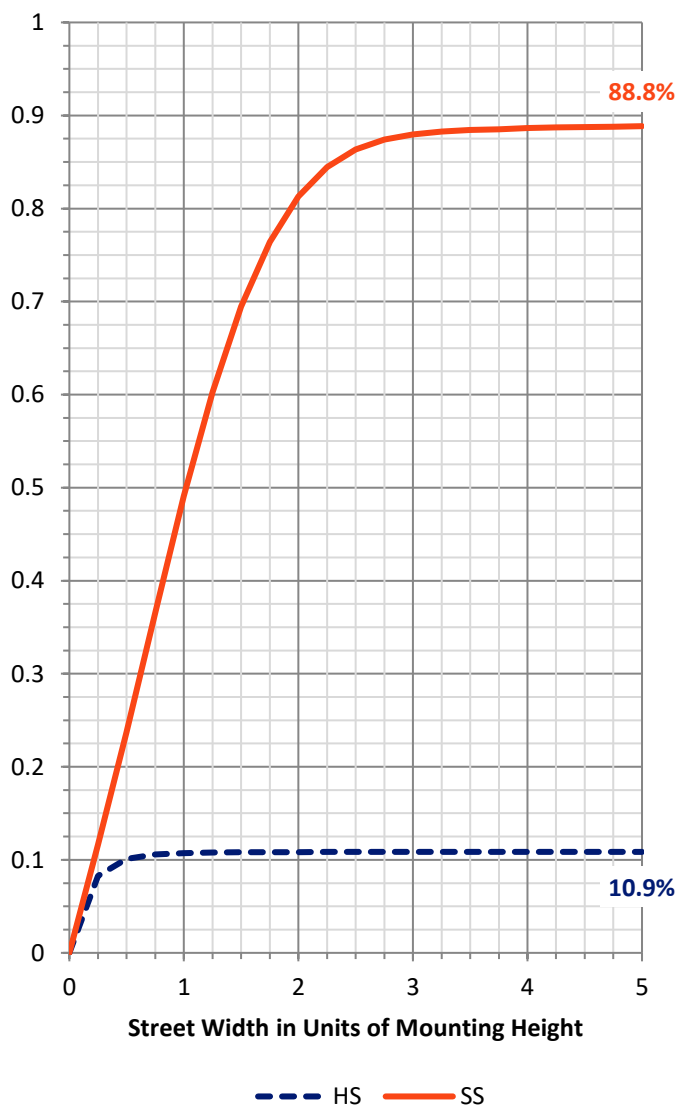
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2824.7	0.0	2824.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22935.3	0.0	22935.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	25760.0	0.0	25760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	1.1
10°-20°	793.8	3.1
20°-30°	1369.4	5.3
30°-40°	2363.5	9.2
40°-50°	4042.8	15.7
50°-60°	6468.1	25.1
60°-70°	7473.2	29.0
70°-80°	2855.6	11.1
80°-90°	107.0	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°	25760.0	100.0
0°-180°	25760.0	100.0

Coefficient of Utilization



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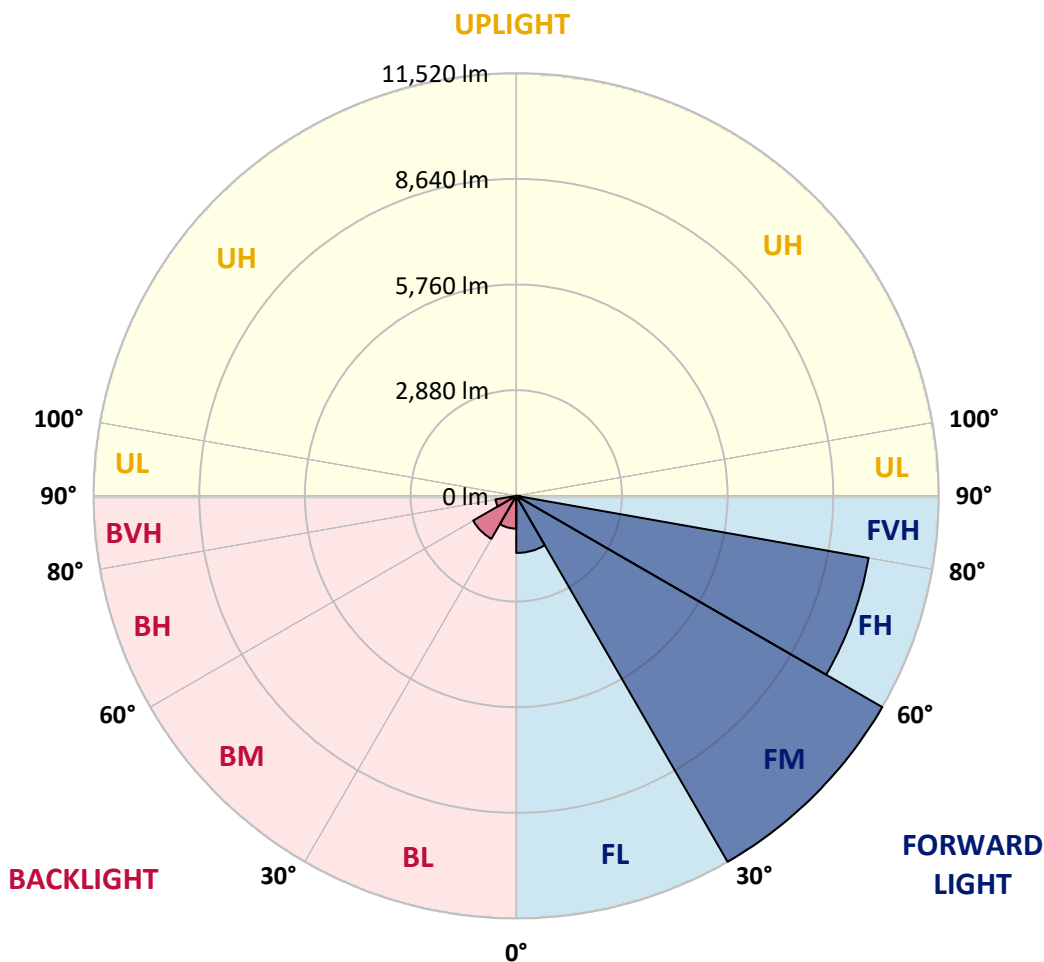
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1556.9	6.0			
FM	(30°-60°)	11519.7	44.7			
FH	(60°-80°)	9753.6	37.9			G4/12000
FVH	(80°-90°)	105.1	0.4			G2/225
BL	(0°-30°)	892.7	3.5	B2/1000		
BM	(30°-60°)	1354.8	5.3	B2/2500		
BH	(60°-80°)	575.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.0	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°	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0
2.5°	2989.1	3002.5	3012.2	3018.3	3025.6	3041.5	3046.4	3053.7	3057.3	3057.3	3065.8
5°	2871.0	2885.6	2906.3	2923.3	2957.4	3001.3	3033.0	3045.1	3067.1	3086.5	3097.5
7.5°	2761.3	2778.4	2802.7	2842.9	2901.4	2972.0	3037.8	3054.9	3097.5	3138.9	3159.6
10°	2690.7	2704.1	2735.7	2793.0	2869.7	2968.4	3061.0	3081.7	3154.8	3224.2	3263.2
12.5°	2666.3	2678.5	2711.4	2775.9	2871.0	2986.7	3114.6	3145.0	3252.2	3353.3	3408.1
15°	2701.6	2704.1	2739.4	2800.3	2894.1	3031.7	3203.5	3240.0	3375.2	3506.8	3575.0
17.5°	2838.1	2827.1	2845.4	2872.2	2946.5	3091.4	3297.3	3352.1	3532.4	3687.0	3751.6
20°	3179.1	3179.1	3137.7	3064.6	3065.8	3184.0	3423.9	3486.1	3706.5	3885.6	3944.1
22.5°	3762.6	3751.6	3668.8	3489.7	3325.3	3343.6	3578.6	3659.0	3916.0	4107.3	4126.8
25°	4464.2	4450.8	4322.9	4070.7	3785.7	3601.8	3788.1	3880.7	4165.7	4335.1	4294.9
27.5°	5207.2	5196.2	5069.5	4756.5	4350.9	4013.5	4037.8	4125.5	4420.3	4587.2	4459.3
30°	5927.0	5930.7	5805.2	5483.7	5024.5	4538.5	4354.5	4405.7	4667.6	4836.9	4654.2
32.5°	6611.6	6616.5	6508.1	6148.7	5720.0	5148.7	4793.0	4779.6	4955.0	5121.9	4912.4
35°	7221.8	7234.0	7159.7	6880.8	6426.4	5828.4	5361.9	5330.2	5363.1	5551.9	5308.3
37.5°	7810.2	7817.5	7761.4	7526.3	7146.3	6575.1	6080.5	6035.5	5964.8	6109.8	5830.8
40°	8454.5	8436.2	8371.7	8158.5	7832.1	7399.7	6852.8	6774.8	6651.8	6780.9	6517.8
42.5°	9053.8	9033.1	9044.0	8802.9	8527.6	8247.4	7752.9	7618.9	7547.1	7695.7	7360.7
45°	9802.9	9791.9	9828.5	9619.0	9396.1	9192.6	8784.6	8638.4	8606.8	8780.9	8380.2
47.5°	10542.2	10569.0	10682.3	10593.4	10503.3	10324.2	9877.2	9811.4	9830.9	10041.6	9455.7
50°	11158.6	11190.3	11500.9	11603.2	11733.5	11628.8	11180.5	11140.3	11217.0	11407.1	10612.9
52.5°	11604.4	11668.9	12055.1	12526.5	13001.5	13072.1	12625.1	12588.6	12692.1	12721.3	11506.9
55°	11913.8	11971.0	12408.3	13270.7	14237.8	14542.3	14264.6	14123.3	14103.8	13815.2	12447.3
57.5°	11968.6	11962.5	12591.0	13751.8	15207.4	15993.0	15817.6	15678.8	15279.3	14826.1	13525.3
60°	11659.2	11694.5	12424.1	13918.7	15816.4	17090.5	17103.9	16923.6	16301.2	15809.1	14570.3
62.5°	10706.7	10850.4	11587.3	13481.4	15809.1	17532.7	18046.7	17909.0	17164.8	16614.2	15630.1
65°	9162.2	9213.4	9916.2	11983.2	14740.9	17347.5	18895.7	18844.5	17943.1	17396.2	16174.5
67.5°	6690.8	6579.9	7318.1	9436.3	12480.2	16268.3	19504.7	19569.2	18543.6	17557.0	15594.7
68°	6106.1	6139.0	6713.9	8806.5	11888.2	15887.1	19544.9	19643.5	18603.3	17452.3	15278.0
70°	3639.5	3702.9	4215.7	6063.5	9044.0	13729.9	19111.3	19336.6	18247.7	16371.9	13214.7
72.5°	929.4	1004.9	1489.7	2713.8	5165.8	9673.8	16133.1	16514.4	15843.2	13281.6	8921.0
75°	382.5	402.0	532.3	894.1	1924.5	4358.2	10633.6	11449.7	10983.2	7951.4	4031.8
77.5°	264.3	277.7	342.3	495.7	833.1	1477.5	5213.3	5802.8	5227.9	2713.8	879.4
80°	190.0	201.0	244.8	330.1	478.7	527.4	1699.2	1964.7	1560.3	595.6	218.0
82.5°	113.3	121.8	182.7	235.1	291.1	252.1	422.7	479.9	451.9	296.0	97.4
85°	56.0	65.8	123.0	168.1	157.1	106.0	129.1	143.7	177.8	180.3	52.4
87.5°	3.7	7.3	71.9	101.1	43.8	24.4	37.8	46.3	63.3	88.9	21.9
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°	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0	3061.0
2.5°	3069.5	3070.7	3062.2	3058.5	3061.0	3046.4	3040.3	3042.7	3042.7	3046.4	3040.3
5°	3099.9	3099.9	3085.3	3065.8	3054.9	3026.9	3008.6	3003.7	3000.1	2997.6	2992.8
7.5°	3165.7	3158.4	3132.8	3090.2	3053.7	2992.8	2946.5	2922.1	2909.9	2905.1	2901.4
10°	3271.7	3258.3	3215.7	3136.5	3052.4	2944.0	2842.9	2771.1	2711.4	2687.0	2672.4
12.5°	3414.2	3394.7	3322.8	3191.3	3043.9	2844.2	2624.9	2414.2	2218.1	2137.7	2097.5
15°	3578.6	3550.6	3437.3	3237.6	2994.0	2618.8	2142.6	1773.5	1501.9	1399.5	1355.7
17.5°	3745.5	3709.0	3537.2	3266.8	2844.2	2152.3	1503.1	1135.2	953.7	905.0	888.0
20°	3913.6	3860.0	3623.7	3244.9	2505.5	1551.8	991.5	829.5	777.1	762.5	757.6
22.5°	4073.2	3990.3	3701.7	3159.6	1984.2	1041.4	784.4	733.3	716.2	707.7	705.3
25°	4212.0	4096.3	3769.9	2896.5	1404.4	786.9	706.5	689.4	667.5	651.7	652.9
27.5°	4342.4	4202.3	3811.3	2462.9	936.7	672.4	654.1	631.0	590.8	567.6	567.6
30°	4499.5	4343.6	3841.7	1895.3	689.4	594.4	579.8	544.5	489.7	459.2	459.2
32.5°	4735.8	4558.0	3822.3	1330.1	571.3	522.5	488.4	439.7	380.0	350.8	349.6
35°	5097.6	4889.3	3683.4	872.1	504.3	454.3	399.5	339.8	287.5	263.1	261.9
37.5°	5584.8	5332.6	3371.6	623.6	451.9	391.0	325.2	259.4	220.5	204.6	203.4
40°	6216.9	5847.9	2925.8	505.5	403.2	330.1	250.9	201.0	174.2	162.0	163.2
42.5°	6975.8	6399.7	2391.0	436.1	355.7	271.6	196.1	158.3	141.3	132.8	130.3
45°	7818.7	6944.1	1830.7	388.6	308.2	219.2	153.5	125.5	112.1	107.2	107.2
47.5°	8745.6	7474.0	1339.9	347.1	257.0	169.3	123.0	102.3	91.4	87.7	86.5
50°	9587.3	7841.8	965.9	303.3	210.7	134.0	99.9	85.3	78.0	73.1	73.1
52.5°	10288.9	7957.5	711.3	255.8	170.5	107.2	82.8	73.1	65.8	62.1	62.1
55°	10906.4	7910.0	528.6	210.7	137.6	87.7	70.6	62.1	56.0	52.4	52.4
57.5°	11498.4	7756.6	394.6	171.7	110.8	70.6	59.7	52.4	46.3	43.8	43.8
60°	11982.0	7500.8	293.6	138.9	88.9	57.2	49.9	42.6	37.8	34.1	34.1
62.5°	12374.2	7218.2	215.6	114.5	70.6	45.1	39.0	35.3	28.0	24.4	24.4
65°	12376.6	6749.2	162.0	95.0	54.8	35.3	29.2	28.0	18.3	14.6	13.4
67.5°	11481.4	5818.6	124.2	81.6	42.6	26.8	21.9	23.1	9.7	6.1	4.9
68°	11156.1	5582.3	116.9	80.4	40.2	25.6	20.7	23.1	8.5	4.9	3.7
70°	9405.8	4441.0	93.8	78.0	35.3	19.5	17.1	23.1	7.3	3.7	2.4
72.5°	6016.0	2577.4	69.4	62.1	26.8	14.6	11.0	20.7	7.3	2.4	1.2
75°	2560.3	799.0	47.5	43.8	15.8	11.0	7.3	13.4	4.9	1.2	0.0
77.5°	539.6	180.3	28.0	26.8	11.0	7.3	4.9	3.7	1.2	0.0	0.0
80°	138.9	52.4	14.6	13.4	6.1	3.7	2.4	0.0	0.0	0.0	0.0
82.5°	43.8	20.7	8.5	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	12.2	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	3.7	1.2	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)