

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: P322219

Luminaire Tested: **GAN-SA5D-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322219
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-SA5D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 25736 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

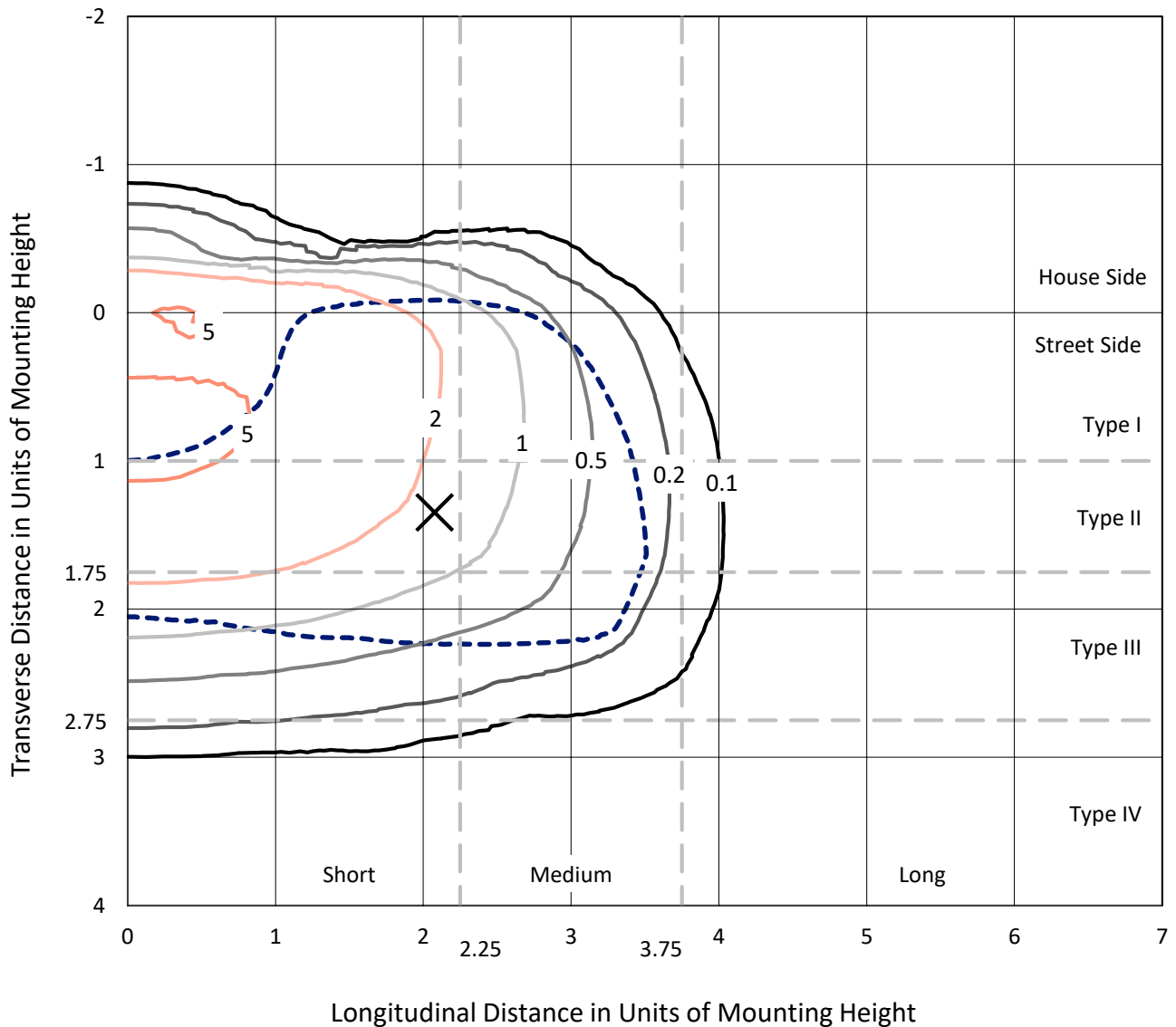
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

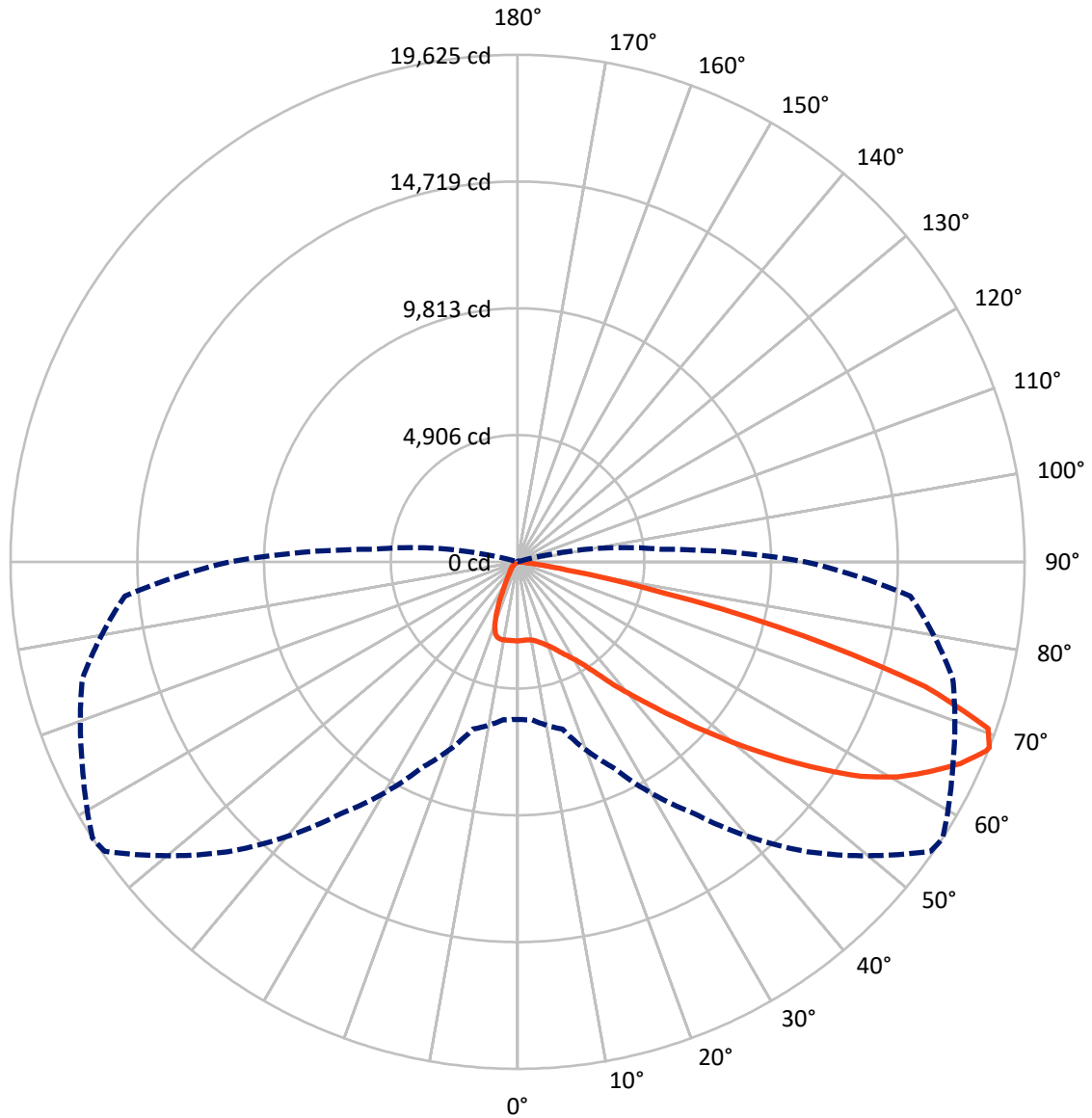
✕ Max cd
 - - - 1/2 Max cd



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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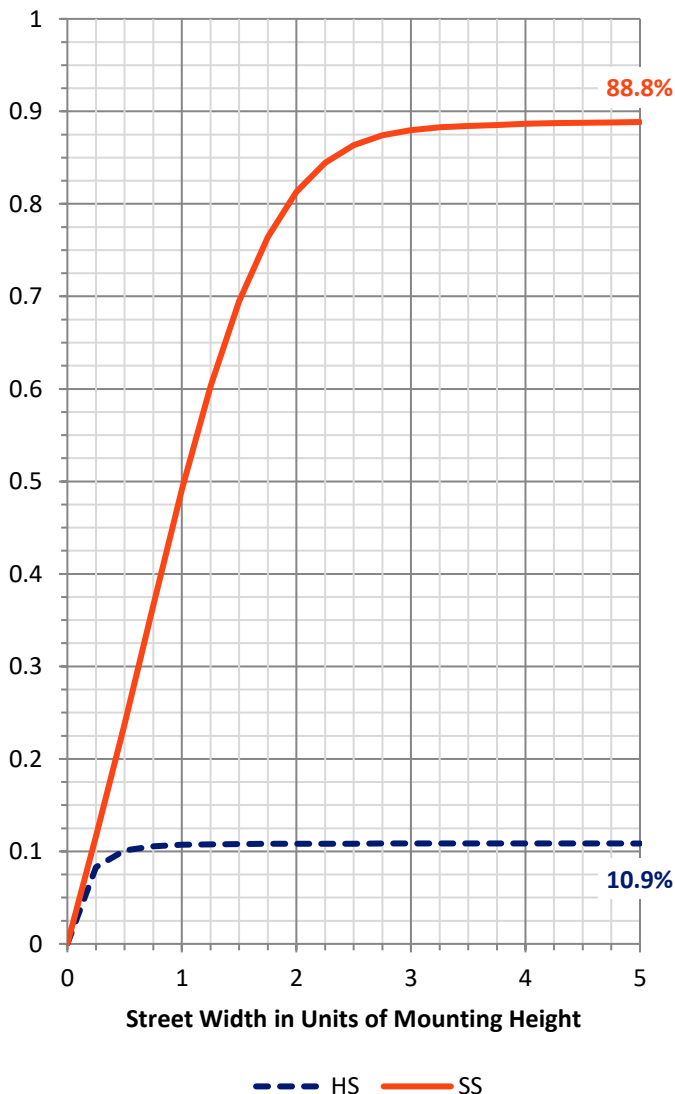
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2822.1	0.0	2822.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22913.9	0.0	22913.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	25736.0	0.0	25736.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	1.1
10°-20°	793.1	3.1
20°-30°	1368.1	5.3
30°-40°	2361.3	9.2
40°-50°	4039.1	15.7
50°-60°	6462.1	25.1
60°-70°	7466.3	29.0
70°-80°	2853.0	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°	25736.0	100.0
0°-180°	25736.0	100.0



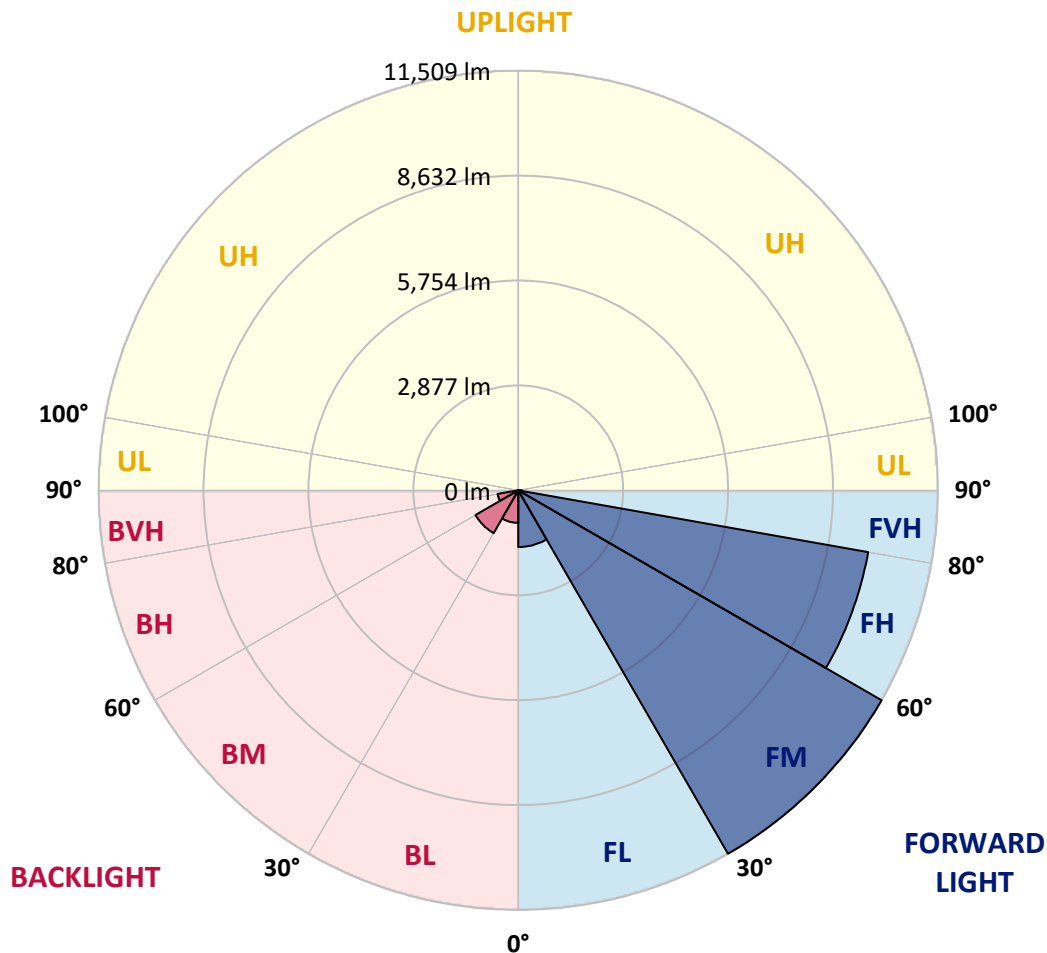
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.5	6.0			
FM (30°-60°)	11508.9	44.7			
FH (60°-80°)	9744.5	37.9			G4/12000
FVH (80°-90°)	105.0	0.4			G2/225
BL (0°-30°)	891.9	3.5	B2/1000		
BM (30°-60°)	1353.5	5.3	B2/2500		
BH (60°-80°)	574.7	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°	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1
2.5°	2986.3	2999.7	3009.4	3015.5	3022.8	3038.6	3043.5	3050.8	3054.5	3054.5	3063.0
5°	2868.3	2882.9	2903.6	2920.6	2954.7	2998.5	3030.1	3042.3	3064.2	3083.7	3094.6
7.5°	2758.8	2775.8	2800.1	2840.3	2898.7	2969.3	3035.0	3052.0	3094.6	3136.0	3156.7
10°	2688.2	2701.6	2733.2	2790.4	2867.1	2965.6	3058.1	3078.8	3151.8	3221.2	3260.1
12.5°	2663.8	2676.0	2708.9	2773.4	2868.3	2983.9	3111.7	3142.1	3249.2	3350.2	3404.9
15°	2699.1	2701.6	2736.8	2797.7	2891.4	3028.9	3200.5	3237.0	3372.1	3503.5	3571.7
17.5°	2835.4	2824.5	2842.7	2869.5	2943.7	3088.5	3294.2	3349.0	3529.1	3683.6	3748.1
20°	3176.2	3176.2	3134.8	3061.8	3063.0	3181.0	3420.8	3482.8	3703.1	3882.0	3940.4
22.5°	3759.1	3748.1	3665.4	3486.5	3322.2	3340.4	3575.3	3655.6	3912.4	4103.4	4122.9
25°	4460.0	4446.6	4318.8	4066.9	3782.2	3598.4	3784.6	3877.1	4161.9	4331.0	4290.9
27.5°	5202.3	5191.4	5064.8	4752.1	4346.8	4009.7	4034.1	4121.7	4416.2	4582.9	4455.1
30°	5921.5	5925.2	5799.8	5478.6	5019.8	4534.2	4350.5	4401.6	4663.2	4832.4	4649.8
32.5°	6605.4	6610.3	6502.0	6143.0	5714.6	5143.9	4788.6	4775.2	4950.4	5117.1	4907.8
35°	7215.1	7227.3	7153.0	6874.4	6420.5	5823.0	5356.9	5325.2	5358.1	5546.7	5303.3
37.5°	7802.9	7810.2	7754.2	7519.3	7139.7	6568.9	6074.9	6029.8	5959.2	6104.1	5825.4
40°	8446.6	8428.4	8363.9	8150.9	7824.8	7392.8	6846.4	6768.5	6645.6	6774.6	6511.7
42.5°	9045.4	9024.7	9035.6	8794.7	8519.6	8239.8	7745.7	7611.8	7540.0	7688.5	7353.8
45°	9793.8	9782.8	9819.3	9610.0	9387.3	9184.1	8776.4	8630.4	8598.7	8772.8	8372.4
47.5°	10532.4	10559.2	10672.4	10583.5	10493.5	10314.6	9868.0	9802.3	9821.7	10032.3	9446.9
50°	11148.2	11179.8	11490.1	11592.4	11722.6	11617.9	11170.1	11129.9	11206.6	11396.4	10603.0
52.5°	11593.6	11658.1	12043.8	12514.8	12989.4	13060.0	12613.4	12576.8	12680.3	12709.5	11496.2
55°	11902.7	11959.9	12396.7	13258.3	14224.6	14528.8	14251.3	14110.2	14090.7	13802.3	12435.7
57.5°	11957.4	11951.4	12579.3	13739.0	15193.2	15978.1	15802.9	15664.2	15265.0	14812.3	13512.7
60°	11648.3	11683.6	12412.6	13905.7	15801.7	17074.6	17088.0	16907.9	16286.0	15794.4	14556.8
62.5°	10696.7	10840.3	11576.5	13468.9	15794.4	17516.3	18029.9	17892.3	17148.8	16598.8	15615.5
65°	9153.7	9204.8	9906.9	11972.0	14727.1	17331.3	18878.1	18826.9	17926.4	17380.0	16159.5
67.5°	6684.5	6573.8	7311.2	9427.5	12468.5	16253.2	19486.5	19551.0	18526.4	17540.7	15580.2
68°	6100.4	6133.3	6707.7	8798.3	11877.1	15872.3	19526.7	19625.2	18586.0	17436.0	15263.8
70°	3636.2	3699.4	4211.8	6057.8	9035.6	13717.1	19093.4	19318.6	18230.7	16356.6	13202.3
72.5°	928.5	1004.0	1488.3	2711.3	5160.9	9664.8	16118.1	16499.0	15828.5	13269.3	8912.7
75°	382.1	401.6	531.8	893.2	1922.7	4354.1	10623.7	11439.0	10973.0	7944.0	4028.0
77.5°	264.1	277.5	342.0	495.3	832.4	1476.1	5208.4	5797.4	5223.0	2711.3	878.6
80°	189.8	200.8	244.6	329.8	478.2	526.9	1697.6	1962.9	1558.9	595.1	217.8
82.5°	113.2	121.7	182.5	234.9	290.8	251.9	422.3	479.5	451.5	295.7	97.4
85°	56.0	65.7	122.9	167.9	157.0	105.9	129.0	143.6	177.7	180.1	52.3
87.5°	3.7	7.3	71.8	101.0	43.8	24.3	37.7	46.2	63.3	88.8	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°	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1
2.5°	3066.6	3067.9	3059.3	3055.7	3058.1	3043.5	3037.4	3039.9	3039.9	3043.5	3037.4
5°	3097.1	3097.1	3082.5	3063.0	3052.0	3024.0	3005.8	3000.9	2997.3	2994.8	2990.0
7.5°	3162.8	3155.5	3129.9	3087.3	3050.8	2990.0	2943.7	2919.4	2907.2	2902.3	2898.7
10°	3268.6	3255.3	3212.7	3133.6	3049.6	2941.3	2840.3	2768.5	2708.9	2684.5	2669.9
12.5°	3411.0	3391.6	3319.8	3188.3	3041.1	2841.5	2622.5	2411.9	2216.0	2135.7	2095.5
15°	3575.3	3547.3	3434.1	3234.6	2991.2	2616.4	2140.6	1771.8	1500.5	1398.2	1354.4
17.5°	3742.0	3705.5	3533.9	3263.8	2841.5	2150.3	1501.7	1134.2	952.8	904.2	887.1
20°	3910.0	3856.4	3620.3	3241.9	2503.2	1550.4	990.6	828.7	776.4	761.8	756.9
22.5°	4069.4	3986.6	3698.2	3156.7	1982.4	1040.5	783.7	732.6	715.5	707.0	704.6
25°	4208.1	4092.5	3766.4	2893.8	1403.1	786.1	705.8	688.8	666.9	651.1	652.3
27.5°	4338.3	4198.4	3807.7	2460.6	935.8	671.7	653.5	630.4	590.2	567.1	567.1
30°	4495.3	4339.5	3838.2	1893.5	688.8	593.9	579.3	544.0	489.2	458.8	458.8
32.5°	4731.4	4553.7	3818.7	1328.9	570.7	522.1	488.0	439.3	379.7	350.5	349.3
35°	5092.8	4884.7	3680.0	871.3	503.8	453.9	399.1	339.5	287.2	262.9	261.6
37.5°	5579.6	5327.7	3368.4	623.1	451.5	390.6	324.9	259.2	220.3	204.4	203.2
40°	6211.2	5842.4	2923.0	505.0	402.8	329.8	250.7	200.8	174.0	161.9	163.1
42.5°	6969.3	6393.7	2388.8	435.7	355.3	271.4	195.9	158.2	141.2	132.6	130.2
45°	7811.4	6937.7	1829.0	388.2	307.9	219.0	153.3	125.3	112.0	107.1	107.1
47.5°	8737.5	7467.0	1338.6	346.8	256.8	169.2	122.9	102.2	91.3	87.6	86.4
50°	9578.4	7834.5	965.0	303.0	210.5	133.9	99.8	85.2	77.9	73.0	73.0
52.5°	10279.3	7950.1	710.7	255.6	170.4	107.1	82.8	73.0	65.7	62.1	62.1
55°	10896.3	7902.7	528.1	210.5	137.5	87.6	70.6	62.1	56.0	52.3	52.3
57.5°	11487.7	7749.3	394.3	171.6	110.7	70.6	59.6	52.3	46.2	43.8	43.8
60°	11970.8	7493.8	293.3	138.7	88.8	57.2	49.9	42.6	37.7	34.1	34.1
62.5°	12362.7	7211.5	215.4	114.4	70.6	45.0	38.9	35.3	28.0	24.3	24.3
65°	12365.1	6742.9	161.9	94.9	54.8	35.3	29.2	28.0	18.3	14.6	13.4
67.5°	11470.7	5813.2	124.1	81.5	42.6	26.8	21.9	23.1	9.7	6.1	4.9
68°	11145.8	5577.1	116.8	80.3	40.2	25.6	20.7	23.1	8.5	4.9	3.7
70°	9397.0	4436.9	93.7	77.9	35.3	19.5	17.0	23.1	7.3	3.7	2.4
72.5°	6010.4	2575.0	69.4	62.1	26.8	14.6	11.0	20.7	7.3	2.4	1.2
75°	2558.0	798.3	47.5	43.8	15.8	11.0	7.3	13.4	4.9	1.2	0.0
77.5°	539.1	180.1	28.0	26.8	11.0	7.3	4.9	3.7	1.2	0.0	0.0
80°	138.7	52.3	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)