

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: P322842

Luminaire Tested: **GAN-SA8B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30231 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

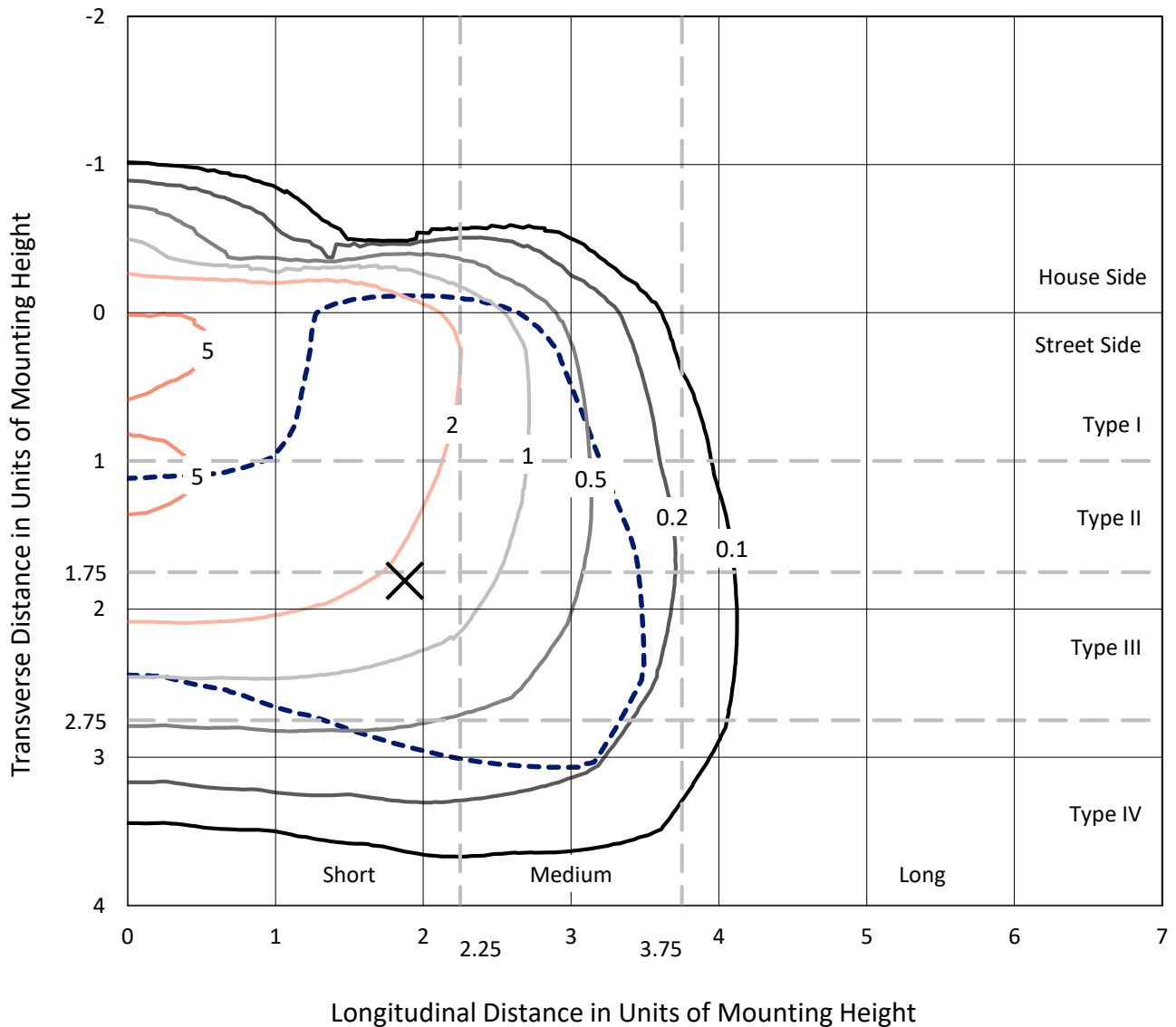
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

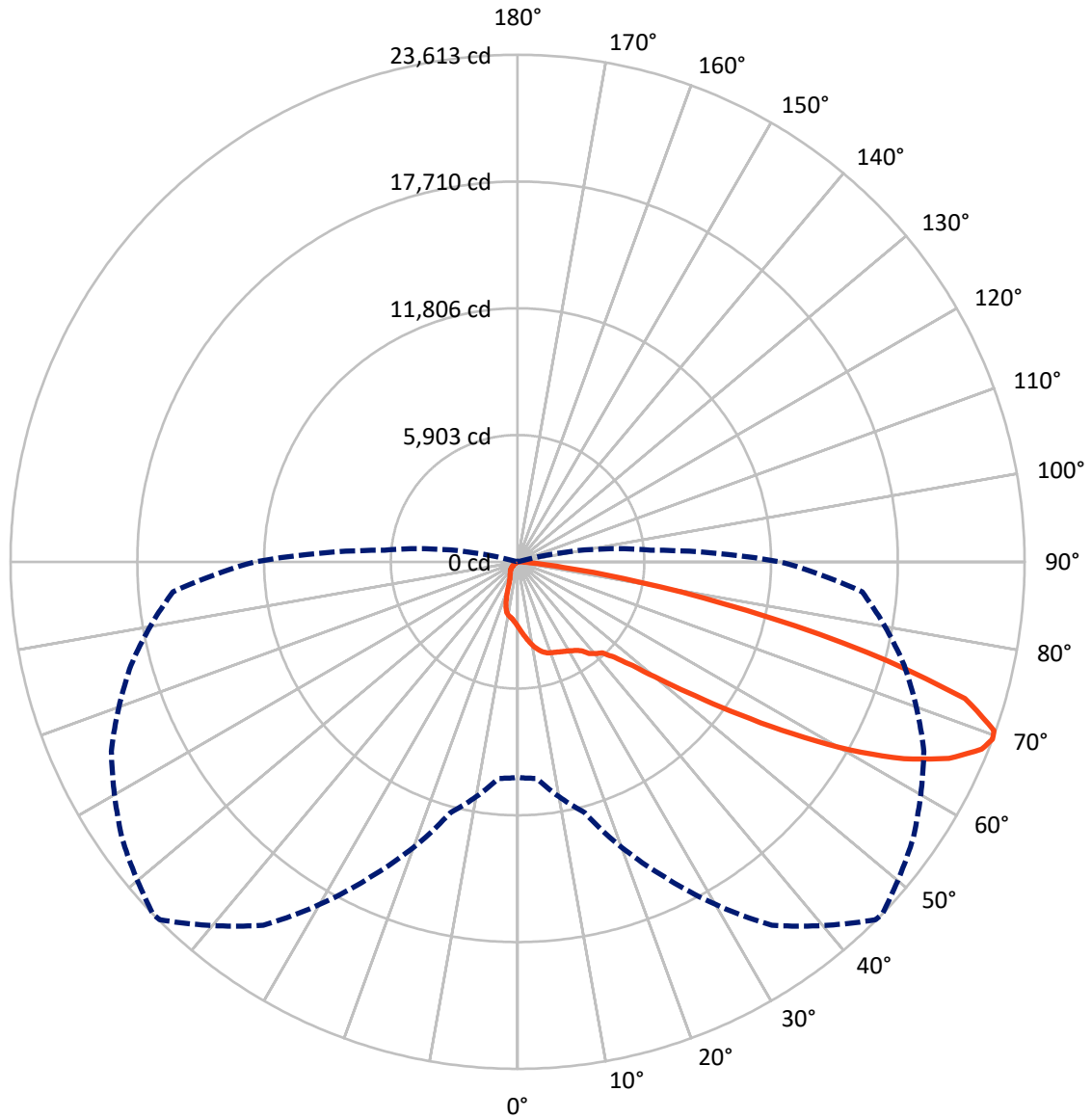
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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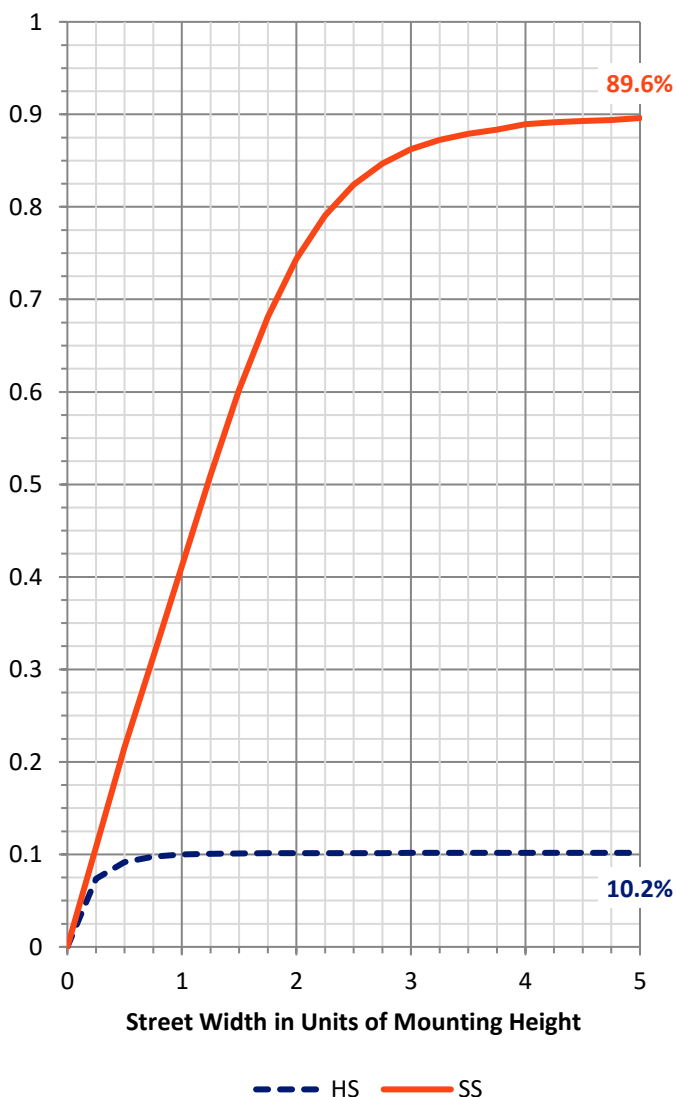
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3102.5	0.0	3102.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27128.5	0.0	27128.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	30231.0	0.0	30231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.5	1.0
10°-20°	914.7	3.0
20°-30°	1438.5	4.8
30°-40°	2062.8	6.8
40°-50°	3565.2	11.8
50°-60°	7043.4	23.3
60°-70°	9843.8	32.6
70°-80°	4755.6	15.7
80°-90°	305.7	1.0
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°	30231.0	100.0
0°-180°	30231.0	100.0

Coefficient of Utilization

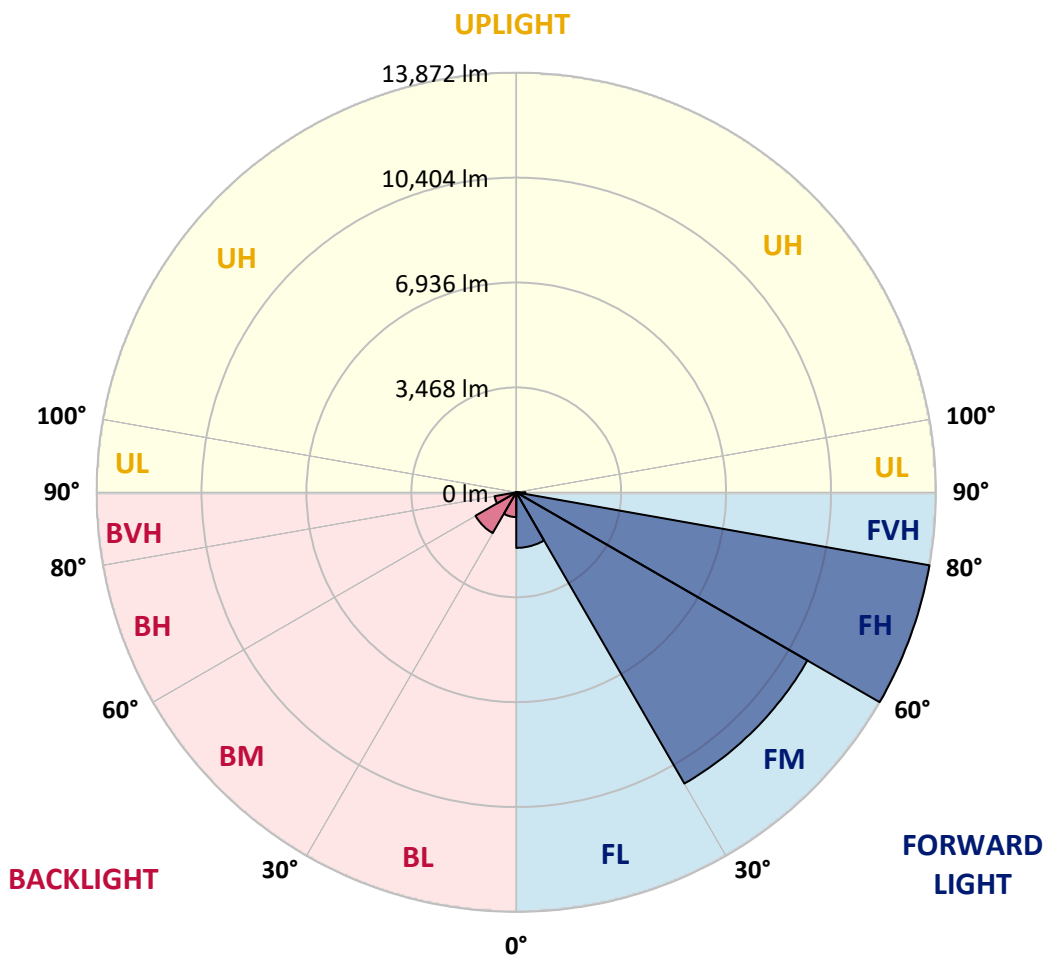


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.9	6.1			
FM (30°-60°)	11116.6	36.8			
FH (60°-80°)	13871.9	45.9			G5
FVH (80°-90°)	303.1	1.0			G3/500
BL (0°-30°)	817.7	2.7	B2/1000		
BM (30°-60°)	1554.7	5.1	B2/2500		
BH (60°-80°)	727.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.6	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0
2.5°	3365.0	3360.7	3340.9	3332.4	3284.2	3255.8	3244.5	3209.0	3158.0	3107.0	3050.3
5°	3747.7	3746.2	3709.4	3674.0	3583.2	3498.2	3482.6	3400.4	3285.6	3177.9	3070.1
7.5°	4138.9	4120.4	4083.6	4015.6	3883.7	3747.7	3734.9	3618.7	3455.7	3299.8	3145.3
10°	4470.6	4459.2	4411.0	4307.5	4153.0	3998.6	3983.0	3839.8	3655.5	3464.2	3267.2
12.5°	4728.5	4720.0	4656.2	4527.2	4362.8	4202.7	4181.4	4053.8	3856.8	3642.8	3410.3
15°	4885.9	4881.6	4803.6	4666.2	4504.6	4365.7	4347.2	4235.3	4052.4	3828.5	3566.2
17.5°	4922.7	4924.1	4843.3	4704.4	4571.2	4472.0	4457.8	4372.8	4219.7	3997.1	3722.2
20°	4840.5	4857.5	4785.2	4664.7	4582.5	4530.1	4518.7	4467.7	4338.7	4129.0	3846.9
22.5°	4724.3	4732.8	4683.2	4602.4	4568.4	4578.3	4572.6	4544.3	4435.1	4242.3	3970.2
25°	4653.4	4653.4	4623.6	4555.6	4578.3	4639.2	4640.6	4635.0	4548.5	4381.3	4120.4
27.5°	4650.6	4642.1	4608.0	4557.0	4619.4	4712.9	4718.6	4756.9	4703.0	4549.9	4307.5
30°	4764.0	4754.0	4681.7	4615.1	4694.5	4795.1	4809.3	4892.9	4866.0	4732.8	4515.9
32.5°	5029.0	4993.6	4833.4	4724.3	4783.8	4904.3	4922.7	5055.9	5098.5	4958.1	4717.2
35°	5391.9	5279.9	5048.9	4931.2	4936.9	5063.0	5080.0	5275.6	5401.8	5165.1	4873.1
37.5°	5892.2	5836.9	5461.3	5146.7	5172.2	5363.5	5413.1	5625.8	5590.3	5278.5	5050.3
40°	6989.3	6902.9	6503.1	5750.5	5397.5	5607.3	5622.9	5736.3	5739.1	5535.0	5418.8
42.5°	8483.3	8447.8	8026.9	6846.2	5841.2	5770.3	5798.7	5990.0	6204.1	6076.5	6070.8
45°	10137.4	10119.0	9672.5	8300.4	6738.4	6304.7	6340.1	6596.7	7006.3	7034.7	7214.7
47.5°	11468.4	11459.9	11203.3	9923.4	8111.9	7210.4	7221.8	7493.9	8214.0	8569.7	8857.5
50°	12681.7	12722.8	12520.1	11679.6	9982.9	8629.3	8602.3	8783.8	9940.4	10522.9	10880.1
52.5°	14368.4	14426.5	13858.1	13318.1	11946.0	10389.7	10368.5	10558.4	12015.5	12452.1	12515.8
55°	15858.1	15758.9	15309.6	15153.7	14340.1	12564.0	12558.4	12725.6	14022.6	14208.2	14325.9
57.5°	16515.8	16477.5	16694.4	17051.6	16847.5	15133.8	15121.1	14993.5	15818.4	15838.3	16199.7
60°	16931.1	16977.9	17642.7	18744.0	19252.9	17899.2	17817.0	17038.8	17533.5	17489.6	17876.5
62.5°	16619.3	16711.4	17907.7	19743.3	21053.0	20313.1	20196.9	18912.7	18999.1	18847.5	19207.5
65°	14963.7	15106.9	17067.2	19554.8	21946.0	22199.7	22082.0	20566.8	20162.8	19913.4	19713.5
67.5°	12150.2	12235.2	14282.0	17914.8	21543.4	23325.1	23301.0	22016.8	21041.6	19733.4	18182.7
69°	10041.0	10124.7	12094.9	16188.4	20657.5	23566.1	23612.9	22481.7	20874.4	18639.1	16110.4
70°	8504.5	8593.8	10429.4	14708.6	19629.9	23454.1	23537.7	22437.8	20395.3	17371.9	14291.9
72.5°	4460.6	4537.2	6420.9	10133.2	16002.7	21536.3	21790.0	20541.3	17288.3	12616.5	8450.7
75°	1401.8	1445.8	2507.4	5296.9	10956.7	16745.4	16803.6	16113.3	12276.3	6939.7	3519.5
77.5°	534.4	521.6	834.9	1951.8	5539.3	10544.2	10900.0	10069.4	6442.2	2453.6	812.2
80°	287.7	289.2	433.7	807.9	2369.9	5418.8	5719.3	4880.2	2289.1	765.4	187.1
82.5°	124.7	130.4	243.8	428.1	1088.6	1998.6	2148.8	1788.8	874.6	514.5	69.5
85°	26.9	29.8	117.6	232.5	443.7	561.3	588.2	579.7	557.0	399.7	26.9
87.5°	0.0	0.0	52.4	83.6	112.0	127.6	112.0	146.0	307.6	269.3	14.2
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°	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0	3029.0
2.5°	3031.9	3006.4	2962.4	2914.2	2880.2	2844.8	2816.4	2803.7	2789.5	2779.6	2792.3
5°	3026.2	2976.6	2891.5	2809.3	2749.8	2701.6	2661.9	2646.3	2630.7	2619.4	2618.0
7.5°	3075.8	3006.4	2876.0	2755.5	2663.3	2598.1	2544.3	2521.6	2503.2	2494.7	2487.6
10°	3170.8	3081.5	2907.1	2749.8	2630.7	2520.2	2403.9	2314.7	2256.5	2229.6	2219.7
12.5°	3294.1	3182.1	2966.7	2779.6	2606.6	2394.0	2147.4	1934.8	1797.3	1751.9	1725.0
15°	3438.7	3299.8	3044.6	2817.8	2518.8	2130.4	1712.2	1434.4	1306.9	1281.4	1253.0
17.5°	3577.6	3424.5	3138.2	2824.9	2326.0	1702.3	1254.4	1065.9	1016.3	1033.3	1037.6
20°	3699.5	3547.8	3230.3	2762.6	1975.9	1277.1	970.9	924.2	942.6	975.2	980.9
22.5°	3822.8	3666.9	3315.4	2598.1	1528.0	969.5	874.6	885.9	904.3	936.9	942.6
25°	3973.0	3811.5	3394.7	2296.2	1146.7	824.9	830.6	847.6	866.0	895.8	898.6
27.5°	4146.0	3994.3	3447.2	1903.6	850.5	758.3	776.7	802.3	820.7	849.0	854.7
30°	4375.6	4235.3	3464.2	1496.8	713.0	698.8	707.3	738.5	765.4	790.9	795.2
32.5°	4591.0	4473.4	3407.5	1129.7	660.5	643.5	643.5	661.9	693.1	717.2	722.9
35°	4789.5	4712.9	3226.1	826.4	620.8	592.5	578.3	578.3	598.2	618.0	623.7
37.5°	5051.7	5048.9	2932.6	659.1	582.6	550.0	520.2	497.5	490.4	494.7	497.5
40°	5501.0	5505.3	2549.9	591.1	550.0	506.0	460.7	419.6	381.3	368.5	367.1
42.5°	6202.6	6138.9	2148.8	558.5	521.6	460.7	392.6	337.3	277.8	259.4	258.0
45°	7316.7	6938.3	1723.6	528.7	491.8	409.6	324.6	249.5	201.3	187.1	187.1
47.5°	8939.7	7988.6	1335.2	496.1	452.2	351.5	245.2	180.0	147.4	140.3	141.7
50°	10617.9	9017.6	1023.4	455.0	404.0	290.6	181.4	130.4	112.0	112.0	113.4
52.5°	12106.2	9771.7	798.0	411.1	344.4	228.2	137.5	102.1	93.5	92.1	93.5
55°	13499.5	10257.9	610.9	360.0	273.6	170.1	104.9	83.6	78.0	75.1	73.7
57.5°	14843.3	10498.9	457.8	290.6	198.4	123.3	83.6	70.9	65.2	60.9	59.5
60°	15737.6	10303.2	314.7	214.0	137.5	89.3	69.5	60.9	53.9	49.6	48.2
62.5°	16242.3	9768.9	202.7	154.5	97.8	66.6	55.3	51.0	41.1	36.9	36.9
65°	16038.1	8887.2	141.7	110.6	70.9	49.6	41.1	41.1	29.8	24.1	22.7
67.5°	14212.5	7508.1	107.7	82.2	51.0	36.9	31.2	35.4	18.4	11.3	11.3
69°	12228.1	6222.5	92.1	68.0	42.5	29.8	26.9	32.6	12.8	8.5	7.1
70°	10627.8	5367.8	83.6	59.5	35.4	25.5	24.1	31.2	12.8	7.1	5.7
72.5°	6358.6	2993.6	63.8	42.5	22.7	19.8	19.8	35.4	12.8	7.1	5.7
75°	2569.8	1054.6	46.8	29.8	17.0	17.0	24.1	45.4	11.3	5.7	4.3
77.5°	582.6	231.0	26.9	18.4	11.3	17.0	28.3	35.4	7.1	2.8	0.0
80°	141.7	56.7	17.0	11.3	7.1	12.8	21.3	19.8	1.4	0.0	0.0
82.5°	46.8	19.8	7.1	5.7	1.4	4.3	9.9	5.7	0.0	0.0	0.0
85°	19.8	11.3	2.8	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.8	4.3	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)