

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: McGRAW-EDISON

Report Number: P453983

Luminaire Tested: **GALN-SA5A-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17931 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

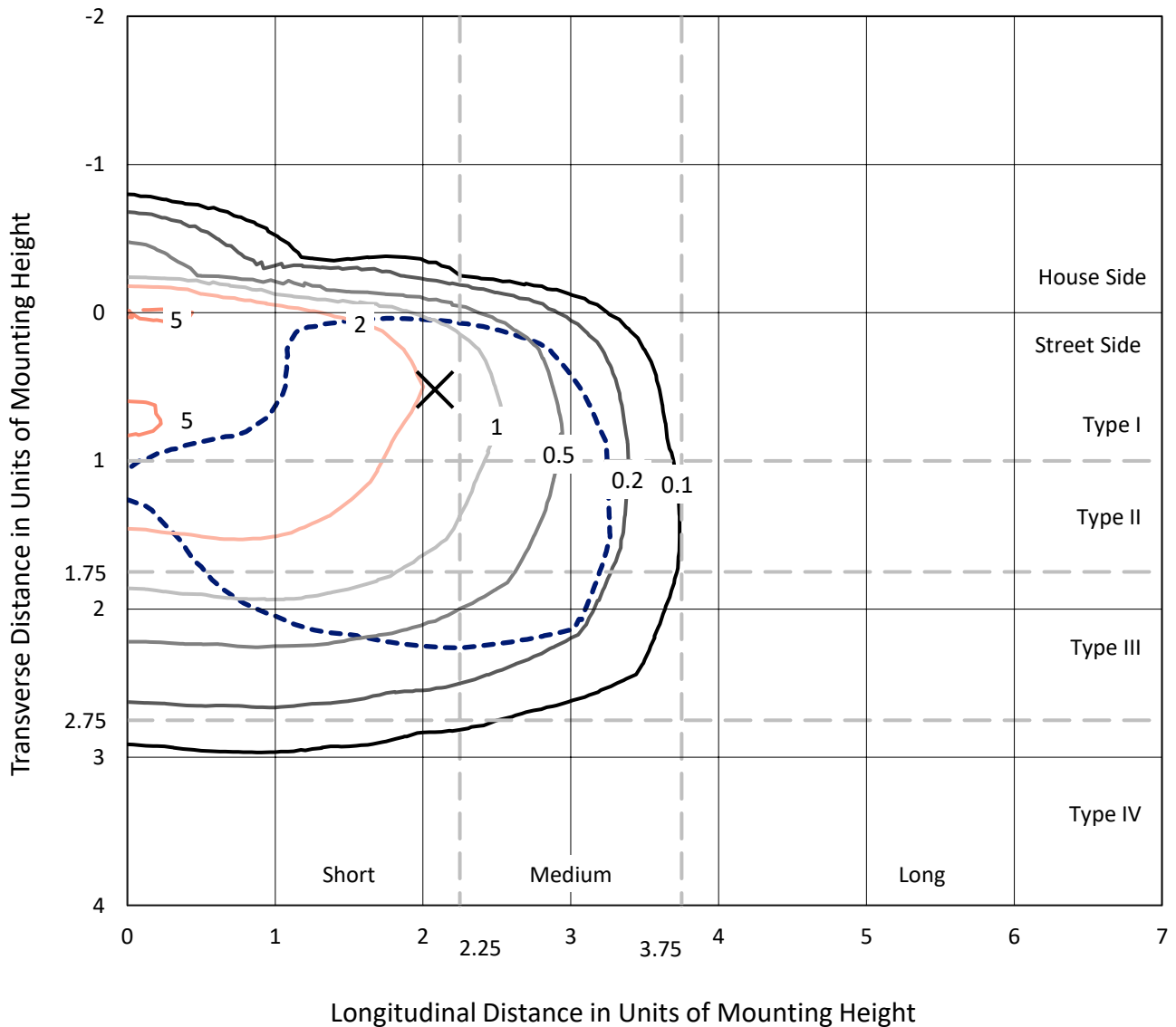
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

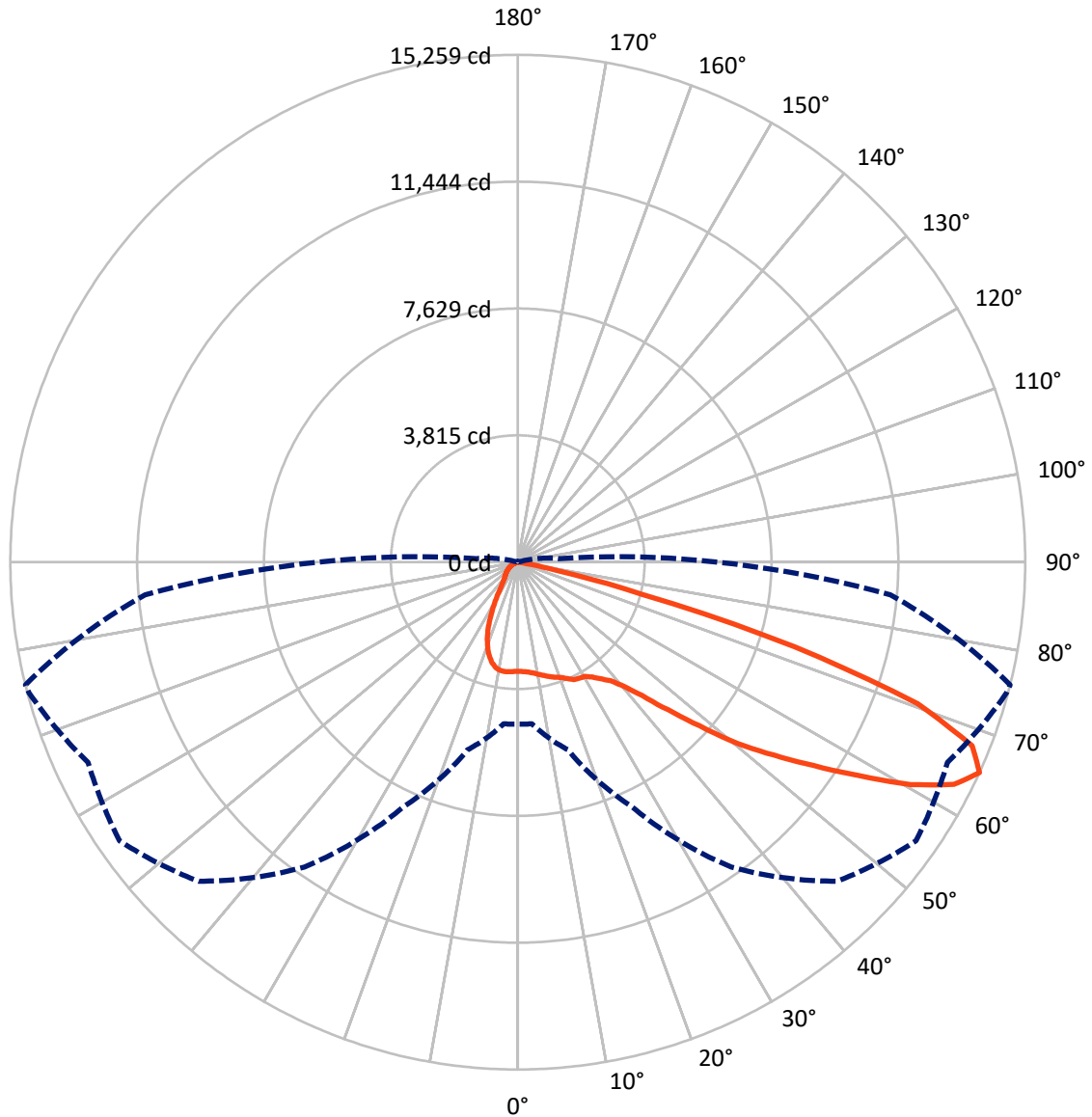
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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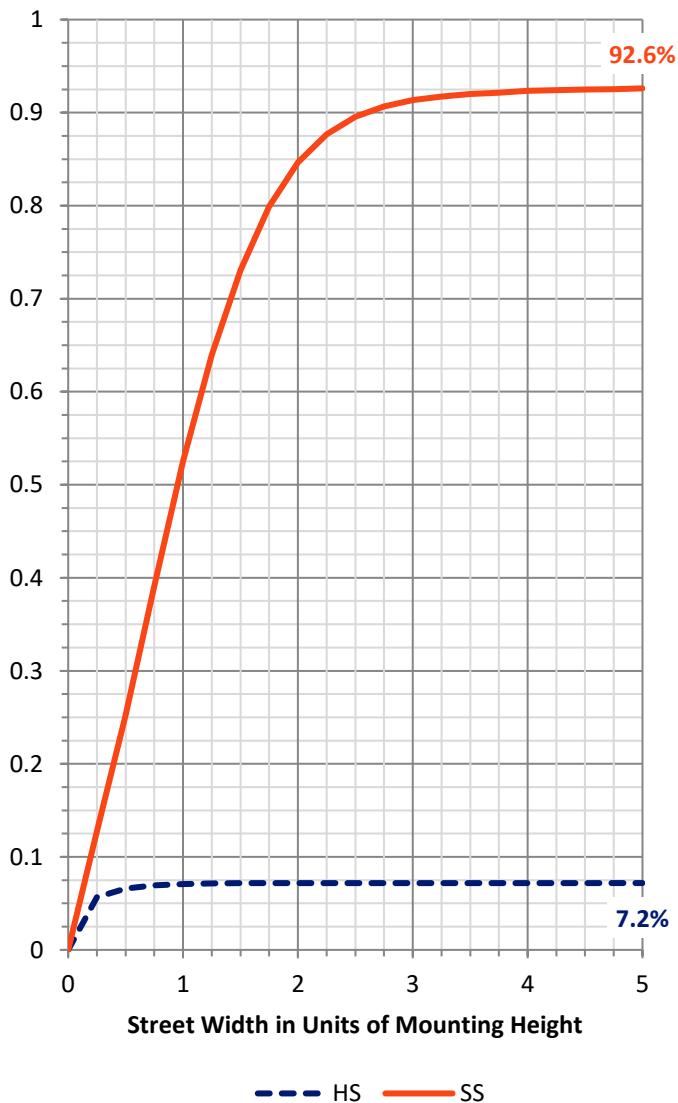
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1295.0	0.0	1295.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16636.0	0.0	16636.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	17931.0	0.0	17931.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.5
10°-20°	601.6	3.4
20°-30°	969.5	5.4
30°-40°	1685.7	9.4
40°-50°	2785.5	15.5
50°-60°	4303.0	24.0
60°-70°	5254.6	29.3
70°-80°	1994.3	11.1
80°-90°	66.6	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°	17931.0	100.0
0°-180°	17931.0	100.0



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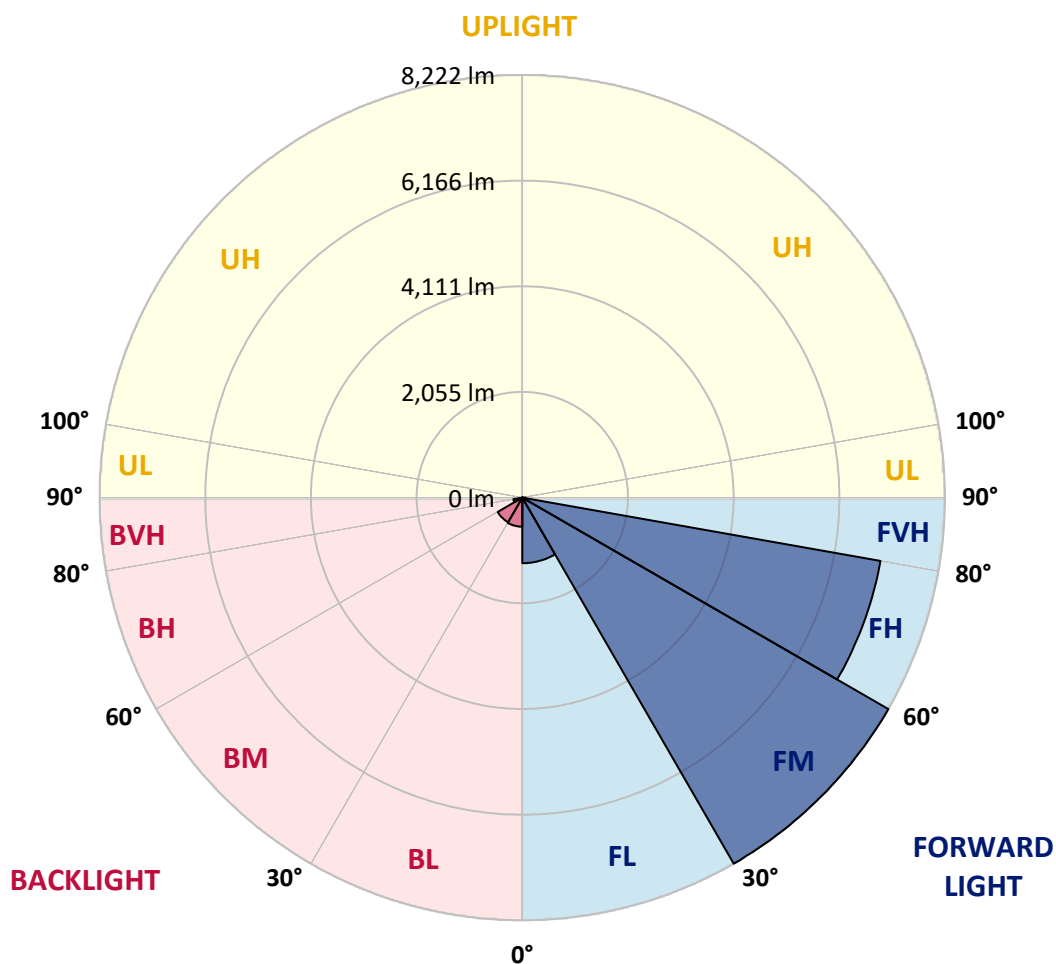
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1275.6	7.1			
FM	(30°-60°)	8221.6	45.9			
FH	(60°-80°)	7073.2	39.4			G3/7500
FVH	(80°-90°)	65.6	0.4			G1/100
BL	(0°-30°)	565.7	3.2	B2/1000		
BM	(30°-60°)	552.6	3.1	B1/1000		
BH	(60°-80°)	175.7	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2
2.5°	3134.6	3135.8	3143.4	3162.4	3191.5	3215.6	3235.8	3268.8	3291.5	3294.1	3301.7
5°	2918.1	2902.9	2918.1	2967.5	3011.8	3078.9	3161.2	3243.4	3316.9	3321.9	3357.4
7.5°	2675.0	2687.7	2711.7	2762.4	2845.9	2948.5	3067.5	3214.3	3353.6	3366.2	3435.9
10°	2428.1	2456.0	2495.2	2572.5	2688.9	2821.9	2983.9	3194.1	3411.8	3429.5	3549.8
12.5°	2200.3	2212.9	2261.0	2364.8	2509.2	2696.5	2920.6	3182.7	3476.4	3497.9	3671.3
15°	2025.6	2042.0	2083.8	2177.5	2338.3	2578.8	2868.7	3178.9	3539.7	3570.1	3792.9
17.5°	1992.7	2002.8	2020.5	2083.8	2224.3	2485.1	2821.9	3177.6	3600.4	3637.2	3905.5
20°	2128.1	2119.2	2101.5	2095.2	2172.4	2413.0	2787.7	3187.7	3658.7	3700.5	4024.5
22.5°	2467.4	2478.8	2375.0	2252.2	2226.9	2401.6	2782.6	3235.8	3751.1	3800.5	4157.5
25°	3187.7	3100.4	2938.3	2644.6	2423.1	2471.2	2839.6	3349.8	3858.7	3913.1	4277.7
27.5°	3984.0	3957.5	3705.5	3221.9	2809.2	2618.0	2940.9	3437.1	3894.2	3949.9	4346.1
30°	4766.4	4798.1	4509.4	3975.2	3370.0	2890.2	3035.8	3470.0	3925.8	3984.0	4433.5
32.5°	5491.8	5529.8	5276.6	4747.4	4030.9	3361.2	3199.1	3597.9	4058.7	4118.2	4579.0
35°	6062.8	6067.8	5876.7	5455.1	4752.5	3933.4	3552.3	3822.0	4238.5	4308.1	4733.5
37.5°	6586.9	6579.3	6355.2	5991.9	5353.8	4501.8	3996.7	4080.3	4443.6	4515.7	4956.3
40°	6975.5	6980.6	6908.4	6566.6	5914.7	5027.2	4348.6	4322.1	4787.9	4900.6	5280.4
42.5°	7235.1	7281.9	7317.4	7143.9	6619.8	5674.1	4889.2	4839.8	5385.5	5479.2	5738.7
45°	7445.2	7528.8	7706.0	7697.2	7297.1	6467.9	5631.1	5529.8	6232.4	6332.4	6322.3
47.5°	7598.4	7683.2	7976.9	8154.2	7933.9	7237.6	6564.1	6476.7	7243.9	7352.8	6966.7
50°	7676.9	7778.2	8152.9	8496.0	8431.4	7979.5	7627.5	7632.6	8465.6	8570.7	7713.6
52.5°	7493.3	7625.0	8246.6	8864.4	8989.7	8689.7	8623.9	8791.0	9553.1	9643.0	8388.4
55°	6907.2	7073.0	8118.7	9178.3	9636.6	9527.8	9755.6	10010.1	10741.8	10800.1	9080.9
57.5°	6536.3	6712.2	7741.5	9445.5	10413.9	10581.1	10941.9	11128.0	11968.6	12116.7	9875.9
60°	6223.6	6361.5	7431.3	9502.4	11203.9	11869.8	12220.5	12412.9	13482.7	13578.9	10750.7
62.5°	5703.2	5861.5	6907.2	9104.9	11601.4	12901.6	13628.3	13542.2	14653.7	14720.8	11287.5
65°	4866.4	4880.3	5843.8	8106.1	11191.3	13571.3	14617.0	14256.2	15213.3	15258.8	11245.7
67.5°	3632.1	3766.3	4495.5	6371.7	9453.1	12999.1	14937.3	14275.2	14860.1	14733.5	10353.2
70°	2339.5	2442.1	3047.2	4418.3	6816.0	10848.2	13875.1	13296.6	13042.1	12761.1	8474.5
72.5°	1079.9	1211.5	1810.4	2524.4	4042.3	7727.5	11263.4	10802.6	9387.2	8693.5	5386.7
75°	470.9	503.9	893.8	1331.8	1895.2	4086.6	7426.2	6705.9	4239.8	3872.6	2156.0
77.5°	287.4	308.9	468.4	714.0	744.4	1557.2	4000.5	2925.7	1310.3	1155.8	584.9
80°	195.0	219.0	340.5	373.5	254.5	434.2	1501.5	781.1	264.6	253.2	125.3
82.5°	94.9	120.3	251.9	208.9	110.1	139.3	436.8	167.1	77.2	72.2	44.3
85°	13.9	24.1	141.8	136.7	49.4	32.9	77.2	41.8	26.6	25.3	20.3
87.5°	0.0	0.0	48.1	21.5	5.1	5.1	8.9	8.9	10.1	8.9	10.1
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°	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2
2.5°	3305.5	3311.8	3287.7	3253.6	3216.9	3180.1	3128.2	3081.4	3053.5	3070.0	3029.5
5°	3365.0	3359.9	3296.6	3192.8	3054.8	2889.0	2724.4	2583.9	2538.3	2469.9	2462.3
7.5°	3447.3	3433.3	3299.1	3061.1	2749.7	2438.3	2134.4	1933.2	1817.9	1720.5	1723.0
10°	3562.5	3522.0	3270.0	2829.5	2316.7	1847.1	1459.7	1193.8	1078.6	1041.9	1012.8
12.5°	3681.5	3603.0	3189.0	2516.8	1804.0	1262.2	887.5	725.4	654.5	631.7	629.2
15°	3787.8	3663.7	3047.2	2140.8	1311.6	806.4	605.1	552.0	543.1	544.4	543.1
17.5°	3892.9	3711.9	2851.0	1742.0	891.2	578.6	520.3	507.7	511.5	516.5	515.3
20°	3980.2	3722.0	2600.3	1329.3	630.5	507.7	488.7	486.1	489.9	493.7	493.7
22.5°	4075.2	3729.6	2302.8	920.4	515.3	472.2	462.1	462.1	467.1	472.2	473.5
25°	4146.1	3687.8	1947.1	660.8	454.5	438.0	433.0	434.2	439.3	441.8	440.6
27.5°	4157.5	3570.1	1569.8	506.4	412.7	396.3	391.2	396.3	389.9	393.7	391.2
30°	4167.6	3420.7	1187.5	426.6	374.7	349.4	341.8	334.2	329.2	322.8	321.6
32.5°	4199.3	3244.7	867.2	383.6	339.3	311.4	293.7	272.2	255.7	250.7	249.4
35°	4213.2	3033.3	636.8	349.4	307.6	277.2	245.6	215.2	191.2	182.3	188.6
37.5°	4266.3	2828.2	493.7	324.1	279.8	241.8	201.3	163.3	140.5	135.5	138.0
40°	4375.2	2605.4	414.0	302.6	255.7	208.9	159.5	122.8	107.6	102.5	101.3
42.5°	4549.9	2383.8	368.4	282.3	231.7	176.0	125.3	96.2	83.6	79.8	79.8
45°	4762.6	2171.2	336.8	260.8	206.4	141.8	98.7	77.2	69.6	67.1	67.1
47.5°	5042.4	1985.1	310.2	239.3	178.5	112.7	79.8	67.1	62.0	63.3	64.6
50°	5326.0	1847.1	281.0	215.2	146.9	92.4	68.4	59.5	58.2	59.5	59.5
52.5°	5539.9	1766.0	241.8	182.3	115.2	77.2	60.8	55.7	54.4	51.9	51.9
55°	5828.6	1748.3	192.4	148.1	91.2	64.6	54.4	50.6	46.8	44.3	43.0
57.5°	6199.5	1768.6	148.1	115.2	70.9	53.2	48.1	41.8	36.7	31.6	31.6
60°	6429.9	1723.0	115.2	88.6	51.9	43.0	36.7	30.4	24.1	20.3	19.0
62.5°	6356.5	1530.6	91.2	65.8	36.7	31.6	24.1	20.3	13.9	10.1	8.9
65°	5978.0	1235.6	73.4	45.6	26.6	19.0	12.7	12.7	6.3	1.3	0.0
67.5°	5232.3	915.3	58.2	30.4	15.2	8.9	6.3	3.8	0.0	0.0	0.0
70°	4258.8	660.8	45.6	19.0	8.9	6.3	2.5	1.3	0.0	0.0	0.0
72.5°	2704.1	378.5	35.4	11.4	6.3	2.5	0.0	0.0	0.0	0.0	0.0
75°	1045.7	148.1	24.1	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	296.2	69.6	13.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	77.2	30.4	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	12.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.5	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	1.3	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)