

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: P453970

Luminaire Tested: **GALN-SA5A-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18838 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

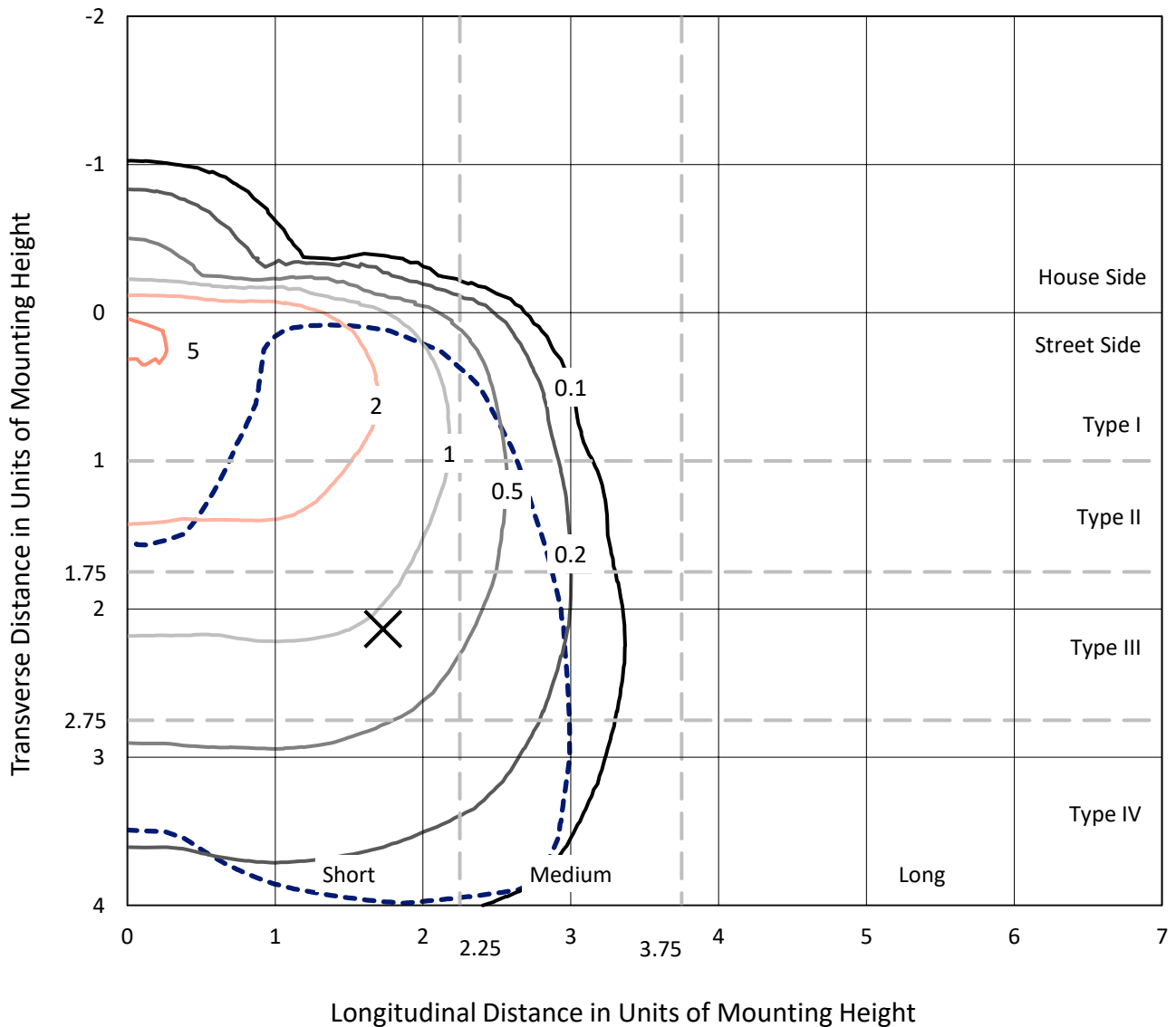
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

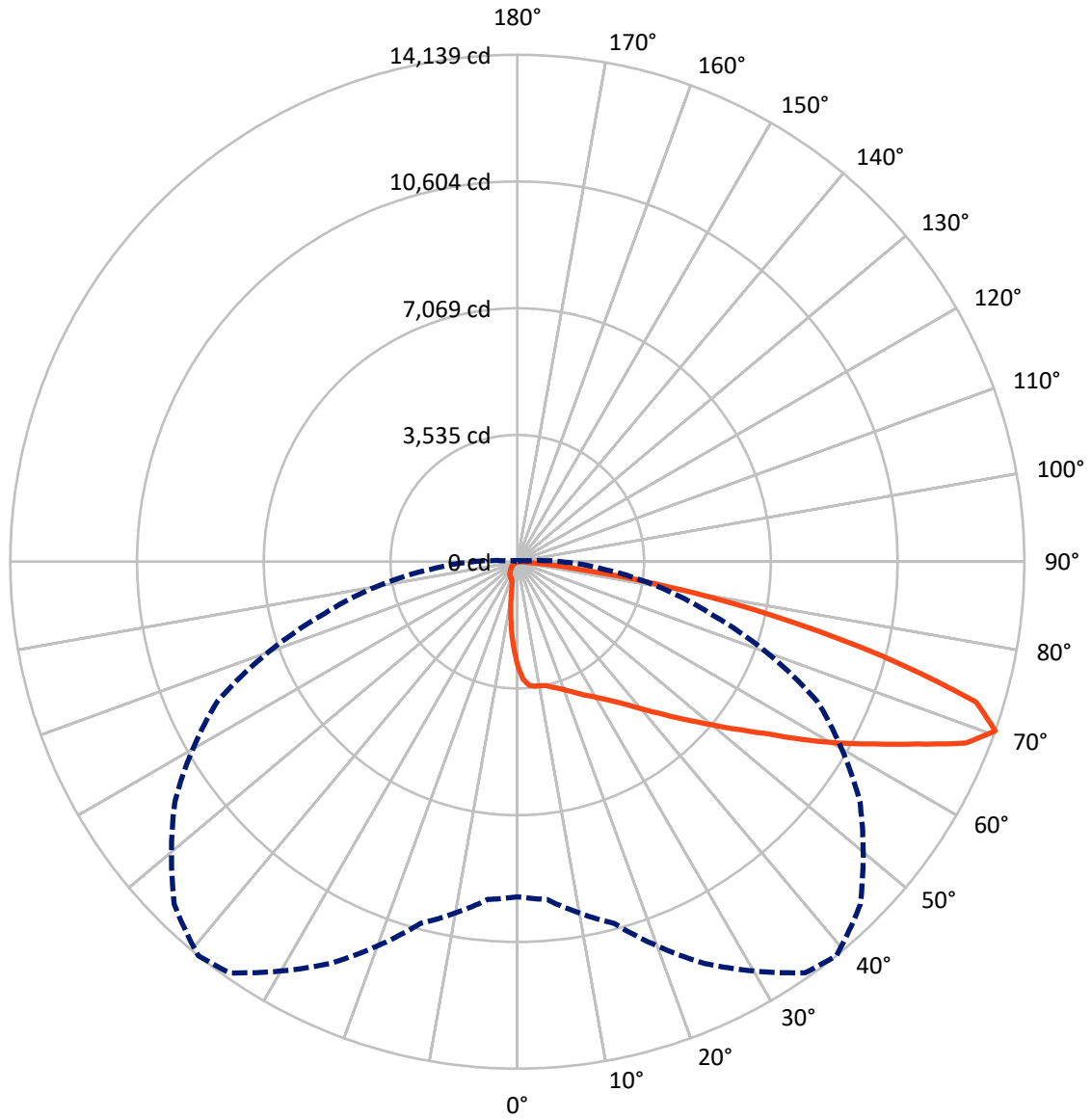
✕ Max cd
 - - - 1/2 Max cd



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 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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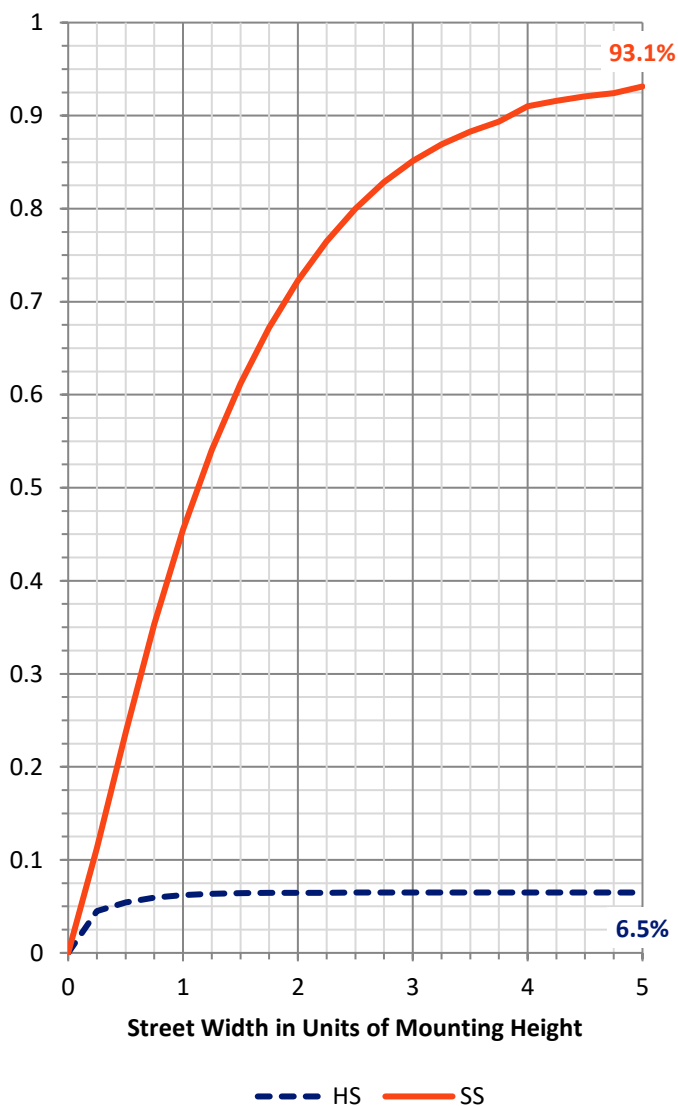
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.3	0.0	1228.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17609.7	0.0	17609.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	18838.0	0.0	18838.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	1.3
10°-20°	651.5	3.5
20°-30°	1091.5	5.8
30°-40°	1692.7	9.0
40°-50°	2682.5	14.2
50°-60°	3932.1	20.9
60°-70°	5040.0	26.8
70°-80°	3167.0	16.8
80°-90°	329.9	1.8
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°	18838.0	100.0
0°-180°	18838.0	100.0



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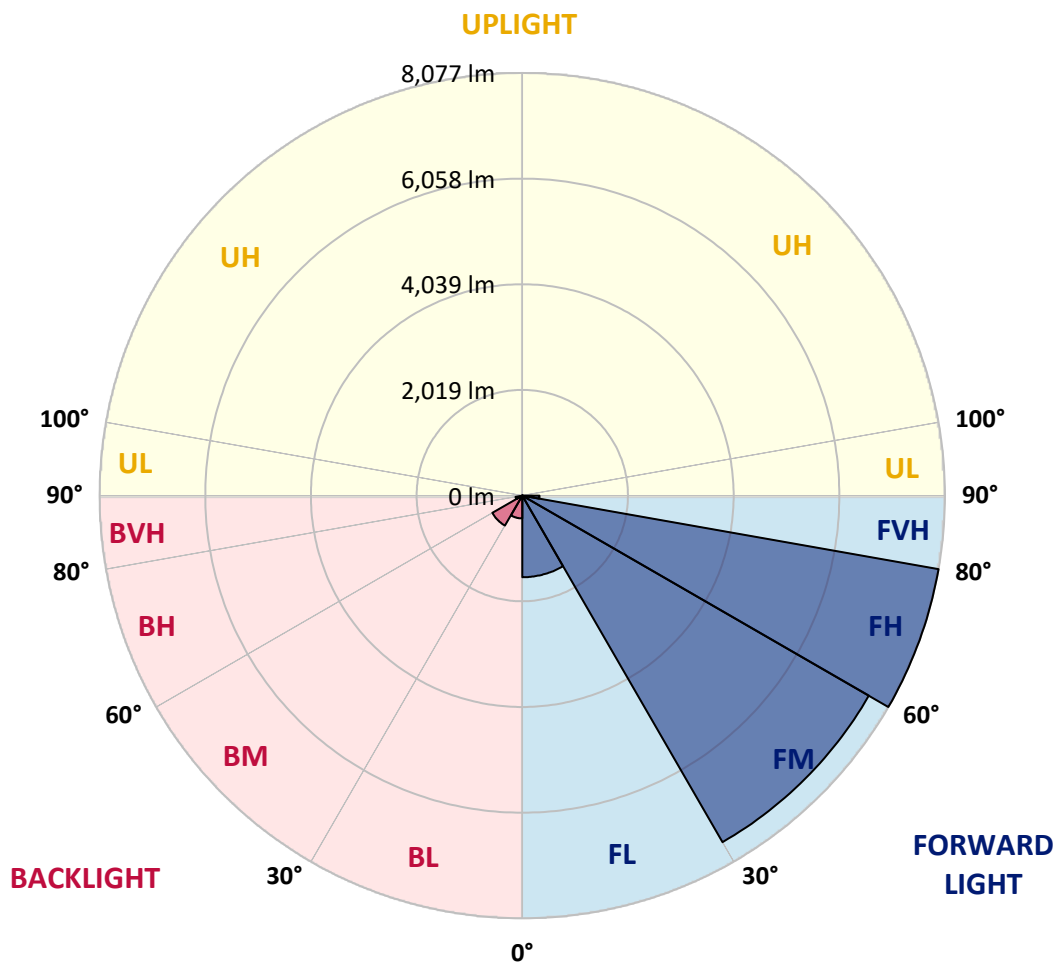
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.7	8.3			
FM	(30°-60°)	7646.3	40.6			
FH	(60°-80°)	8077.1	42.9			G4/12000
FVH	(80°-90°)	327.5	1.7			G3/500
BL	(0°-30°)	434.9	2.3	B1/500		
BM	(30°-60°)	661.1	3.5	B1/1000		
BH	(60°-80°)	129.9	0.7	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4
2.5°	3396.4	3385.0	3369.8	3352.1	3301.4	3292.6	3262.2	3197.6	3120.4	3057.1	2969.8
5°	3557.1	3563.5	3552.1	3520.4	3483.7	3462.2	3424.2	3324.2	3224.2	3096.3	2953.3
7.5°	3593.8	3606.5	3592.6	3562.2	3526.7	3504.0	3473.6	3387.5	3271.0	3125.5	2929.2
10°	3590.0	3605.2	3596.4	3568.5	3539.4	3517.9	3485.0	3416.6	3322.9	3169.8	2936.8
12.5°	3583.7	3604.0	3602.7	3588.8	3564.7	3548.3	3528.0	3467.2	3379.9	3234.3	2978.6
15°	3566.0	3591.3	3614.1	3625.5	3626.7	3626.7	3601.4	3536.9	3453.3	3319.1	3033.0
17.5°	3573.6	3602.7	3659.7	3692.6	3715.4	3712.8	3686.2	3616.6	3524.2	3406.5	3090.0
20°	3620.4	3659.7	3739.4	3805.2	3828.0	3820.4	3785.0	3704.0	3598.9	3481.2	3145.7
22.5°	3735.6	3771.1	3871.1	3948.3	3964.7	3944.5	3893.8	3783.7	3688.8	3562.2	3212.8
25°	3907.8	3949.5	4042.0	4100.2	4100.2	4088.8	4017.9	3888.8	3790.0	3674.9	3300.2
27.5°	4116.6	4152.1	4243.2	4295.1	4264.8	4231.8	4160.9	4005.2	3910.3	3816.6	3405.2
30°	4328.0	4350.8	4447.0	4469.8	4438.2	4396.4	4320.4	4164.7	4081.2	4009.0	3557.1
32.5°	4528.1	4577.4	4657.2	4652.1	4609.1	4588.8	4519.2	4353.4	4306.5	4298.9	3769.8
35°	4728.1	4766.0	4836.9	4854.7	4816.7	4812.9	4762.2	4639.5	4640.7	4690.1	4101.5
37.5°	4900.2	4934.4	5017.9	5057.2	5064.8	5083.8	5063.5	4982.5	5097.7	5233.1	4540.7
40°	5044.5	5092.6	5199.0	5267.3	5345.8	5415.4	5419.2	5437.0	5668.6	5901.5	5114.2
42.5°	5157.2	5224.3	5378.7	5505.3	5685.1	5773.7	5844.6	5942.0	6331.9	6680.1	5790.1
45°	5304.0	5381.3	5573.7	5772.4	6053.4	6199.0	6297.8	6558.5	7111.7	7586.4	6483.8
47.5°	5547.1	5587.6	5783.8	6073.7	6443.3	6650.9	6843.3	7238.3	7948.5	8373.8	7061.1
50°	5859.8	5886.3	6034.5	6437.0	6915.5	7188.9	7539.6	8004.2	8816.9	9027.0	7387.7
52.5°	6205.3	6214.2	6325.6	6837.0	7444.6	7789.0	8181.4	8754.8	9524.5	9492.8	7604.1
55°	6606.6	6594.0	6688.9	7271.2	8071.3	8464.9	8921.9	9523.2	10138.4	9823.2	7728.2
57.5°	7066.1	7032.0	7124.4	7847.2	8873.8	9344.7	9809.3	10186.5	10614.4	10100.5	7787.7
60°	7547.2	7478.8	7589.0	8494.1	9819.4	10266.3	10652.4	10753.7	11115.7	10320.7	7685.2
62.5°	7930.7	7932.0	8137.1	9182.7	10791.6	11182.8	11387.9	11479.0	11547.4	10272.6	7145.9
65°	8529.5	8549.8	8877.6	10138.4	11917.0	12256.3	12396.8	12100.6	11566.3	9675.1	6335.7
67.5°	9147.3	9211.8	9811.8	11455.0	13217.1	13490.5	13309.5	12220.8	11049.9	8311.8	4804.0
70°	9348.5	9454.9	10443.5	12361.3	13996.8	14138.6	13525.9	11660.0	9237.1	5557.2	2417.8
72.5°	8566.2	8738.4	10080.2	12030.9	13499.3	13376.6	12101.8	9778.9	5872.4	2110.2	738.0
75°	6040.8	6116.7	8377.6	9980.2	10857.5	10509.3	9205.5	6304.1	2415.3	592.4	253.2
77.5°	3119.1	3082.4	4982.5	6621.8	7743.4	7382.6	6028.1	3263.4	915.2	246.8	157.0
80°	1612.7	1639.3	2155.8	3469.8	4726.8	4349.6	3214.1	1512.7	487.4	136.7	120.3
82.5°	903.8	848.1	1239.3	1515.3	2210.2	1733.0	1233.0	1070.9	212.7	82.3	113.9
85°	164.6	172.2	679.8	819.0	767.1	487.4	397.5	715.2	62.0	45.6	79.8
87.5°	2.5	2.5	131.7	235.5	149.4	68.4	125.3	102.5	12.7	17.7	13.9
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°	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4
2.5°	2925.4	2877.3	2787.5	2698.9	2586.2	2493.8	2431.8	2367.2	2301.4	2306.4	2321.6
5°	2874.8	2791.3	2614.0	2426.7	2246.9	2084.9	1925.4	1782.4	1724.1	1671.0	1673.5
7.5°	2824.2	2706.5	2446.9	2153.3	1881.1	1605.1	1405.1	1240.6	1153.2	1087.4	1068.4
10°	2801.4	2645.7	2293.8	1890.0	1503.9	1202.6	945.6	811.4	707.6	674.7	683.6
12.5°	2811.5	2615.3	2155.8	1652.0	1192.5	838.0	658.3	589.9	567.1	563.3	560.8
15°	2830.5	2593.8	2020.3	1388.7	876.0	622.8	553.2	540.5	538.0	535.5	536.7
17.5°	2855.8	2574.8	1876.0	1141.8	672.2	544.3	524.1	517.7	516.5	516.5	516.5
20°	2881.1	2553.3	1715.3	921.6	560.8	513.9	501.3	497.5	496.2	496.2	495.0
22.5°	2910.3	2534.3	1552.0	724.1	516.5	492.4	481.0	478.5	477.2	476.0	476.0
25°	2952.0	2510.2	1378.5	592.4	488.6	472.2	460.8	458.2	457.0	451.9	453.2
27.5°	3007.7	2492.5	1200.1	511.4	463.3	446.9	439.3	435.5	432.9	429.1	430.4
30°	3083.7	2477.3	1010.2	467.1	434.2	420.3	412.7	410.1	407.6	403.8	403.8
32.5°	3215.3	2483.7	810.2	431.7	407.6	391.2	383.6	381.0	378.5	374.7	374.7
35°	3412.8	2520.4	648.1	401.3	376.0	359.5	351.9	351.9	348.1	343.1	341.8
37.5°	3735.6	2614.0	520.3	372.2	345.6	330.4	321.5	319.0	315.2	307.6	306.3
40°	4116.6	2759.6	438.0	343.1	317.7	302.5	295.0	287.4	277.2	269.6	268.4
42.5°	4595.1	2909.0	379.8	313.9	291.2	277.2	268.4	255.7	240.5	230.4	229.1
45°	5093.9	3045.7	340.5	287.4	265.8	254.4	244.3	224.1	205.1	192.4	191.1
47.5°	5466.1	3071.0	308.9	262.0	244.3	232.9	219.0	193.7	168.4	157.0	153.2
50°	5642.0	2948.2	276.0	236.7	222.8	210.1	192.4	163.3	135.4	121.5	119.0
52.5°	5704.1	2735.6	249.4	213.9	201.3	186.1	164.6	131.7	106.3	92.4	91.1
55°	5678.7	2467.2	225.3	192.4	176.0	158.2	136.7	105.1	78.5	67.1	64.6
57.5°	5545.8	2125.4	201.3	170.9	150.6	132.9	108.9	78.5	53.2	43.0	41.8
60°	5187.6	1659.6	177.2	146.8	127.9	108.9	86.1	55.7	32.9	24.1	24.1
62.5°	4582.5	1231.7	154.4	122.8	107.6	87.3	60.8	35.4	17.7	12.7	11.4
65°	3829.3	908.9	129.1	103.8	89.9	68.4	43.0	21.5	8.9	3.8	2.5
67.5°	2672.3	560.8	107.6	84.8	73.4	49.4	26.6	8.9	3.8	0.0	0.0
70°	1214.0	267.1	82.3	64.6	55.7	35.4	13.9	5.1	2.5	0.0	0.0
72.5°	377.2	140.5	58.2	46.8	38.0	22.8	7.6	3.8	2.5	0.0	0.0
75°	174.7	89.9	36.7	25.3	21.5	11.4	5.1	2.5	1.3	0.0	0.0
77.5°	130.4	69.6	21.5	13.9	11.4	7.6	3.8	2.5	1.3	0.0	0.0
80°	113.9	35.4	12.7	8.9	6.3	5.1	2.5	1.3	0.0	0.0	0.0
82.5°	102.5	17.7	7.6	5.1	3.8	2.5	1.3	1.3	0.0	0.0	0.0
85°	55.7	10.1	5.1	3.8	2.5	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.1	5.1	3.8	2.5	2.5	1.3	1.3	1.3	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)