

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: P652526

Luminaire Tested: **GALN-SA7B-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652526
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-SA7B-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA 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: 26096.2 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

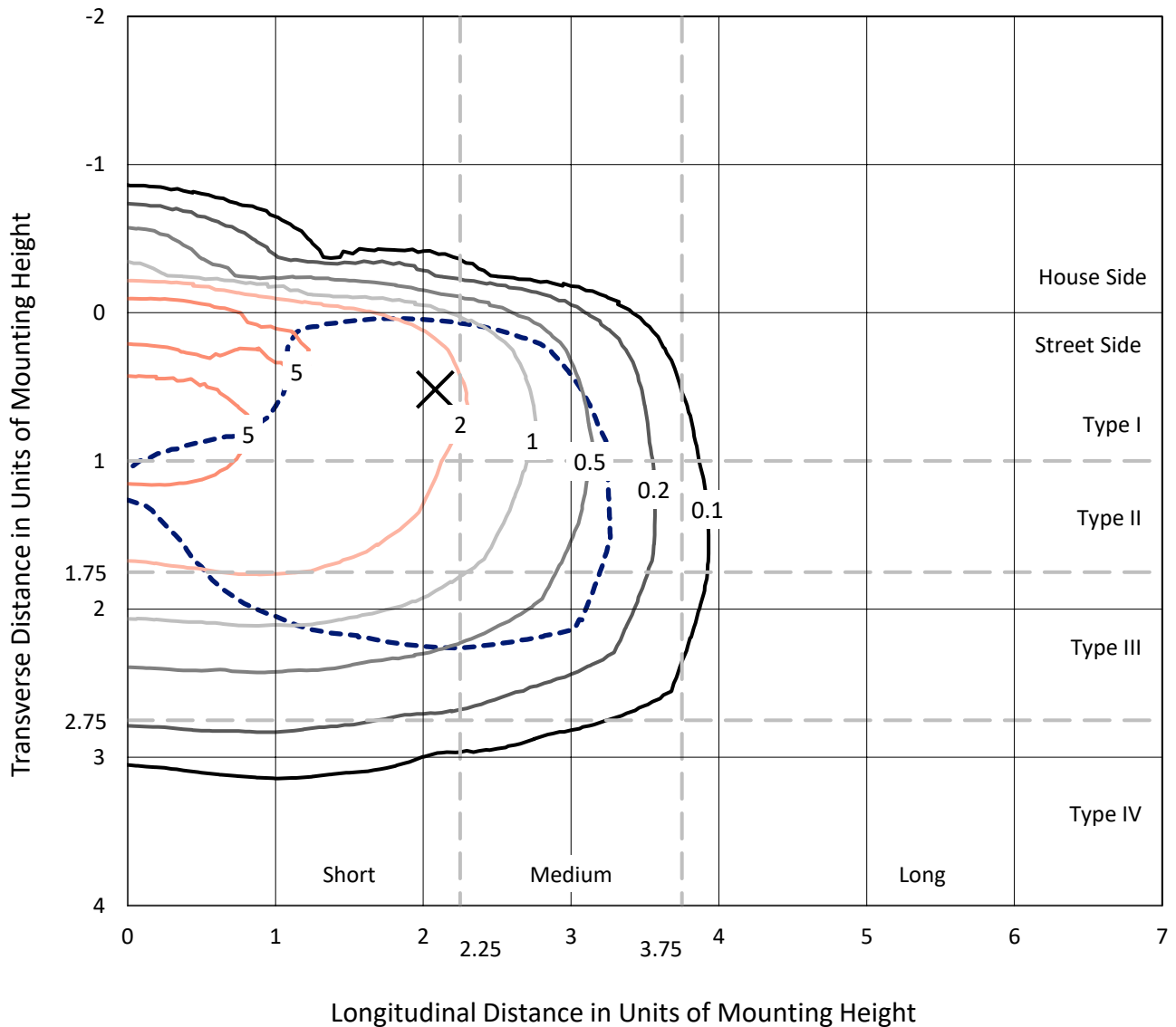
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

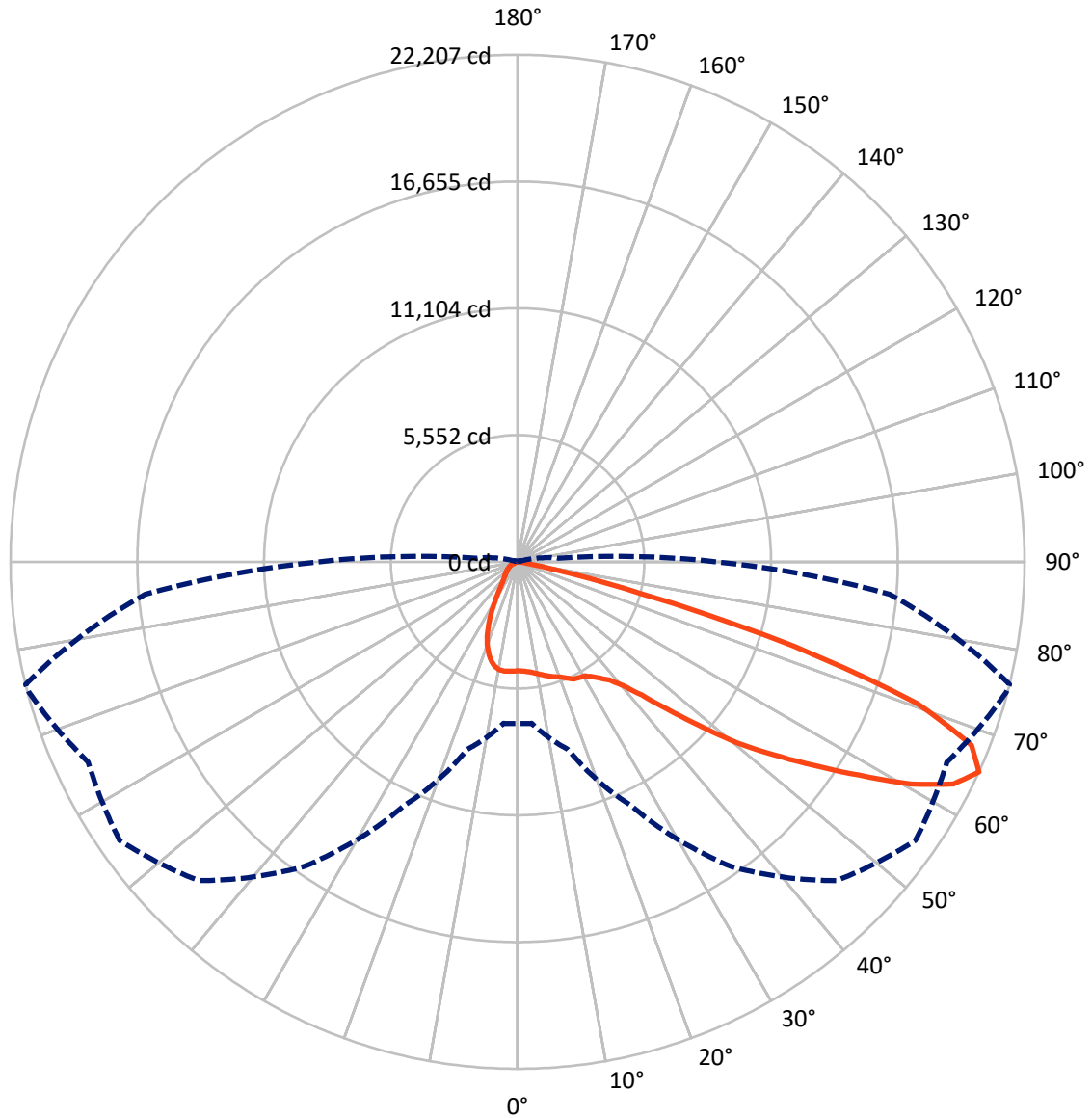
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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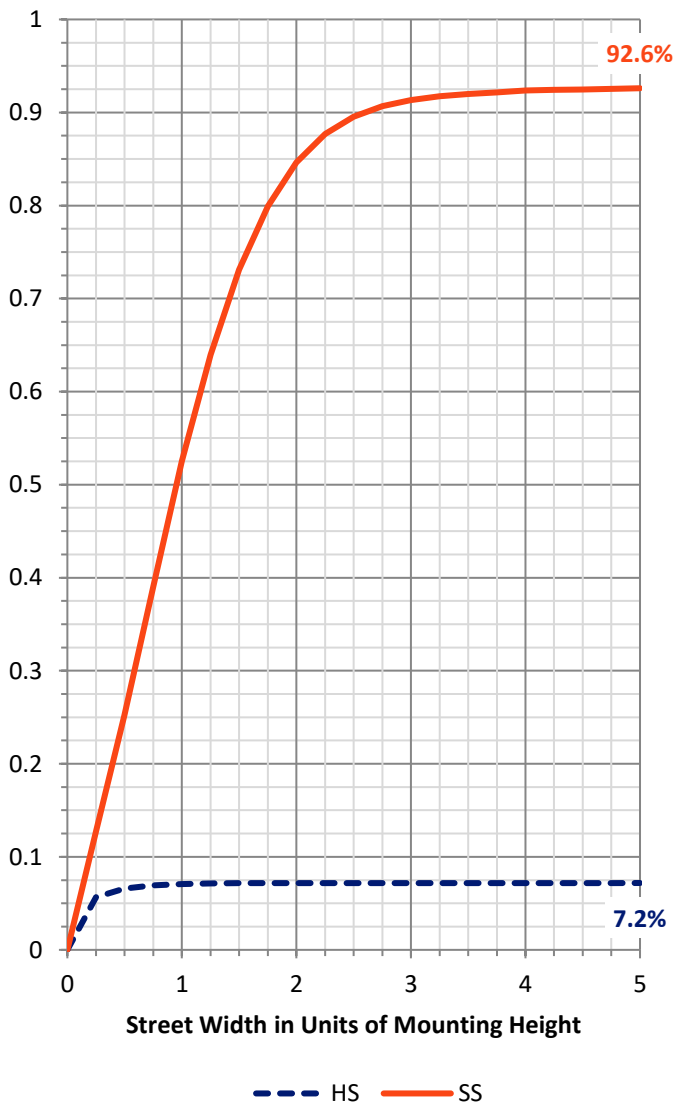
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1884.7	0.0	1884.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24211.6	0.0	24211.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	26096.2	0.0	26096.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	1.5
10°-20°	875.6	3.4
20°-30°	1411.0	5.4
30°-40°	2453.3	9.4
40°-50°	4053.9	15.5
50°-60°	6262.5	24.0
60°-70°	7647.4	29.3
70°-80°	2902.4	11.1
80°-90°	96.9	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°	26096.2	100.0
0°-180°	26096.2	100.0

Coefficient of Utilization



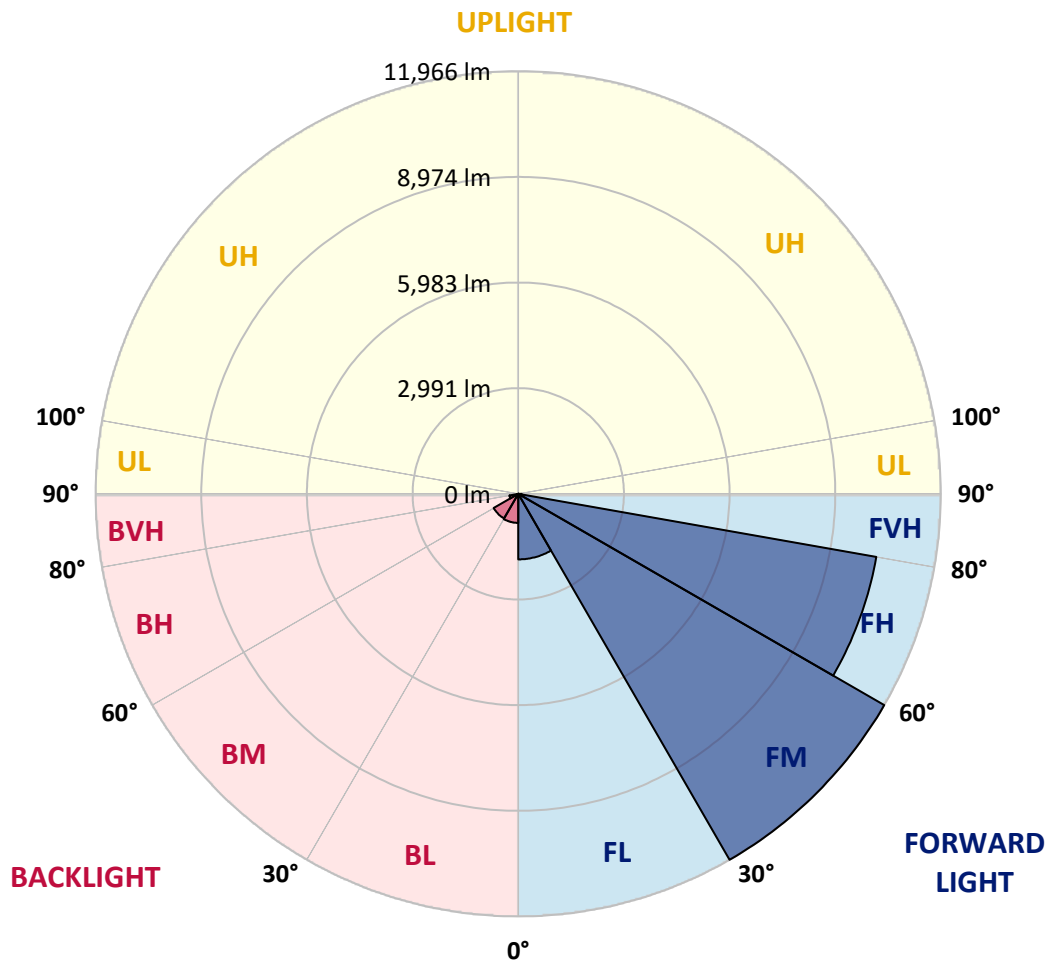
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.4	7.1			
FM (30°-60°)	11965.5	45.9			
FH (60°-80°)	10294.1	39.4			G4/12000
FVH (80°-90°)	95.5	0.4			G1/100
BL (0°-30°)	823.4	3.2	B2/1000		
BM (30°-60°)	804.2	3.1	B1/1000		
BH (60°-80°)	255.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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°	65°	75°	76°	85°
0°	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9
2.5°	4561.9	4563.8	4574.9	4602.5	4644.8	4679.8	4709.3	4757.3	4790.4	4794.1	4805.1
5°	4246.9	4224.8	4246.9	4318.7	4383.2	4480.8	4600.6	4720.4	4827.3	4834.7	4886.2
7.5°	3893.2	3911.6	3946.6	4020.2	4141.8	4291.1	4464.3	4678.1	4880.7	4899.2	5000.4
10°	3533.9	3574.4	3631.5	3743.9	3913.4	4106.9	4342.7	4648.5	4965.4	4991.3	5166.3
12.5°	3202.2	3220.6	3290.7	3441.7	3651.8	3924.4	4250.6	4632.0	5059.5	5090.7	5343.1
15°	2948.0	2971.9	3032.7	3169.1	3403.0	3753.1	4175.1	4626.4	5151.5	5195.8	5520.1
17.5°	2900.0	2914.8	2940.6	3032.7	3237.2	3616.8	4106.9	4624.6	5240.0	5293.4	5684.0
20°	3097.2	3084.3	3058.5	3049.3	3161.7	3511.8	4057.2	4639.3	5324.7	5385.5	5857.2
22.5°	3591.0	3607.6	3456.5	3277.7	3240.9	3495.2	4049.8	4709.3	5459.3	5531.1	6050.7
25°	4639.3	4512.2	4276.4	3848.9	3526.5	3596.5	4132.7	4875.2	5615.9	5695.1	6225.7
27.5°	5798.3	5759.6	5392.9	4689.1	4088.4	3810.2	4280.0	5002.3	5667.4	5748.5	6325.2
30°	6936.9	6983.0	6562.8	5785.3	4904.6	4206.3	4418.3	5050.2	5713.5	5798.3	6452.3
32.5°	7992.6	8047.9	7679.4	6909.2	5866.4	4891.8	4655.9	5236.3	5906.9	5993.6	6664.2
35°	8823.6	8830.9	8552.7	7939.2	6916.6	5724.5	5170.0	5562.4	6168.6	6269.9	6889.0
37.5°	9586.4	9575.3	9249.1	8720.4	7791.8	6551.8	5816.7	5938.3	6467.0	6572.1	7213.3
40°	10152.0	10159.4	10054.3	9556.9	8608.0	7316.4	6328.9	6290.2	6968.2	7132.2	7685.0
42.5°	10529.7	10597.9	10649.5	10397.0	9634.2	8257.9	7115.6	7043.7	7837.9	7974.2	8351.9
45°	10835.5	10957.1	11215.1	11202.2	10620.0	9413.1	8195.3	8047.9	9070.4	9216.0	9201.3
47.5°	11058.5	11181.9	11609.4	11867.4	11546.8	10533.4	9553.2	9426.1	10542.6	10701.1	10139.1
50°	11172.7	11320.1	11865.5	12364.8	12270.9	11613.0	11100.9	11108.3	12320.6	12473.5	11226.2
52.5°	10905.6	11097.2	12001.8	12900.9	13083.4	12646.7	12550.9	12794.1	13903.2	14034.1	12208.2
55°	10052.5	10293.8	11815.7	13357.9	14024.9	13866.4	14198.0	14568.4	15633.3	15718.1	13216.0
57.5°	9512.6	9768.8	11266.7	13746.6	15156.2	15399.4	15924.4	16195.3	17418.7	17634.3	14373.1
60°	9057.6	9258.4	10815.3	13829.6	16305.8	17275.0	17785.3	18065.4	19622.3	19762.3	15646.2
62.5°	8300.3	8530.6	10052.5	13251.0	16884.3	18776.6	19834.1	19708.8	21326.6	21424.2	16427.4
65°	7082.5	7102.7	8504.9	11797.3	16287.4	19751.2	21273.1	20748.1	22140.9	22207.3	16366.6
67.5°	5286.0	5481.3	6542.6	9273.1	13757.7	18918.5	21739.3	20775.6	21626.9	21442.6	15067.7
70°	3404.9	3554.2	4434.8	6430.2	9919.8	15788.1	20193.4	19351.4	18981.1	18572.1	12333.5
72.5°	1571.7	1763.2	2634.8	3673.9	5883.0	11246.4	16392.4	15721.7	13661.9	12652.3	7839.7
75°	685.4	733.3	1300.8	1938.3	2758.1	5947.5	10807.9	9759.6	6170.4	5636.1	3137.7
77.5°	418.2	449.6	681.7	1039.1	1083.4	2266.2	5822.2	4258.0	1907.0	1682.2	851.3
80°	283.8	318.7	495.6	543.5	370.4	631.9	2185.2	1136.8	385.1	368.5	182.4
82.5°	138.2	175.0	366.7	304.0	160.3	202.7	635.6	243.2	112.4	105.0	64.5
85°	20.3	35.0	206.4	199.0	71.8	47.9	112.4	60.8	38.7	36.8	29.5
87.5°	0.0	0.0	70.1	31.3	7.4	7.4	12.9	12.9	14.7	12.9	14.7
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°	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9	4773.9
2.5°	4810.7	4819.9	4784.9	4735.2	4681.7	4628.3	4552.8	4484.5	4444.0	4468.0	4409.0
5°	4897.3	4889.9	4797.8	4646.7	4445.9	4204.5	3965.0	3760.4	3694.2	3594.7	3583.6
7.5°	5017.1	4996.8	4801.4	4455.1	4001.8	3548.6	3106.4	2813.5	2645.8	2503.9	2507.6
10°	5184.7	5125.7	4759.1	4118.0	3371.7	2688.2	2124.4	1737.4	1569.8	1516.3	1473.9
12.5°	5357.9	5243.6	4641.1	3662.8	2625.5	1836.9	1291.6	1055.7	952.5	919.4	915.7
15°	5512.7	5332.1	4434.8	3115.7	1908.8	1173.6	880.7	803.3	790.5	792.2	790.5
17.5°	5665.6	5402.1	4149.2	2535.2	1297.1	842.0	757.2	738.8	744.4	751.7	749.9
20°	5792.7	5416.9	3784.4	1934.6	917.5	738.8	711.2	707.5	713.0	718.6	718.6
22.5°	5930.9	5427.9	3351.5	1339.5	749.9	687.3	672.5	672.5	679.9	687.3	689.1
25°	6034.1	5367.1	2833.7	961.8	661.4	637.5	630.2	631.9	639.3	643.0	641.2
27.5°	6050.7	5195.8	2284.7	737.0	600.6	576.7	569.4	576.7	567.5	573.0	569.4
30°	6065.4	4978.4	1728.3	620.9	545.4	508.6	497.5	486.4	479.0	469.9	468.0
32.5°	6111.5	4722.2	1262.1	558.3	493.8	453.2	427.5	396.1	372.1	364.8	363.0
35°	6131.7	4414.6	926.8	508.6	447.7	403.5	357.4	313.2	278.2	265.3	274.5
37.5°	6209.1	4116.1	718.6	471.6	407.2	351.9	292.9	237.7	204.5	197.1	200.8
40°	6367.5	3791.8	602.5	440.3	372.1	304.0	232.1	178.7	156.6	149.3	147.4
42.5°	6621.9	3469.4	536.1	410.8	337.2	256.1	182.4	140.0	121.6	116.1	116.1
45°	6931.4	3159.8	490.1	379.5	300.3	206.4	143.7	112.4	101.3	97.6	97.6
47.5°	7338.6	2889.0	451.4	348.3	259.8	164.0	116.1	97.6	90.2	92.1	93.9
50°	7751.2	2688.2	409.1	313.2	213.7	134.5	99.5	86.6	84.8	86.6	86.6
52.5°	8062.7	2570.3	351.9	265.3	167.7	112.4	88.5	81.1	79.2	75.5	75.5
55°	8482.7	2544.4	280.1	215.5	132.6	93.9	79.2	73.7	68.2	64.5	62.7
57.5°	9022.6	2574.0	215.5	167.7	103.2	77.4	70.1	60.8	53.4	46.1	46.1
60°	9357.9	2507.6	167.7	129.0	75.5	62.7	53.4	44.2	35.0	29.5	27.7
62.5°	9251.0	2227.6	132.6	95.8	53.4	46.1	35.0	29.5	20.3	14.7	12.9
65°	8700.1	1798.2	106.9	66.4	38.7	27.7	18.4	18.4	9.3	1.9	0.0
67.5°	7614.9	1332.1	84.8	44.2	22.1	12.9	9.3	5.6	0.0	0.0	0.0
70°	6198.1	961.8	66.4	27.7	12.9	9.3	3.7	1.9	0.0	0.0	0.0
72.5°	3935.5	550.9	51.6	16.6	9.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	1521.9	215.5	35.0	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	431.1	101.3	20.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	112.4	44.2	11.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.4	18.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.3	7.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	1.9	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)