

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: P458014

Luminaire Tested: **GALN-SA9B-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458014
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-SA9B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 29690 lumens
Efficiency: N/A
Efficacy: 81.6 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

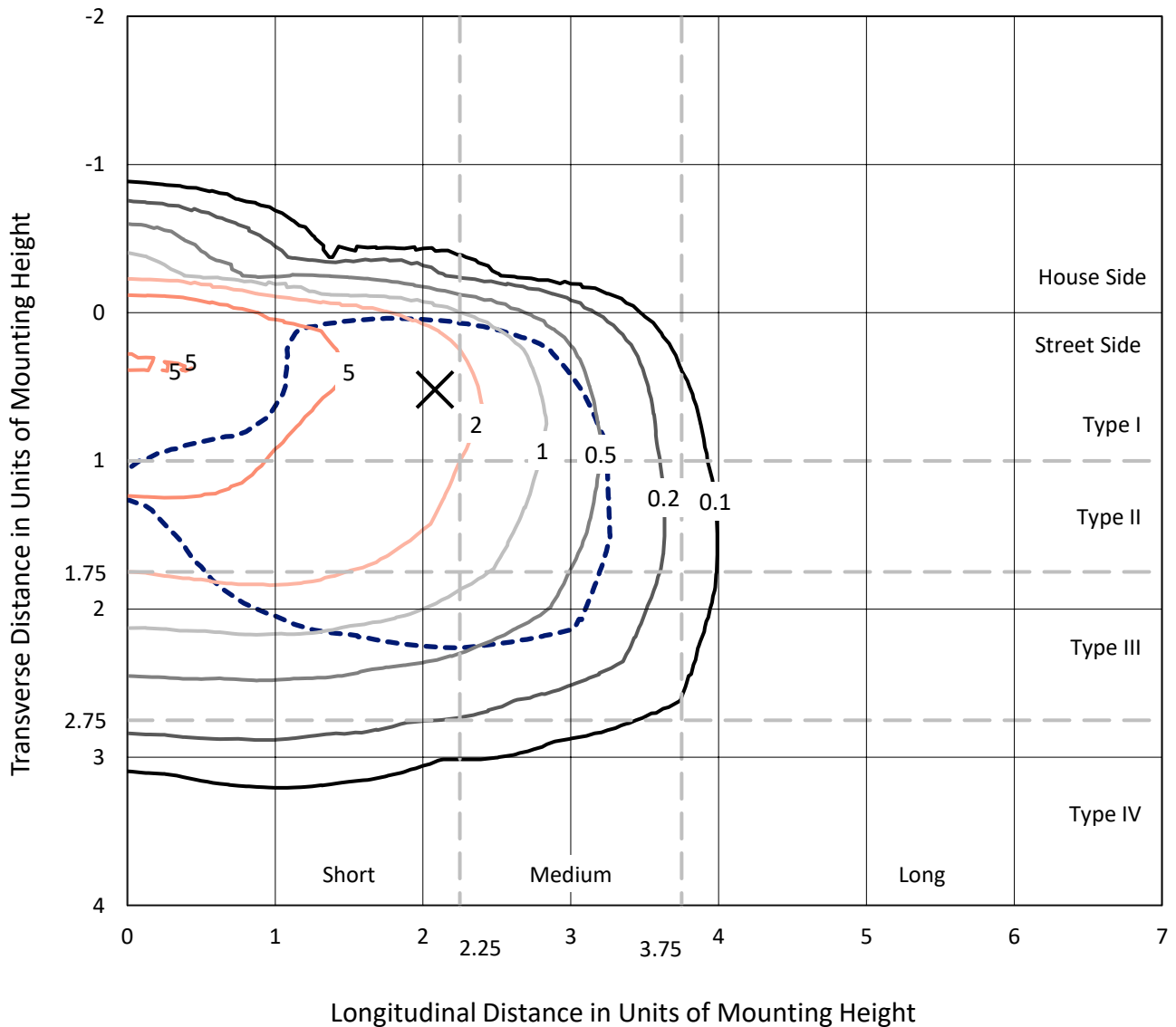
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

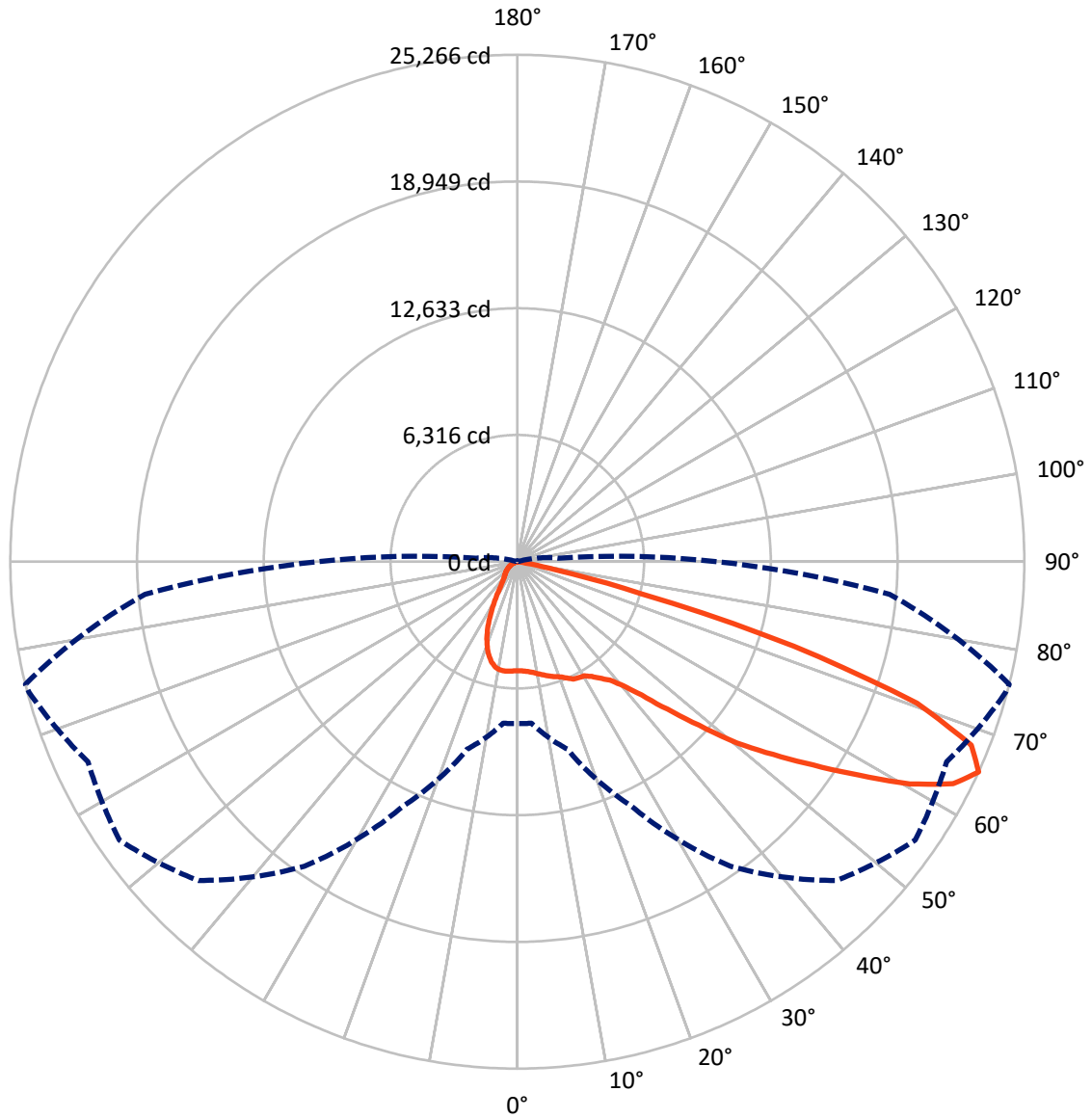
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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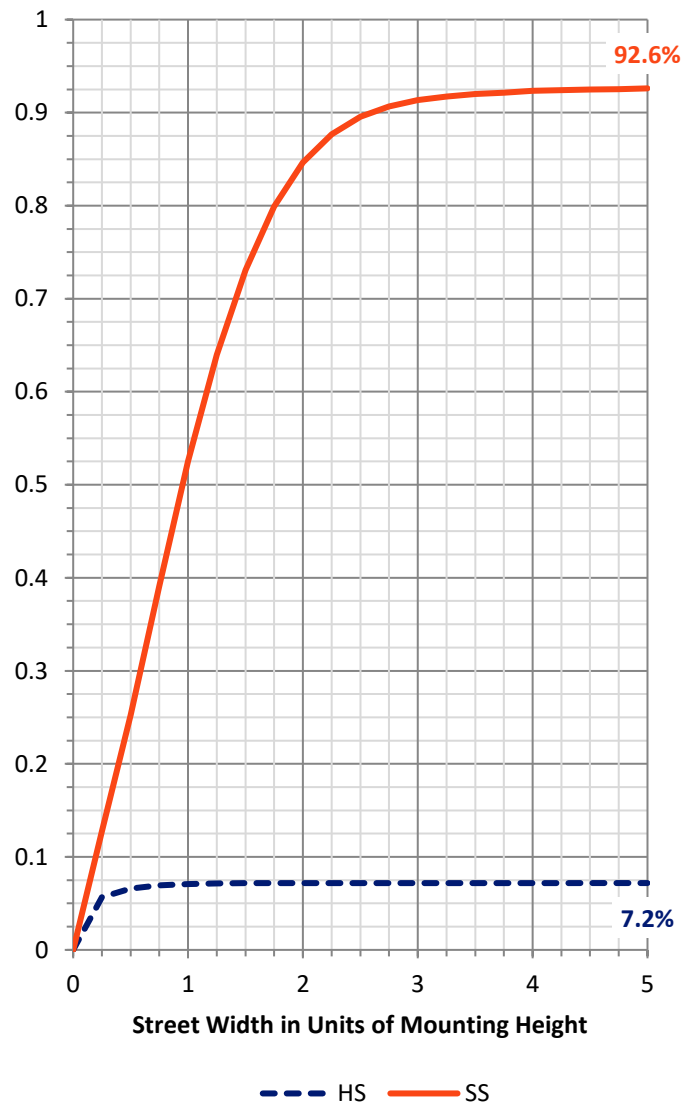
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2144.2	0.0	2144.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	27545.8	0.0	27545.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	29690.0	0.0	29690.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.4	1.5
10°-20°	996.2	3.4
20°-30°	1605.3	5.4
30°-40°	2791.2	9.4
40°-50°	4612.2	15.5
50°-60°	7124.9	24.0
60°-70°	8700.6	29.3
70°-80°	3302.1	11.1
80°-90°	110.2	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°	29690.0	100.0
0°-180°	29690.0	100.0



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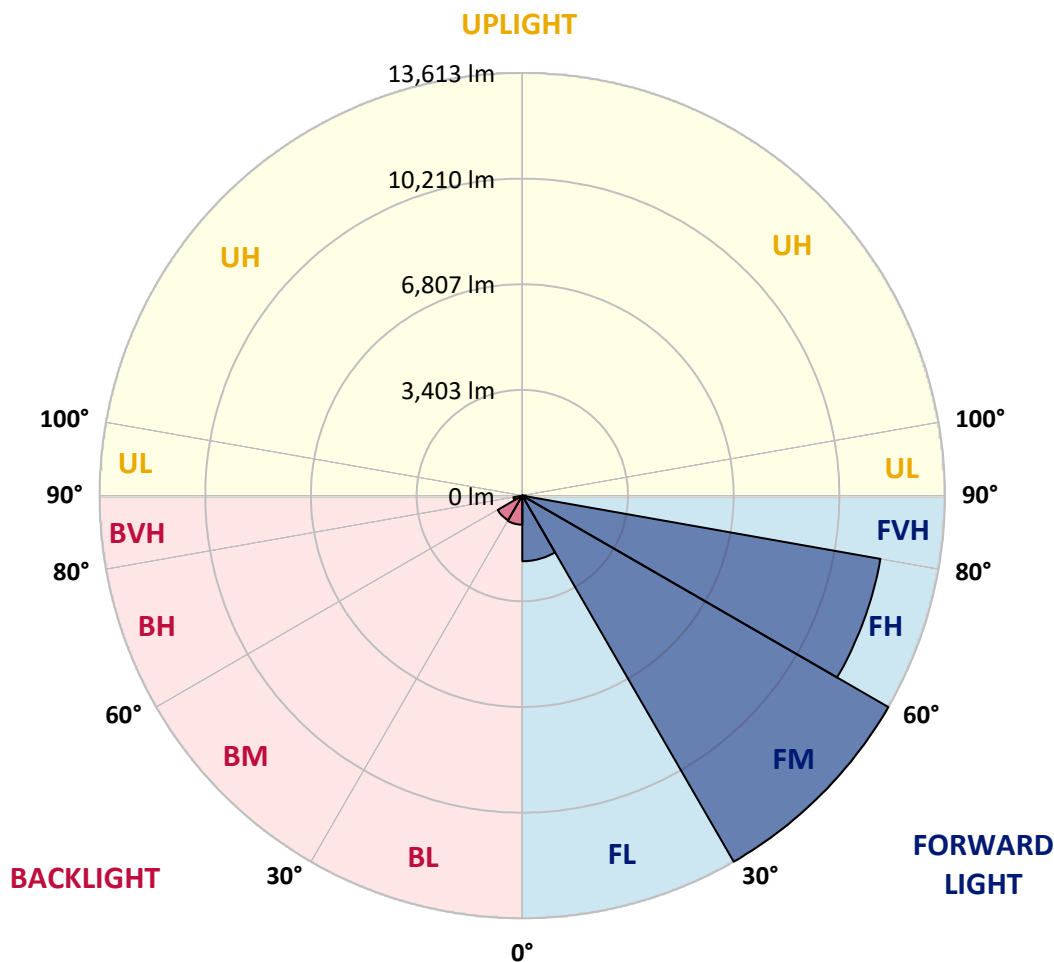
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.1	7.1			
FM (30°-60°)	13613.3	45.9			
FH (60°-80°)	11711.7	39.4			G4/12000
FVH (80°-90°)	108.7	0.4			G2/225
BL (0°-30°)	936.8	3.2	B2/1000		
BM (30°-60°)	915.0	3.1	B1/1000		
BH (60°-80°)	290.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2
2.5°	5190.2	5192.3	5204.9	5236.3	5284.5	5324.3	5357.9	5412.4	5450.1	5454.3	5466.9
5°	4831.7	4806.6	4831.7	4913.5	4986.9	5098.0	5234.2	5370.5	5492.0	5500.4	5559.1
7.5°	4429.3	4450.2	4490.1	4573.9	4712.3	4882.0	5079.1	5322.2	5552.8	5573.8	5689.1
10°	4020.5	4066.6	4131.6	4259.5	4452.3	4672.4	4940.7	5288.7	5649.3	5678.6	5877.7
12.5°	3643.2	3664.2	3743.8	3915.7	4154.7	4464.9	4835.9	5269.8	5756.2	5791.8	6079.0
15°	3353.9	3381.2	3450.3	3605.5	3871.7	4270.0	4750.0	5263.6	5861.0	5911.3	6280.2
17.5°	3299.4	3316.2	3345.5	3450.3	3683.0	4114.8	4672.4	5261.5	5961.6	6022.4	6466.8
20°	3523.7	3509.0	3479.7	3469.2	3597.1	3995.4	4615.8	5278.2	6058.0	6127.2	6663.8
22.5°	4085.5	4104.4	3932.5	3729.1	3687.2	3976.5	4607.4	5357.9	6211.0	6292.8	6883.9
25°	5278.2	5133.6	4865.3	4379.0	4012.1	4091.8	4701.8	5546.5	6389.2	6479.3	7083.1
27.5°	6596.7	6552.7	6135.6	5334.8	4651.5	4334.9	4869.5	5691.2	6447.9	6540.1	7196.2
30°	7892.2	7944.6	7466.7	6582.1	5580.1	4785.6	5026.7	5745.7	6500.3	6596.7	7340.9
32.5°	9093.3	9156.2	8737.0	7860.7	6674.3	5565.4	5297.1	5957.4	6720.4	6818.9	7581.9
35°	10038.7	10047.1	9730.6	9032.5	7869.1	6512.9	5881.9	6328.4	7018.1	7133.4	7837.7
37.5°	10906.5	10893.9	10522.9	9921.3	8864.8	7454.1	6617.7	6756.0	7357.7	7477.1	8206.6
40°	11550.0	11558.4	11439.0	10873.0	9793.4	8324.0	7200.4	7156.4	7927.8	8114.4	8743.2
42.5°	11979.8	12057.3	12116.0	11828.8	10961.0	9395.2	8095.5	8013.8	8917.2	9072.3	9502.1
45°	12327.7	12466.1	12759.6	12744.9	12082.5	10709.5	9323.9	9156.2	10319.6	10485.2	10468.4
47.5°	12581.4	12721.8	13208.1	13501.6	13136.9	11984.0	10868.8	10724.1	11994.4	12174.7	11535.4
50°	12711.3	12879.0	13499.5	14067.6	13960.7	13212.3	12629.6	12638.0	14017.3	14191.3	12772.1
52.5°	12407.4	12625.4	13654.6	14677.6	14885.1	14388.3	14279.3	14556.0	15817.9	15966.7	13889.4
55°	11436.9	11711.5	13442.9	15197.4	15956.3	15776.0	16153.3	16574.6	17786.2	17882.7	15036.0
57.5°	10822.7	11114.0	12818.2	15639.7	17243.3	17520.0	18117.4	18425.6	19817.5	20062.7	16352.4
60°	10304.9	10533.4	12304.7	15734.1	18551.4	19654.0	20234.6	20553.2	22324.5	22483.8	17800.9
62.5°	9443.4	9705.4	11436.9	15075.9	19209.6	21362.4	22565.6	22423.0	24263.5	24374.6	18689.7
65°	8057.8	8080.8	9676.0	13422.0	18530.4	22471.2	24202.7	23605.3	25190.0	25265.5	18620.5
67.5°	6014.0	6236.2	7443.6	10550.2	15652.3	21523.8	24733.0	23636.7	24605.2	24395.6	17142.7
70°	3873.8	4043.6	5045.5	7315.7	11285.9	17962.3	22974.3	22016.4	21595.0	21129.7	14031.9
72.5°	1788.1	2006.1	2997.6	4179.8	6693.2	12795.2	18649.9	17886.9	15543.3	14394.6	8919.3
75°	779.8	834.3	1479.9	2205.2	3138.0	6766.5	12296.3	11103.6	7020.2	6412.3	3569.8
77.5°	475.8	511.5	775.6	1182.3	1232.6	2578.3	6624.0	4844.3	2169.6	1913.8	968.4
80°	322.8	362.6	563.9	618.4	421.3	719.0	2486.1	1293.4	438.1	419.2	207.5
82.5°	157.2	199.1	417.1	345.9	182.4	230.6	723.2	276.7	127.9	119.5	73.4
85°	23.1	39.8	234.8	226.4	81.8	54.5	127.9	69.2	44.0	41.9	33.5
87.5°	0.0	0.0	79.7	35.6	8.4	8.4	14.7	14.7	16.8	14.7	16.8
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°	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2	5431.2
2.5°	5473.2	5483.7	5443.8	5387.2	5326.4	5265.6	5179.7	5102.1	5056.0	5083.3	5016.2
5°	5571.7	5563.3	5458.5	5286.6	5058.1	4783.5	4511.0	4278.3	4202.9	4089.7	4077.1
7.5°	5707.9	5684.9	5462.7	5068.6	4552.9	4037.3	3534.2	3200.9	3010.1	2848.7	2852.9
10°	5898.7	5831.6	5414.5	4685.0	3836.0	3058.4	2416.9	1976.7	1786.0	1725.2	1677.0
12.5°	6095.7	5965.8	5280.3	4167.2	2987.1	2089.9	1469.4	1201.1	1083.7	1046.0	1041.8
15°	6271.8	6066.4	5045.5	3544.7	2171.7	1335.3	1002.0	913.9	899.3	901.4	899.3
17.5°	6445.8	6146.1	4720.6	2884.4	1475.7	958.0	861.5	840.6	846.9	855.2	853.2
20°	6590.4	6162.8	4305.6	2201.0	1043.9	840.6	809.1	804.9	811.2	817.5	817.5
22.5°	6747.7	6175.4	3813.0	1523.9	853.2	781.9	765.1	765.1	773.5	781.9	784.0
25°	6865.0	6106.2	3224.0	1094.2	752.5	725.3	716.9	719.0	727.4	731.6	729.5
27.5°	6883.9	5911.3	2599.3	838.5	683.4	656.1	647.7	656.1	645.6	651.9	647.7
30°	6900.7	5663.9	1966.2	706.4	620.5	578.6	566.0	553.4	545.0	534.5	532.4
32.5°	6953.1	5372.6	1435.9	635.1	561.8	515.7	486.3	450.7	423.4	415.0	413.0
35°	6976.1	5022.5	1054.4	578.6	509.4	459.1	406.7	356.4	316.5	301.9	312.3
37.5°	7064.2	4682.9	817.5	536.6	463.3	400.4	333.3	270.4	232.7	224.3	228.5
40°	7244.5	4314.0	685.5	501.0	423.4	345.9	264.1	203.3	178.2	169.8	167.7
42.5°	7533.7	3947.1	610.0	467.5	383.6	291.4	207.5	159.3	138.3	132.1	132.1
45°	7885.9	3595.0	557.6	431.8	341.7	234.8	163.5	127.9	115.3	111.1	111.1
47.5°	8349.2	3286.8	513.6	396.2	295.6	186.6	132.1	111.1	102.7	104.8	106.9
50°	8818.7	3058.4	465.4	356.4	243.2	153.0	113.2	98.5	96.4	98.5	98.5
52.5°	9173.0	2924.2	400.4	301.9	190.8	127.9	100.6	92.2	90.1	85.9	85.9
55°	9650.9	2894.8	318.6	245.3	150.9	106.9	90.1	83.8	77.6	73.4	71.3
57.5°	10265.1	2928.4	245.3	190.8	117.4	88.0	79.7	69.2	60.8	52.4	52.4
60°	10646.6	2852.9	190.8	146.7	85.9	71.3	60.8	50.3	39.8	33.5	31.4
62.5°	10525.0	2534.3	150.9	109.0	60.8	52.4	39.8	33.5	23.1	16.8	14.7
65°	9898.2	2045.9	121.6	75.5	44.0	31.4	21.0	21.0	10.5	2.1	0.0
67.5°	8663.6	1515.6	96.4	50.3	25.2	14.7	10.5	6.3	0.0	0.0	0.0
70°	7051.6	1094.2	75.5	31.4	14.7	10.5	4.2	2.1	0.0	0.0	0.0
72.5°	4477.5	626.8	58.7	18.9	10.5	4.2	0.0	0.0	0.0	0.0	0.0
75°	1731.5	245.3	39.8	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	490.5	115.3	23.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	127.9	50.3	12.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	60.8	21.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.6	8.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	2.1	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)