

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: P456709

Luminaire Tested: **GALN-SA8A-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456709
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-SA8A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 24180 lumens
Efficiency: N/A
Efficacy: 99.1 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

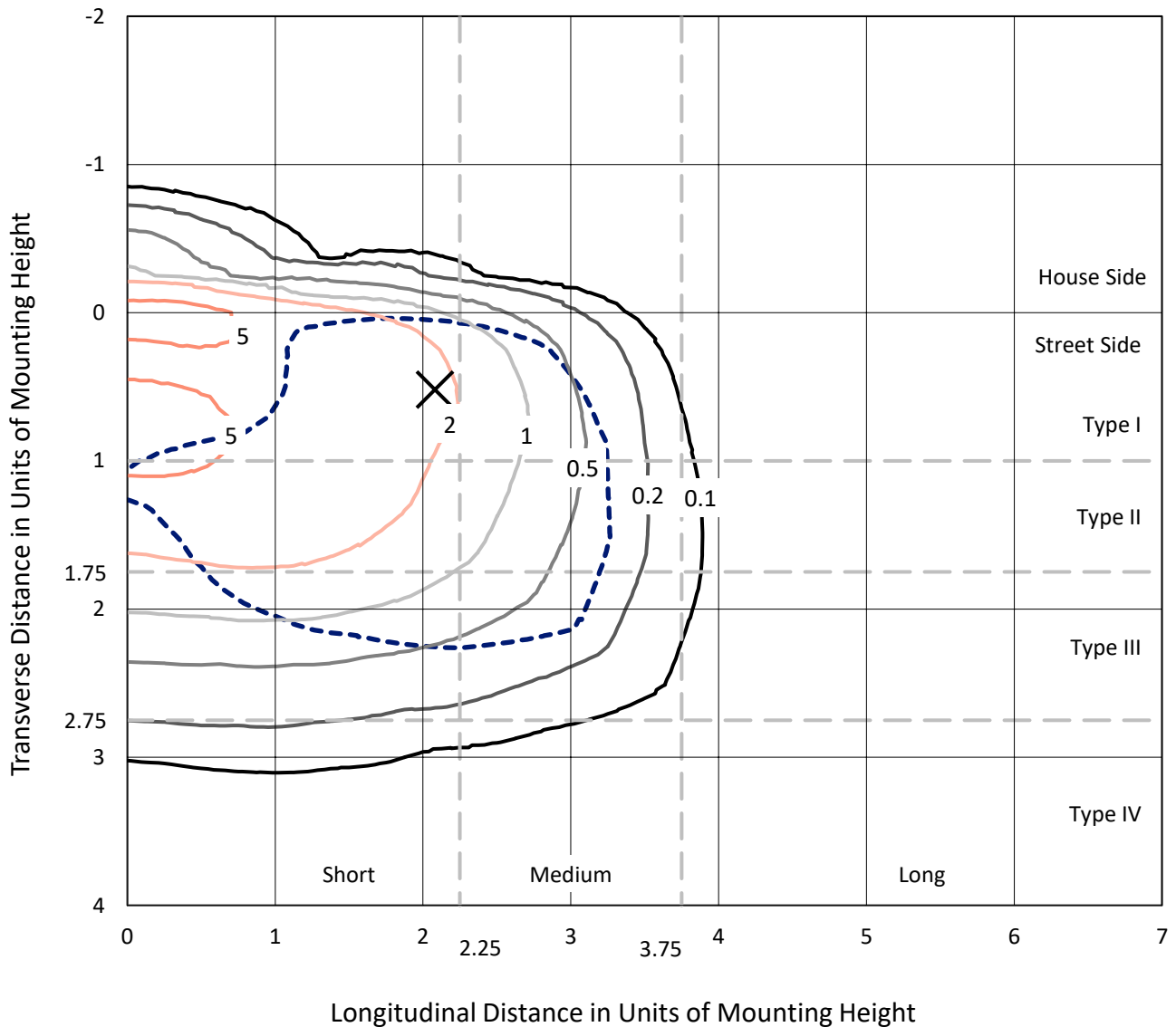
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456709
 CATALOG NUMBER: GALN-SA8A-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

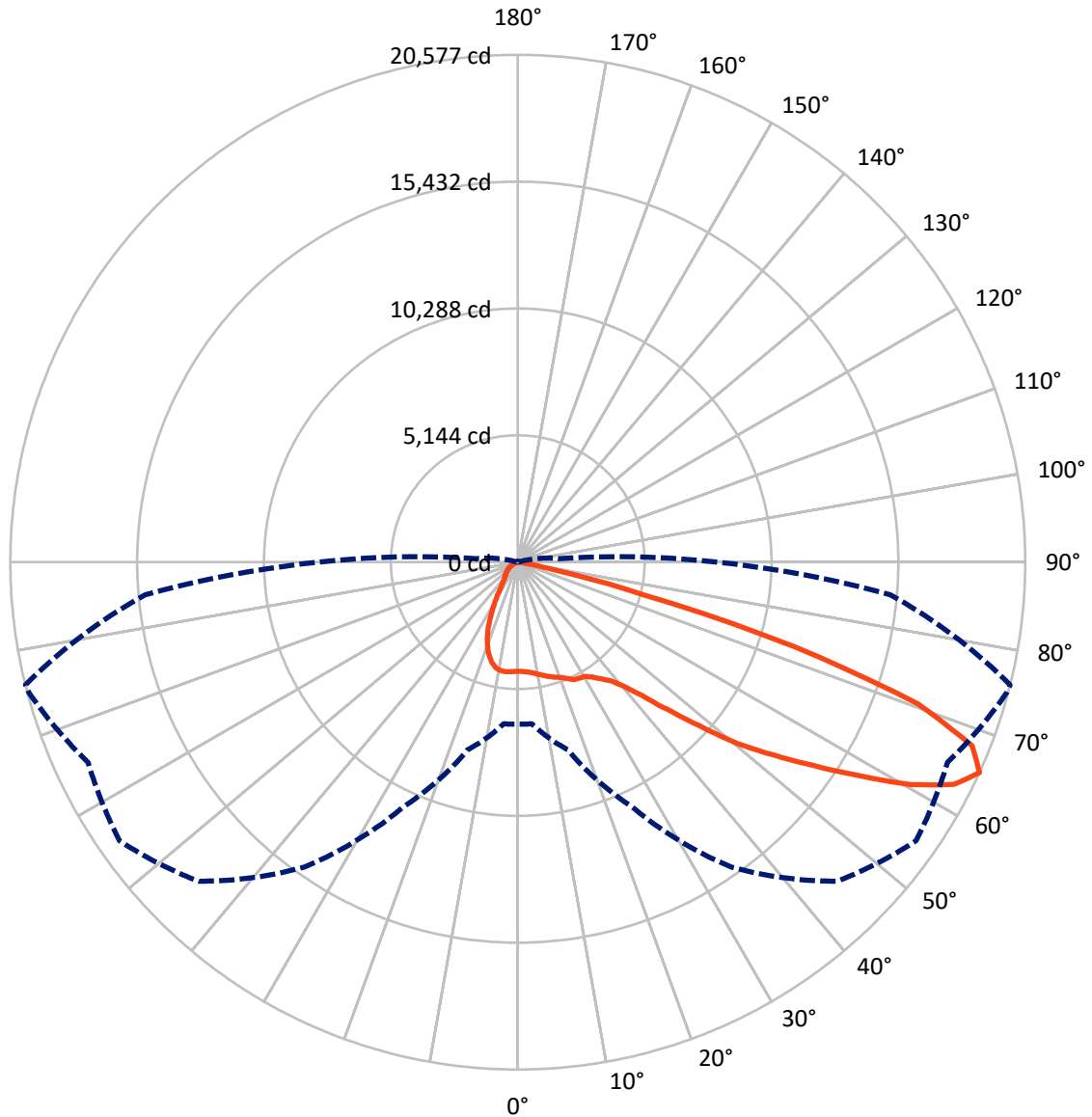
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

REPORT NUMBER: P456709
CATALOG NUMBER: GALN-SA8A-727-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456709

CATALOG NUMBER: GALN-SA8A-727-U-T3R-HSS

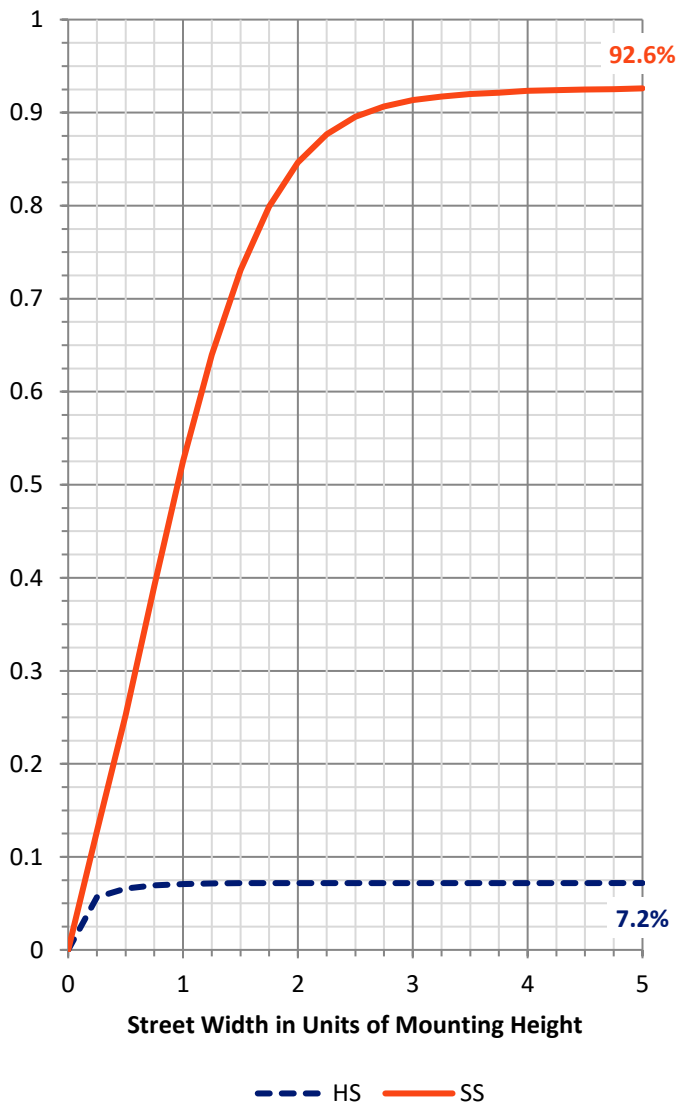
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1746.3	0.0	1746.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22433.7	0.0	22433.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	24180.0	0.0	24180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.4	1.5
10°-20°	811.3	3.4
20°-30°	1307.4	5.4
30°-40°	2273.2	9.4
40°-50°	3756.3	15.5
50°-60°	5802.6	24.0
60°-70°	7085.9	29.3
70°-80°	2689.3	11.1
80°-90°	89.7	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°	24180.0	100.0
0°-180°	24180.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456709

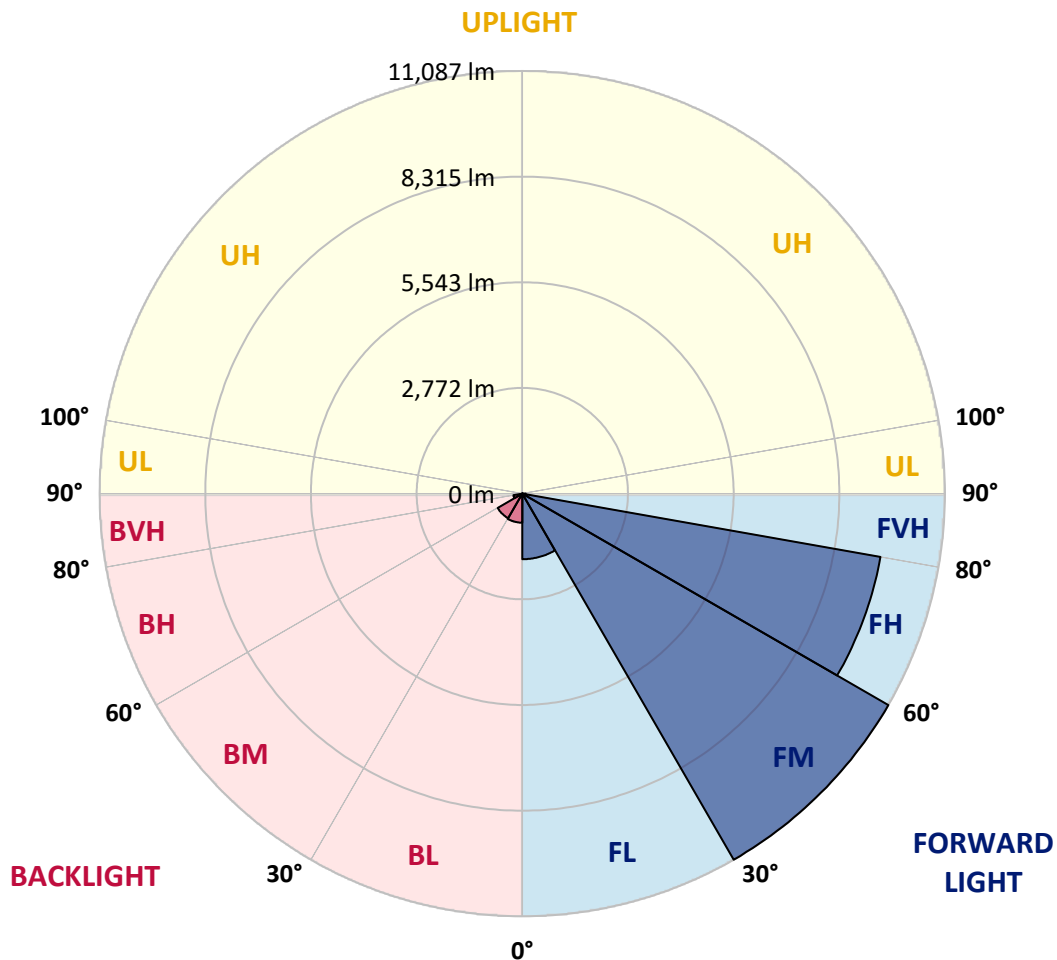
CATALOG NUMBER: GALN-SA8A-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.1	7.1			
FM (30°-60°)	11086.9	45.9			
FH (60°-80°)	9538.2	39.4			G4/12000
FVH (80°-90°)	88.5	0.4			G1/100
BL (0°-30°)	762.9	3.2	B2/1000		
BM (30°-60°)	745.2	3.1	B1/1000		
BH (60°-80°)	236.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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





REPORT NUMBER: P456709

CATALOG NUMBER: GALN-SA8A-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3
2.5°	4227.0	4228.7	4238.9	4264.5	4303.8	4336.2	4363.5	4407.9	4438.7	4442.1	4452.3
5°	3935.0	3914.6	3935.0	4001.6	4061.4	4151.9	4262.8	4373.8	4472.8	4479.6	4527.4
7.5°	3607.3	3624.3	3656.8	3725.1	3837.7	3976.0	4136.5	4334.5	4522.3	4539.4	4633.3
10°	3274.4	3311.9	3364.8	3469.0	3626.0	3805.3	4023.8	4307.2	4600.8	4624.7	4786.9
12.5°	2967.1	2984.1	3049.0	3189.0	3383.6	3636.3	3938.5	4291.8	4687.9	4716.9	4950.8
15°	2731.5	2753.7	2810.0	2936.3	3153.2	3477.5	3868.5	4286.7	4773.3	4814.2	5114.7
17.5°	2687.1	2700.8	2724.7	2810.0	2999.5	3351.2	3805.3	4285.0	4855.2	4904.7	5266.6
20°	2869.8	2857.8	2833.9	2825.4	2929.5	3253.9	3759.2	4298.7	4933.7	4990.1	5427.1
22.5°	3327.3	3342.7	3202.7	3037.1	3002.9	3238.5	3752.4	4363.5	5058.4	5124.9	5606.4
25°	4298.7	4180.9	3962.4	3566.3	3267.5	3332.4	3829.2	4517.2	5203.5	5276.9	5768.5
27.5°	5372.5	5336.6	4996.9	4344.8	3788.2	3530.4	3965.8	4635.0	5251.3	5326.4	5860.7
30°	6427.5	6470.2	6081.0	5360.5	4544.5	3897.5	4093.8	4679.4	5294.0	5372.5	5978.5
32.5°	7405.7	7456.9	7115.5	6401.9	5435.6	4532.6	4314.0	4851.8	5473.2	5553.4	6174.9
35°	8175.7	8182.5	7924.7	7356.2	6408.7	5304.2	4790.3	5154.0	5715.6	5809.5	6383.1
37.5°	8882.4	8872.2	8570.0	8080.1	7219.6	6070.7	5389.6	5502.2	5992.2	6089.5	6683.6
40°	9406.5	9413.4	9316.1	8855.1	7975.9	6779.2	5864.2	5828.3	6456.5	6608.5	7120.6
42.5°	9756.5	9819.7	9867.5	9633.6	8926.8	7651.6	6593.1	6526.5	7262.3	7388.7	7738.6
45°	10039.9	10152.6	10391.6	10379.6	9840.2	8722.0	7593.5	7456.9	8404.4	8539.3	8525.6
47.5°	10246.5	10360.9	10756.9	10995.9	10698.9	9759.9	8851.7	8733.9	9768.5	9915.3	9394.6
50°	10352.3	10488.9	10994.2	11456.9	11369.8	10760.3	10285.7	10292.6	11415.9	11557.6	10401.8
52.5°	10104.8	10282.3	11120.5	11953.6	12122.7	11718.1	11629.3	11854.6	12882.4	13003.6	11311.7
55°	9314.4	9538.0	10948.1	12377.0	12995.0	12848.2	13155.5	13498.6	14485.4	14563.9	12245.6
57.5°	8814.2	9051.4	10439.4	12737.2	14043.2	14268.6	14755.1	15006.1	16139.6	16339.4	13317.7
60°	8392.5	8578.6	10021.1	12814.1	15108.5	16006.5	16479.4	16738.9	18181.4	18311.2	14497.3
62.5°	7690.8	7904.2	9314.4	12278.0	15644.6	17397.8	18377.8	18261.7	19760.6	19851.0	15221.2
65°	6562.4	6581.2	7880.3	10931.0	15091.4	18300.9	19711.1	19224.5	20515.1	20576.6	15164.8
67.5°	4897.9	5078.8	6062.2	8592.2	12747.5	17529.3	20143.0	19250.1	20038.8	19868.1	13961.3
70°	3154.9	3293.1	4109.2	5958.0	9191.4	14628.8	18710.7	17930.5	17587.3	17208.3	11427.8
72.5°	1456.2	1633.8	2441.3	3404.1	5451.0	10420.6	15188.7	14567.3	12658.7	11723.2	7264.0
75°	635.1	679.5	1205.3	1795.9	2555.6	5510.8	10014.3	9042.9	5717.3	5222.3	2907.3
77.5°	387.5	416.6	631.7	962.8	1003.8	2099.8	5394.7	3945.3	1766.9	1558.7	788.7
80°	262.9	295.3	459.2	503.6	343.1	585.6	2024.7	1053.3	356.8	341.4	169.0
82.5°	128.0	162.2	339.7	281.7	148.5	187.8	589.0	225.3	104.1	97.3	59.8
85°	18.8	32.4	191.2	184.4	66.6	44.4	104.1	56.3	35.9	34.1	27.3
87.5°	0.0	0.0	64.9	29.0	6.8	6.8	12.0	12.0	13.7	12.0	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456709

CATALOG NUMBER: GALN-SA8A-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3	4423.3
2.5°	4457.4	4466.0	4433.5	4387.4	4337.9	4288.4	4218.4	4155.3	4117.7	4139.9	4085.3
5°	4537.7	4530.8	4445.5	4305.5	4119.4	3895.8	3673.8	3484.3	3422.9	3330.7	3320.5
7.5°	4648.6	4629.9	4448.9	4128.0	3708.0	3288.0	2878.3	2606.9	2451.5	2320.1	2323.5
10°	4804.0	4749.4	4409.6	3815.5	3124.1	2490.8	1968.4	1609.9	1454.5	1405.0	1365.7
12.5°	4964.5	4858.6	4300.4	3393.9	2432.7	1702.1	1196.7	978.2	882.6	851.9	848.5
15°	5107.9	4940.6	4109.2	2886.8	1768.6	1087.5	816.0	744.3	732.4	734.1	732.4
17.5°	5249.6	5005.4	3844.6	2349.1	1201.9	780.2	701.6	684.6	689.7	696.5	694.8
20°	5367.4	5019.1	3506.5	1792.5	850.2	684.6	659.0	655.6	660.7	665.8	665.8
22.5°	5495.4	5029.3	3105.4	1241.1	694.8	636.8	623.1	623.1	629.9	636.8	638.5
25°	5591.0	4973.0	2625.6	891.1	612.9	590.7	583.9	585.6	592.4	595.8	594.1
27.5°	5606.4	4814.2	2116.9	682.9	556.5	534.3	527.5	534.3	525.8	530.9	527.5
30°	5620.0	4612.8	1601.3	575.3	505.3	471.2	460.9	450.7	443.9	435.3	433.6
32.5°	5662.7	4375.5	1169.4	517.3	457.5	420.0	396.1	367.0	344.8	338.0	336.3
35°	5681.5	4090.4	858.7	471.2	414.8	373.9	331.2	290.2	257.8	245.8	254.4
37.5°	5753.2	3813.8	665.8	437.0	377.3	326.1	271.4	220.2	189.5	182.7	186.1
40°	5900.0	3513.4	558.2	408.0	344.8	281.7	215.1	165.6	145.1	138.3	136.6
42.5°	6135.6	3214.6	496.8	380.7	312.4	237.3	169.0	129.7	112.7	107.6	107.6
45°	6422.4	2927.8	454.1	351.7	278.3	191.2	133.2	104.1	93.9	90.5	90.5
47.5°	6799.7	2676.9	418.3	322.7	240.7	151.9	107.6	90.5	83.7	85.4	87.1
50°	7182.1	2490.8	379.0	290.2	198.0	124.6	92.2	80.2	78.5	80.2	80.2
52.5°	7470.6	2381.5	326.1	245.8	155.4	104.1	81.9	75.1	73.4	70.0	70.0
55°	7859.8	2357.6	259.5	199.7	122.9	87.1	73.4	68.3	63.2	59.8	58.0
57.5°	8360.0	2384.9	199.7	155.4	95.6	71.7	64.9	56.3	49.5	42.7	42.7
60°	8670.7	2323.5	155.4	119.5	70.0	58.0	49.5	41.0	32.4	27.3	25.6
62.5°	8571.7	2064.0	122.9	88.8	49.5	42.7	32.4	27.3	18.8	13.7	12.0
65°	8061.3	1666.2	99.0	61.5	35.9	25.6	17.1	17.1	8.5	1.7	0.0
67.5°	7055.8	1234.3	78.5	41.0	20.5	12.0	8.5	5.1	0.0	0.0	0.0
70°	5742.9	891.1	61.5	25.6	12.0	8.5	3.4	1.7	0.0	0.0	0.0
72.5°	3646.5	510.4	47.8	15.4	8.5	3.4	0.0	0.0	0.0	0.0	0.0
75°	1410.1	199.7	32.4	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	399.5	93.9	18.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.1	41.0	10.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.5	17.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.0	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	1.7	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)