

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: P652007

Luminaire Tested: **GALN-SA7A-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652007
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-SA7A-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 22035 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

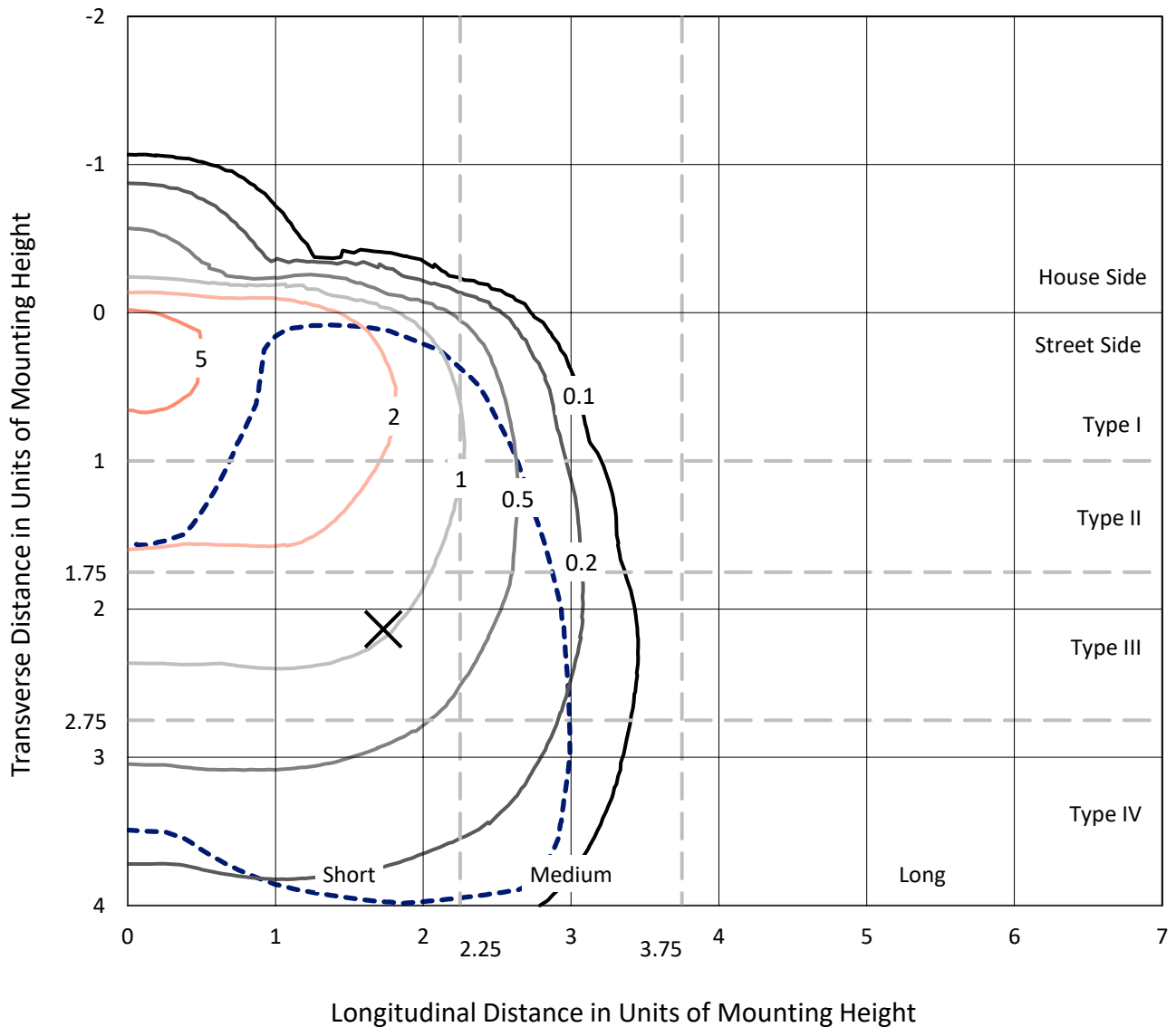
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652007
 CATALOG NUMBER: GALN-SA7A-840-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

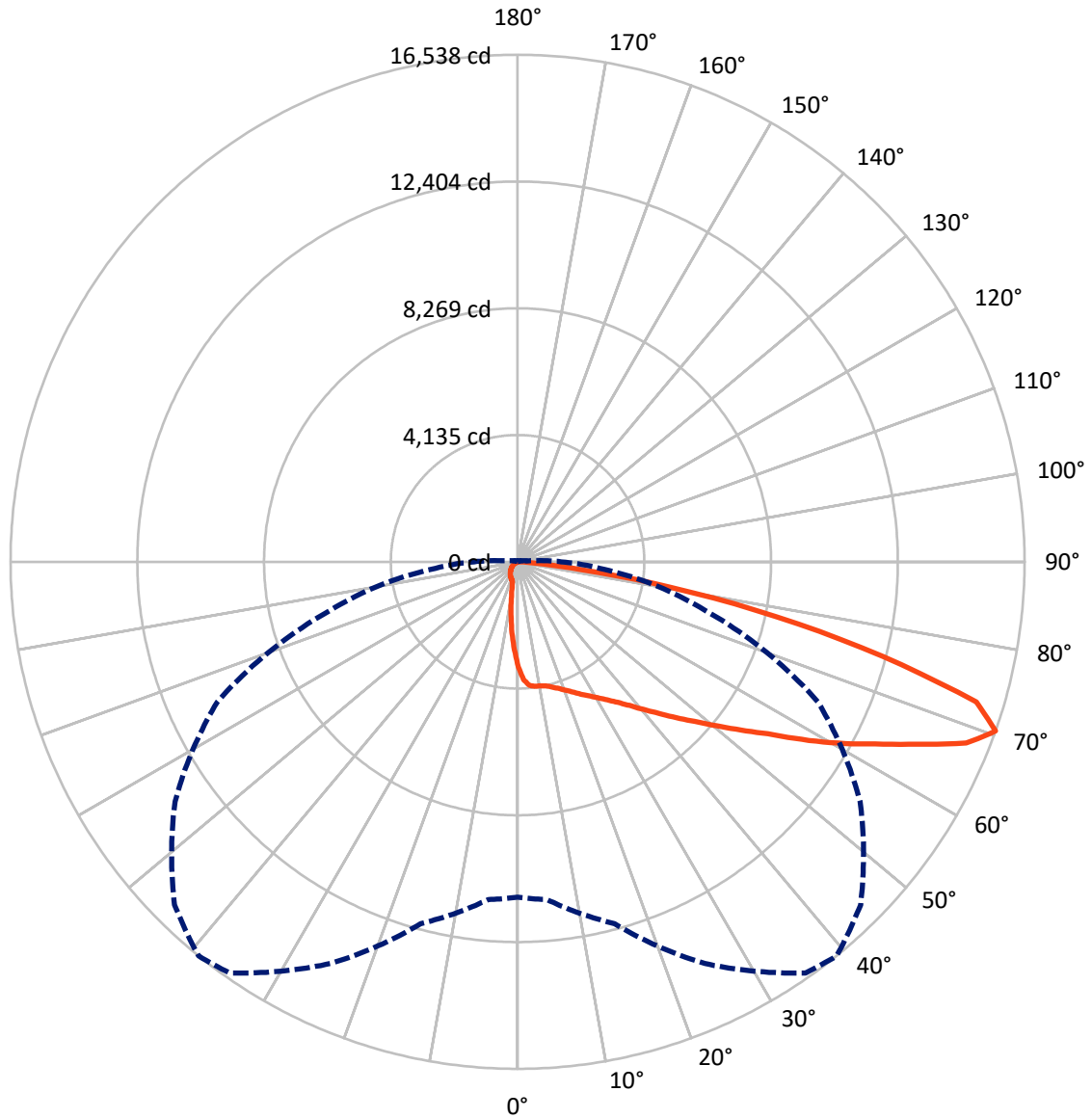
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P652007
CATALOG NUMBER: GALN-SA7A-840-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652007
 CATALOG NUMBER: GALN-SA7A-840-U-SL4-HSS

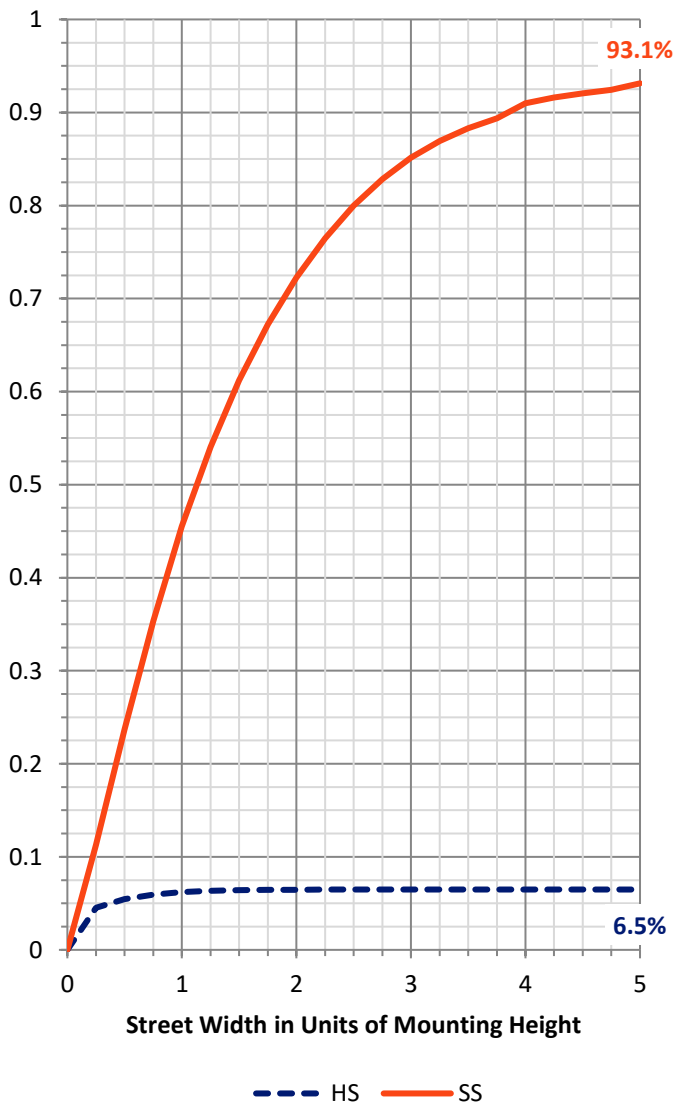
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.8	0.0	1436.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	20598.3	0.0	20598.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	22035.0	0.0	22035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	1.3
10°-20°	762.1	3.5
20°-30°	1276.7	5.8
30°-40°	1980.0	9.0
40°-50°	3137.7	14.2
50°-60°	4599.5	20.9
60°-70°	5895.4	26.8
70°-80°	3704.5	16.8
80°-90°	385.9	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°	22035.0	100.0
0°-180°	22035.0	100.0

Coefficient of Utilization



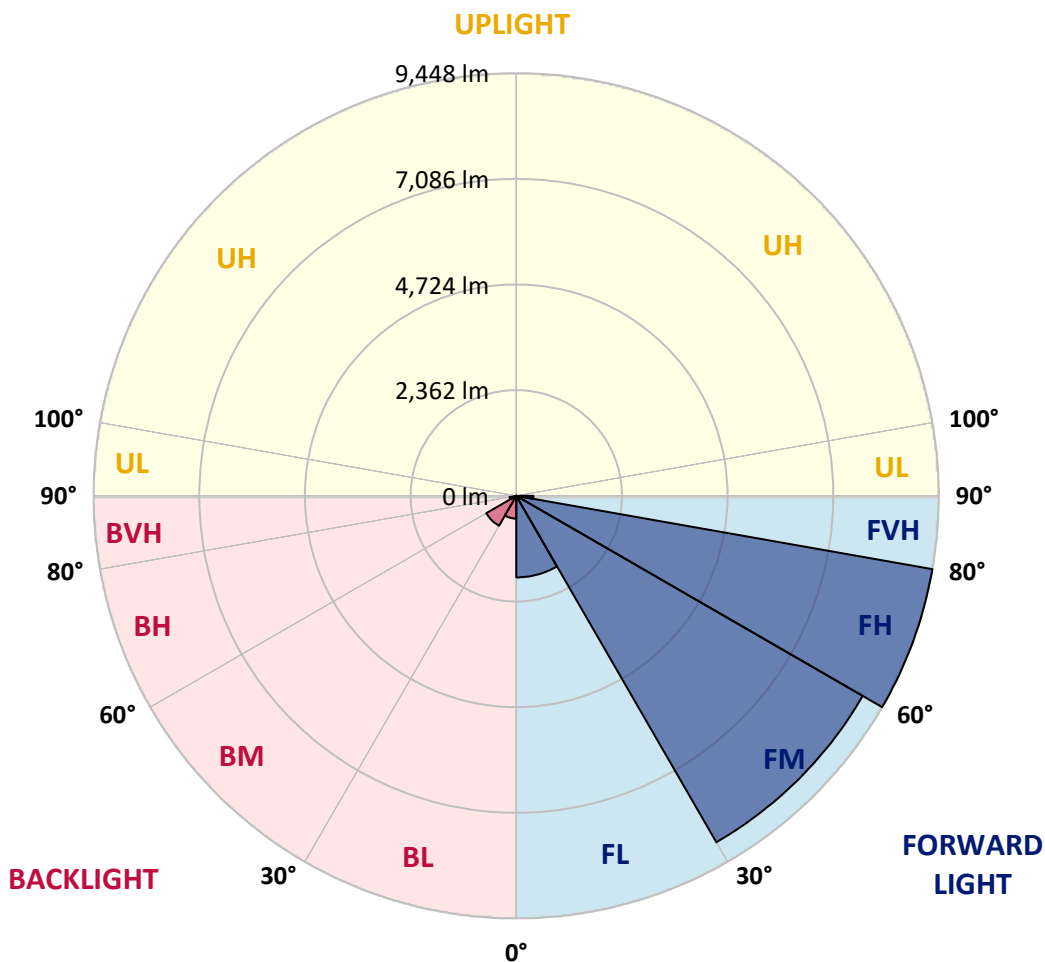
REPORT NUMBER: P652007
 CATALOG NUMBER: GALN-SA7A-840-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.3	8.3			
FM (30°-60°)	8944.0	40.6			
FH (60°-80°)	9447.9	42.9			G4/12000
FVH (80°-90°)	383.1	1.7			G3/500
BL (0°-30°)	508.8	2.3	B2/1000		
BM (30°-60°)	773.2	3.5	B1/1000		
BH (60°-80°)	151.9	0.7	B1/500		G1/500
BVH (80°-90°)	2.8	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 IV Short





REPORT NUMBER: P652007

CATALOG NUMBER: GALN-SA7A-840-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3
2.5°	3972.8	3959.4	3941.7	3920.9	3861.7	3851.4	3815.8	3740.3	3649.9	3575.9	3473.8
5°	4160.8	4168.2	4154.9	4117.9	4074.9	4049.8	4005.3	3888.4	3771.4	3621.9	3454.5
7.5°	4203.7	4218.5	4202.3	4166.7	4125.3	4098.6	4063.1	3962.4	3826.1	3655.9	3426.4
10°	4199.3	4217.1	4206.7	4174.1	4140.1	4114.9	4076.4	3996.4	3886.8	3707.7	3435.2
12.5°	4191.9	4215.6	4214.1	4197.9	4169.7	4150.4	4126.8	4055.7	3953.5	3783.2	3484.1
15°	4171.2	4200.8	4227.5	4240.7	4242.3	4242.3	4212.7	4137.1	4039.4	3882.5	3547.8
17.5°	4180.0	4214.1	4280.8	4319.2	4345.9	4342.9	4311.8	4230.4	4122.3	3984.6	3614.4
20°	4234.9	4280.8	4374.0	4451.0	4477.7	4468.8	4427.4	4332.6	4209.7	4072.0	3679.5
22.5°	4369.6	4411.0	4528.0	4618.4	4637.6	4613.9	4554.7	4425.8	4314.8	4166.7	3758.1
25°	4571.0	4619.9	4727.9	4796.1	4796.1	4782.7	4699.8	4548.8	4433.2	4298.5	3860.2
27.5°	4815.3	4856.8	4963.3	5024.0	4988.6	4950.0	4867.1	4685.0	4573.9	4464.4	3983.1
30°	5062.6	5089.2	5201.8	5228.4	5191.4	5142.5	5053.7	4871.6	4773.9	4689.4	4160.8
32.5°	5296.5	5354.2	5447.6	5441.6	5391.3	5367.6	5286.2	5092.2	5037.4	5028.5	4409.5
35°	5530.5	5574.9	5657.8	5678.5	5634.1	5629.7	5570.4	5426.8	5428.3	5486.0	4797.5
37.5°	5731.8	5771.9	5869.6	5915.4	5924.3	5946.5	5922.8	5828.1	5962.9	6121.3	5311.3
40°	5900.6	5956.9	6081.3	6161.3	6253.1	6334.5	6339.0	6359.6	6630.6	6903.1	5982.1
42.5°	6032.4	6110.9	6291.5	6439.6	6649.9	6753.6	6836.5	6950.4	7406.5	7813.7	6772.8
45°	6204.2	6294.5	6519.6	6752.1	7080.8	7251.1	7366.6	7671.6	8318.7	8873.9	7584.2
47.5°	6488.5	6535.9	6765.4	7104.5	7536.9	7779.7	8004.7	8466.8	9297.4	9795.0	8259.5
50°	6854.2	6885.4	7058.6	7529.5	8089.2	8409.0	8819.1	9362.6	10313.2	10559.0	8641.4
52.5°	7258.5	7268.8	7399.1	7997.3	8708.1	9110.8	9569.9	10240.6	11140.9	11103.9	8894.7
55°	7727.9	7713.1	7824.1	8505.2	9441.1	9901.5	10436.1	11139.5	11859.0	11490.3	9039.7
57.5°	8265.3	8225.4	8333.5	9178.9	10379.8	10930.6	11474.1	11915.3	12415.8	11814.6	9109.4
60°	8828.1	8748.1	8876.9	9935.6	11485.9	12008.6	12460.3	12578.7	13002.2	12072.3	8989.4
62.5°	9276.7	9278.2	9518.0	10741.1	12623.1	13080.7	13320.5	13427.2	13507.0	12016.0	8358.6
65°	9977.0	10000.8	10384.2	11859.0	13939.5	14336.3	14500.7	14154.2	13529.3	11317.1	7411.0
67.5°	10699.6	10775.1	11477.0	13399.0	15460.2	15780.0	15568.3	14294.8	12925.2	9722.4	5619.3
70°	10935.1	11059.5	12215.9	14459.2	16372.3	16538.1	15821.5	13638.8	10804.7	6500.3	2828.2
72.5°	10020.0	10221.3	11790.9	14072.7	15790.4	15646.7	14155.6	11438.5	6869.0	2468.3	863.3
75°	7066.0	7154.8	9799.4	11674.0	12700.1	12292.9	10767.7	7374.0	2825.2	693.0	296.1
77.5°	3648.5	3605.5	5828.1	7745.6	9057.6	8635.6	7051.2	3817.3	1070.6	288.7	183.6
80°	1886.4	1917.6	2521.7	4058.7	5529.0	5087.7	3759.5	1769.5	570.1	160.0	140.7
82.5°	1057.2	992.0	1449.6	1772.4	2585.3	2027.1	1442.2	1252.7	248.8	96.2	133.3
85°	192.5	201.3	795.2	958.0	897.3	570.1	464.9	836.6	72.6	53.3	93.3
87.5°	2.9	2.9	154.0	275.4	174.8	80.0	146.6	119.9	14.8	20.7	16.3
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: P652007

CATALOG NUMBER: GALN-SA7A-840-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3	3438.3
2.5°	3421.9	3365.7	3260.6	3156.9	3025.1	2917.0	2844.4	2768.9	2692.0	2697.8	2715.7
5°	3362.7	3265.0	3057.7	2838.5	2628.3	2438.7	2252.2	2084.8	2016.7	1954.6	1957.5
7.5°	3303.4	3165.8	2862.3	2518.7	2200.3	1877.5	1643.6	1451.1	1349.0	1271.9	1249.7
10°	3276.8	3094.7	2683.0	2210.7	1759.1	1406.7	1106.1	949.2	827.7	789.2	799.6
12.5°	3288.6	3059.1	2521.7	1932.4	1394.8	980.3	769.9	690.0	663.4	658.9	656.0
15°	3310.8	3034.0	2363.2	1624.3	1024.7	728.5	647.1	632.3	629.3	626.4	627.8
17.5°	3340.5	3011.8	2194.4	1335.6	786.3	636.7	613.0	605.6	604.1	604.1	604.1
20°	3370.1	2986.6	2006.4	1078.0	656.0	601.1	586.3	581.9	580.5	580.5	578.9
22.5°	3404.2	2964.4	1815.4	847.0	604.1	576.0	562.7	559.7	558.3	556.7	556.7
25°	3453.1	2936.3	1612.5	693.0	571.5	552.3	539.0	536.1	534.5	528.7	530.1
27.5°	3518.2	2915.5	1403.7	598.2	541.9	522.7	513.8	509.4	506.4	502.0	503.4
30°	3607.0	2897.7	1181.6	546.4	507.9	491.6	482.7	479.8	476.8	472.4	472.4
32.5°	3761.0	2905.2	947.6	504.9	476.8	457.5	448.7	445.7	442.7	438.3	438.3
35°	3992.0	2948.1	758.2	469.4	439.8	420.5	411.7	411.7	407.2	401.2	399.8
37.5°	4369.6	3057.7	608.5	435.3	404.3	386.4	376.1	373.2	368.7	359.8	358.4
40°	4815.3	3227.9	512.3	401.2	371.6	353.9	345.0	336.1	324.3	315.4	313.9
42.5°	5375.0	3402.7	444.2	367.2	340.6	324.3	313.9	299.1	281.3	269.5	268.0
45°	5958.4	3562.6	398.3	336.1	310.9	297.6	285.8	262.1	239.9	225.1	223.6
47.5°	6393.7	3592.2	361.3	306.5	285.8	272.5	256.2	226.6	197.0	183.6	179.1
50°	6599.6	3448.6	322.8	276.9	260.6	245.8	225.1	191.0	158.4	142.1	139.2
52.5°	6672.1	3199.8	291.7	250.3	235.4	217.7	192.5	154.0	124.4	108.1	106.6
55°	6642.5	2885.9	263.6	225.1	205.8	185.1	160.0	122.9	91.8	78.5	75.5
57.5°	6487.1	2486.1	235.4	199.9	176.2	155.5	127.3	91.8	62.1	50.4	48.9
60°	6068.0	1941.2	207.3	171.7	149.5	127.3	100.7	65.2	38.5	28.2	28.2
62.5°	5360.2	1440.7	180.6	143.6	125.9	102.2	71.1	41.5	20.7	14.8	13.3
65°	4479.2	1063.2	151.0	121.4	105.1	80.0	50.4	25.1	10.3	4.5	2.9
67.5°	3125.8	656.0	125.9	99.2	85.9	57.8	31.1	10.3	4.5	0.0	0.0
70°	1420.0	312.4	96.2	75.5	65.2	41.5	16.3	5.9	2.9	0.0	0.0
72.5°	441.3	164.3	68.1	54.7	44.4	26.7	8.9	4.5	2.9	0.0	0.0
75°	204.4	105.1	43.0	29.6	25.1	13.3	5.9	2.9	1.5	0.0	0.0
77.5°	152.5	81.4	25.1	16.3	13.3	8.9	4.5	2.9	1.5	0.0	0.0
80°	133.3	41.5	14.8	10.3	7.4	5.9	2.9	1.5	0.0	0.0	0.0
82.5°	119.9	20.7	8.9	5.9	4.5	2.9	1.5	1.5	0.0	0.0	0.0
85°	65.2	11.9	5.9	4.5	2.9	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	11.9	5.9	4.5	2.9	2.9	1.5	1.5	1.5	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)