

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: P652086

Luminaire Tested: **GALN-SA8A-840-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652086  
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-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 24315 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

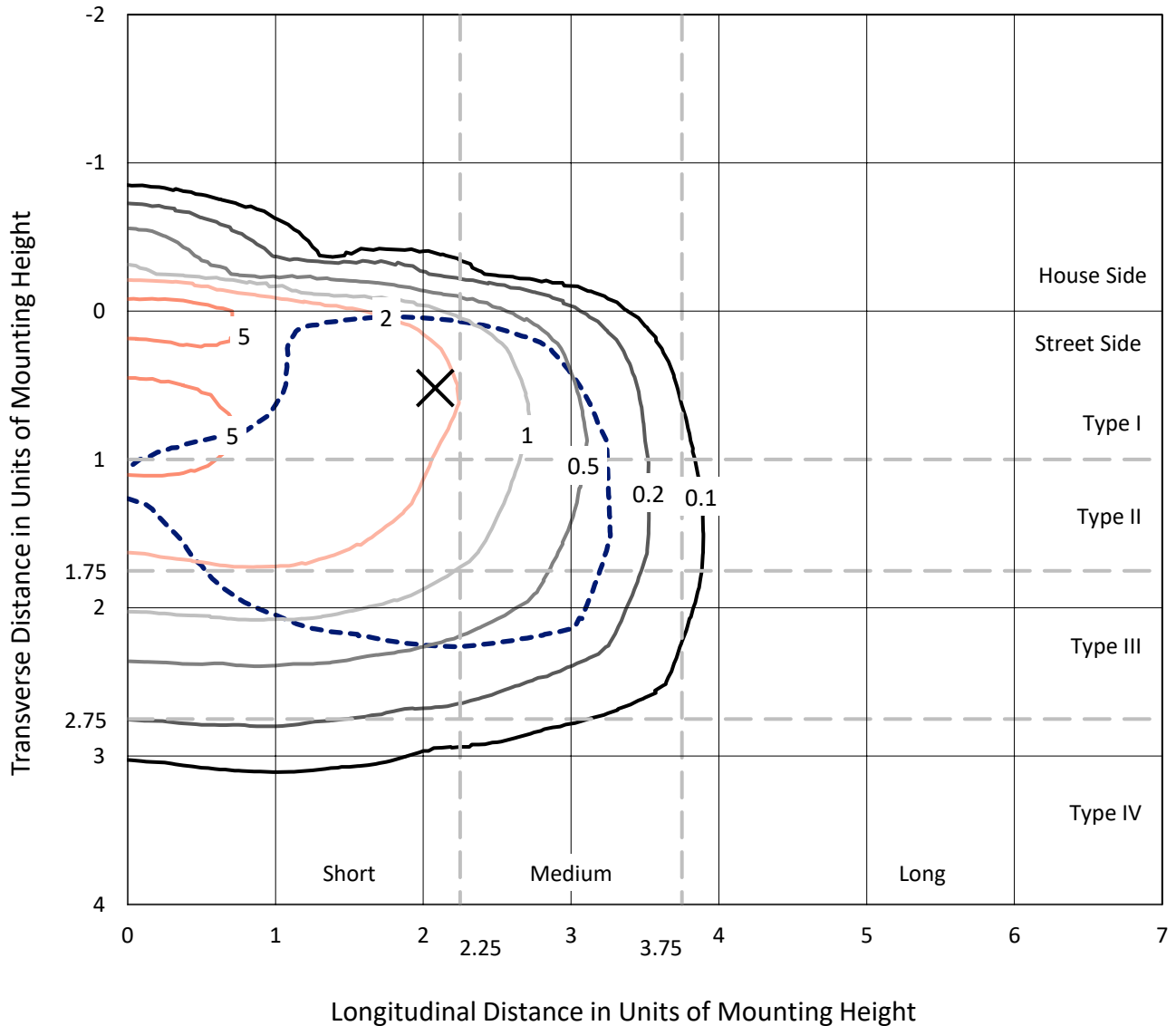
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

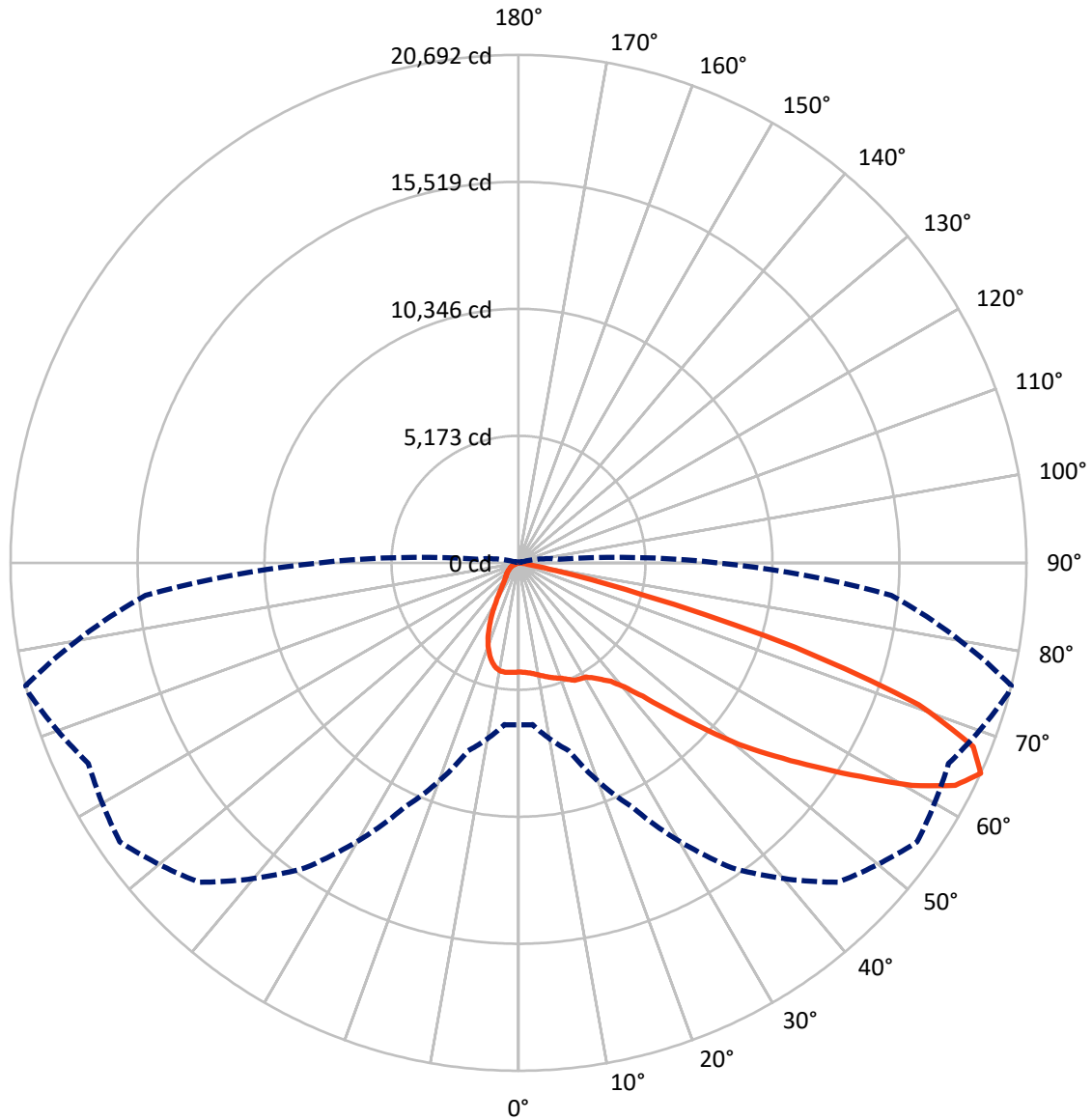
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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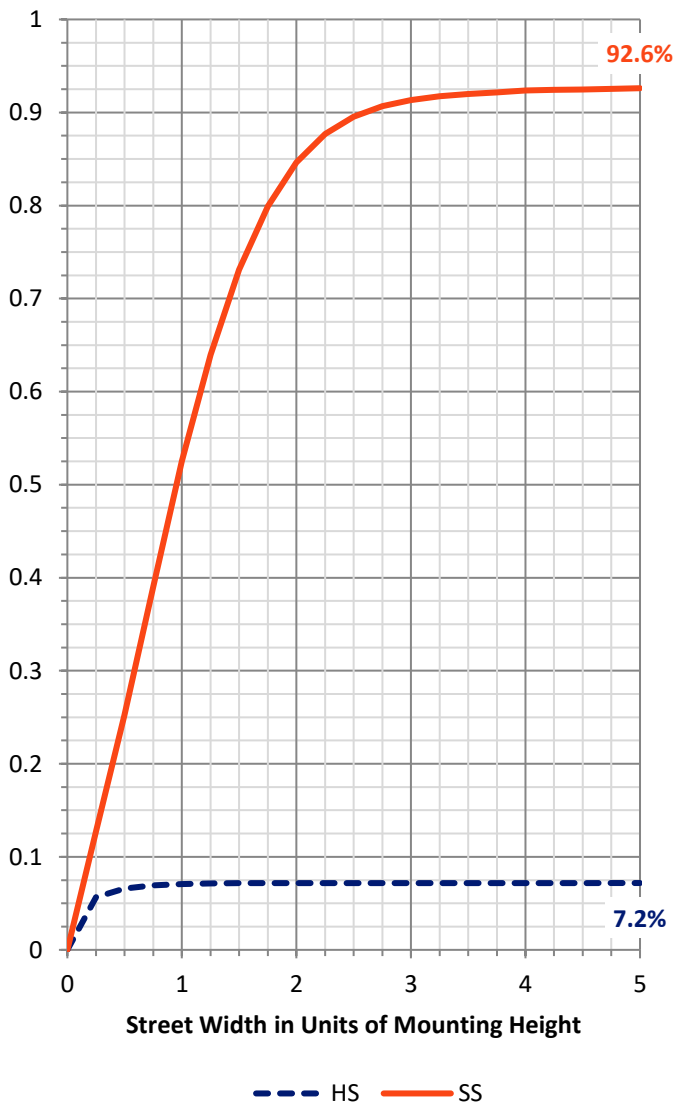
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1756.0	0.0	1756.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	22559.0	0.0	22559.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	24315.0	0.0	24315.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.4	1.5
10°-20°	815.8	3.4
20°-30°	1314.7	5.4
30°-40°	2285.9	9.4
40°-50°	3777.2	15.5
50°-60°	5835.0	24.0
60°-70°	7125.4	29.3
70°-80°	2704.3	11.1
80°-90°	90.2	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°	24315.0	100.0
0°-180°	24315.0	100.0

**Coefficient of Utilization**

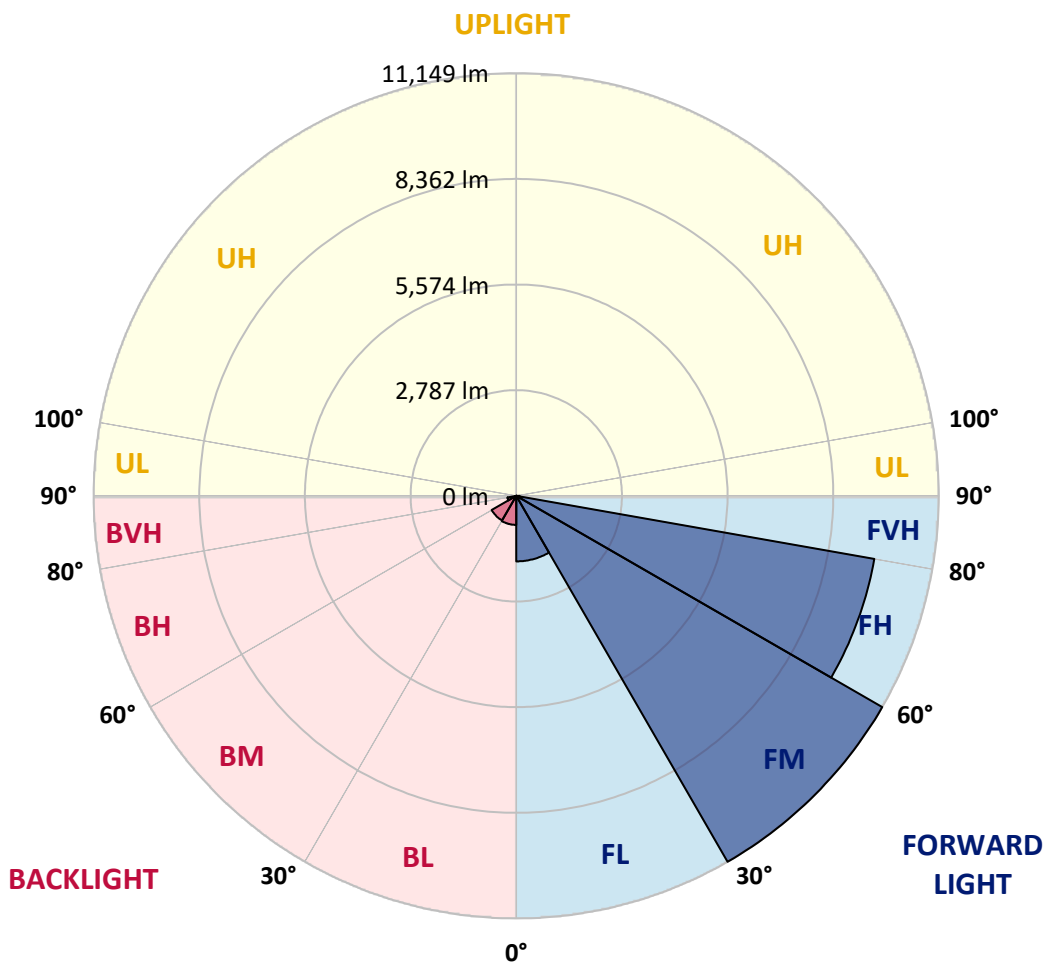


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.7	7.1			
FM (30°-60°)	11148.8	45.9			
FH (60°-80°)	9591.4	39.4			G4/12000
FVH (80°-90°)	89.0	0.4			G1/100
BL (0°-30°)	767.2	3.2	B2/1000		
BM (30°-60°)	749.3	3.1	B1/1000		
BH (60°-80°)	238.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0
2.5°	4250.6	4252.3	4262.6	4288.3	4327.8	4360.4	4387.9	4432.6	4463.4	4466.9	4477.1
5°	3957.0	3936.4	3957.0	4023.9	4084.1	4175.1	4286.6	4398.2	4497.8	4504.6	4552.7
7.5°	3627.4	3644.6	3677.2	3745.8	3859.2	3998.2	4159.6	4358.7	4547.5	4564.7	4659.1
10°	3292.7	3330.4	3383.6	3488.4	3646.3	3826.6	4046.3	4331.2	4626.5	4650.6	4813.6
12.5°	2983.6	3000.8	3066.0	3206.8	3402.5	3656.6	3960.4	4315.8	4714.1	4743.2	4978.5
15°	2746.7	2769.1	2825.7	2952.8	3170.7	3497.0	3890.0	4310.6	4799.9	4841.1	5143.2
17.5°	2702.1	2715.8	2739.9	2825.7	3016.2	3369.9	3826.6	4308.9	4882.3	4932.1	5296.0
20°	2885.8	2873.8	2849.7	2841.2	2945.9	3272.1	3780.2	4322.7	4961.3	5017.9	5457.4
22.5°	3345.8	3361.3	3220.5	3054.0	3019.7	3256.6	3773.3	4387.9	5086.6	5153.6	5637.6
25°	4322.7	4204.2	3984.5	3586.2	3285.8	3351.0	3850.6	4542.4	5232.5	5306.4	5800.7
27.5°	5402.5	5366.4	5024.8	4369.0	3809.4	3550.1	3987.9	4660.8	5280.6	5356.2	5893.5
30°	6463.4	6506.3	6114.9	5390.5	4569.9	3919.2	4116.7	4705.5	5323.5	5402.5	6011.9
32.5°	7447.1	7498.6	7155.2	6437.7	5466.0	4557.9	4338.1	4878.9	5503.8	5584.4	6209.4
35°	8221.3	8228.2	7969.0	7397.3	6444.5	5333.8	4817.1	5182.7	5747.6	5841.9	6418.8
37.5°	8932.0	8921.7	8617.9	8125.2	7259.9	6104.7	5419.7	5532.9	6025.7	6123.5	6720.9
40°	9459.1	9466.0	9368.1	8904.6	8020.4	6817.1	5896.9	5860.8	6492.6	6645.4	7160.4
42.5°	9811.0	9874.5	9922.5	9687.4	8976.7	7694.3	6629.9	6563.0	7302.9	7429.9	7781.9
45°	10096.0	10209.2	10449.6	10437.6	9895.1	8770.6	7635.9	7498.6	8451.4	8586.9	8573.2
47.5°	10303.7	10418.7	10816.9	11057.3	10758.6	9814.4	8901.1	8782.6	9823.0	9970.6	9447.0
50°	10410.2	10547.5	11055.6	11520.9	11433.3	10820.4	10343.1	10350.0	11479.6	11622.1	10459.9
52.5°	10161.2	10339.8	11182.6	12020.4	12190.3	11783.5	11694.2	11920.8	12954.3	13076.1	11374.9
55°	9366.4	9591.3	11009.3	12446.1	13067.5	12919.9	13228.9	13574.0	14566.3	14645.3	12313.9
57.5°	8863.4	9102.0	10497.7	12808.3	14121.7	14348.2	14837.5	15089.9	16229.8	16430.6	13392.0
60°	8439.4	8626.5	10077.0	12885.6	15192.8	16095.8	16571.4	16832.3	18282.9	18413.4	14578.3
62.5°	7733.8	7948.4	9366.4	12346.6	15731.9	17495.0	18480.4	18363.7	19870.9	19961.9	15306.2
65°	6599.0	6617.9	7924.3	10992.0	15175.7	18403.1	19821.1	19331.8	20629.6	20691.5	15249.5
67.5°	4925.2	5107.2	6096.0	8640.2	12818.7	17627.1	20255.4	19357.5	20150.7	19979.0	14039.2
70°	3172.5	3311.5	4132.1	5991.3	9242.8	14710.4	18815.1	18030.5	17685.6	17304.4	11491.7
72.5°	1464.3	1642.9	2454.9	3423.1	5481.5	10478.8	15273.6	14648.6	12729.4	11788.6	7304.6
75°	638.7	683.2	1212.0	1806.0	2569.9	5541.5	10070.2	9093.4	5749.2	5251.4	2923.6
77.5°	389.7	418.9	635.2	968.2	1009.5	2111.6	5424.8	3967.3	1776.8	1567.4	793.1
80°	264.4	297.0	461.8	506.5	345.1	588.9	2036.0	1059.2	358.8	343.4	170.0
82.5°	128.8	163.1	341.6	283.2	149.4	188.8	592.2	226.6	104.7	97.9	60.0
85°	18.9	32.6	192.3	185.4	66.9	44.7	104.7	56.7	36.1	34.3	27.5
87.5°	0.0	0.0	65.3	29.2	6.9	6.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0	4448.0
2.5°	4482.4	4490.9	4458.3	4412.0	4362.2	4312.4	4242.0	4178.4	4140.7	4163.0	4108.1
5°	4563.0	4556.1	4470.3	4329.6	4142.4	3917.5	3694.3	3503.8	3442.0	3349.3	3339.0
7.5°	4674.6	4655.7	4473.7	4151.0	3728.7	3306.4	2894.4	2621.4	2465.2	2333.0	2336.5
10°	4830.8	4775.9	4434.3	3836.8	3141.6	2504.7	1979.4	1618.8	1462.7	1412.9	1373.4
12.5°	4992.2	4885.8	4324.4	3412.8	2446.3	1711.5	1203.4	983.6	887.5	856.6	853.2
15°	5136.4	4968.1	4132.1	2903.0	1778.5	1093.6	820.6	748.5	736.5	738.1	736.5
17.5°	5278.9	5033.4	3866.0	2362.2	1208.6	784.6	705.6	688.4	693.6	700.4	698.7
20°	5397.3	5047.1	3526.1	1802.5	855.0	688.4	662.6	659.2	664.4	669.5	669.5
22.5°	5526.0	5057.4	3122.7	1248.0	698.7	640.3	626.6	626.6	633.4	640.3	642.0
25°	5622.3	5000.8	2640.3	896.1	616.3	594.0	587.1	588.9	595.7	599.1	597.4
27.5°	5637.6	4841.1	2128.7	686.7	559.7	537.3	530.5	537.3	528.7	533.9	530.5
30°	5651.4	4638.5	1610.3	578.5	508.1	473.8	463.5	453.2	446.3	437.7	436.1
32.5°	5694.3	4399.9	1176.0	520.2	460.1	422.4	398.3	369.1	346.7	339.9	338.2
35°	5713.2	4113.2	863.5	473.8	417.1	375.9	333.0	291.8	259.2	247.2	255.7
37.5°	5785.3	3835.1	669.5	439.5	379.4	327.9	273.0	221.4	190.6	183.7	187.1
40°	5932.9	3533.0	561.4	410.3	346.7	327.9	273.0	221.4	190.6	183.7	187.1
42.5°	6169.8	3232.6	499.6	382.8	314.2	238.6	170.0	130.4	113.3	108.2	108.2
45°	6458.3	2944.2	456.7	353.6	279.8	192.3	133.9	104.7	94.4	91.0	91.0
47.5°	6837.7	2691.8	420.6	324.5	242.0	152.8	108.2	91.0	84.1	85.9	87.5
50°	7222.2	2504.7	381.1	291.8	199.1	125.3	92.7	80.7	79.0	80.7	80.7
52.5°	7512.3	2394.8	327.9	247.2	156.3	104.7	82.4	75.5	73.8	70.4	70.4
55°	7903.7	2370.8	261.0	200.8	123.6	87.5	73.8	68.7	63.5	60.0	58.4
57.5°	8406.7	2398.3	200.8	156.3	96.1	72.1	65.3	56.7	49.8	42.9	42.9
60°	8719.2	2336.5	156.3	120.2	70.4	58.4	49.8	41.2	32.6	27.5	25.7
62.5°	8619.6	2075.5	123.6	89.2	49.8	42.9	32.6	27.5	18.9	13.7	12.0
65°	8106.3	1675.5	99.6	61.8	36.1	25.7	17.2	17.2	8.6	1.7	0.0
67.5°	7095.2	1241.1	79.0	41.2	20.6	12.0	8.6	5.1	0.0	0.0	0.0
70°	5775.0	896.1	61.8	25.7	12.0	8.6	3.4	1.7	0.0	0.0	0.0
72.5°	3666.9	513.3	48.1	15.5	8.6	3.4	0.0	0.0	0.0	0.0	0.0
75°	1418.0	200.8	32.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	401.7	94.4	18.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.7	41.2	10.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.8	17.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.2	6.9	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)