

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: P648566

Luminaire Tested: **GALN-SA7B-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648566  
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-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 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: 24296.5 lumens  
Efficiency: N/A  
Efficacy: 85.0 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

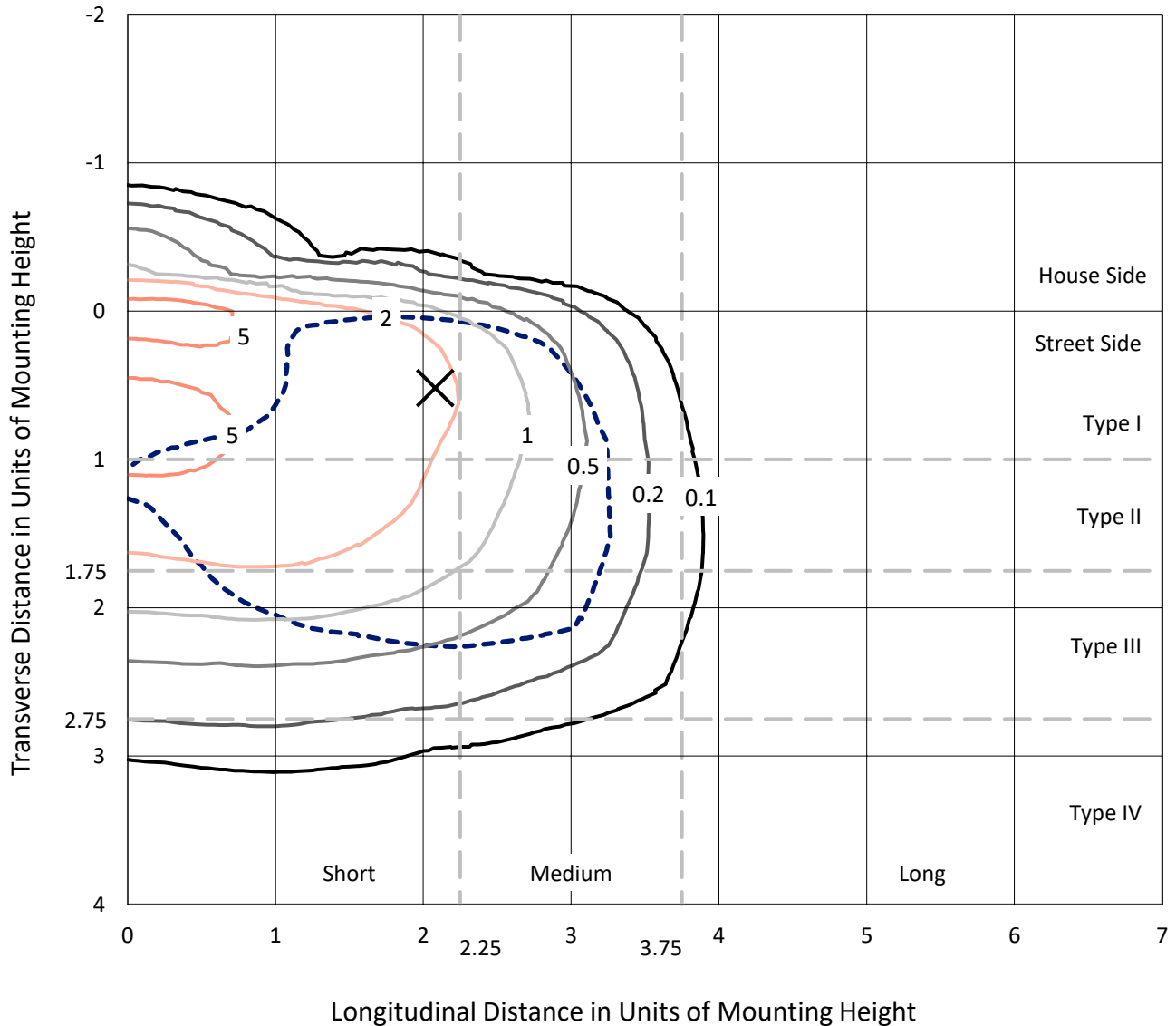
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

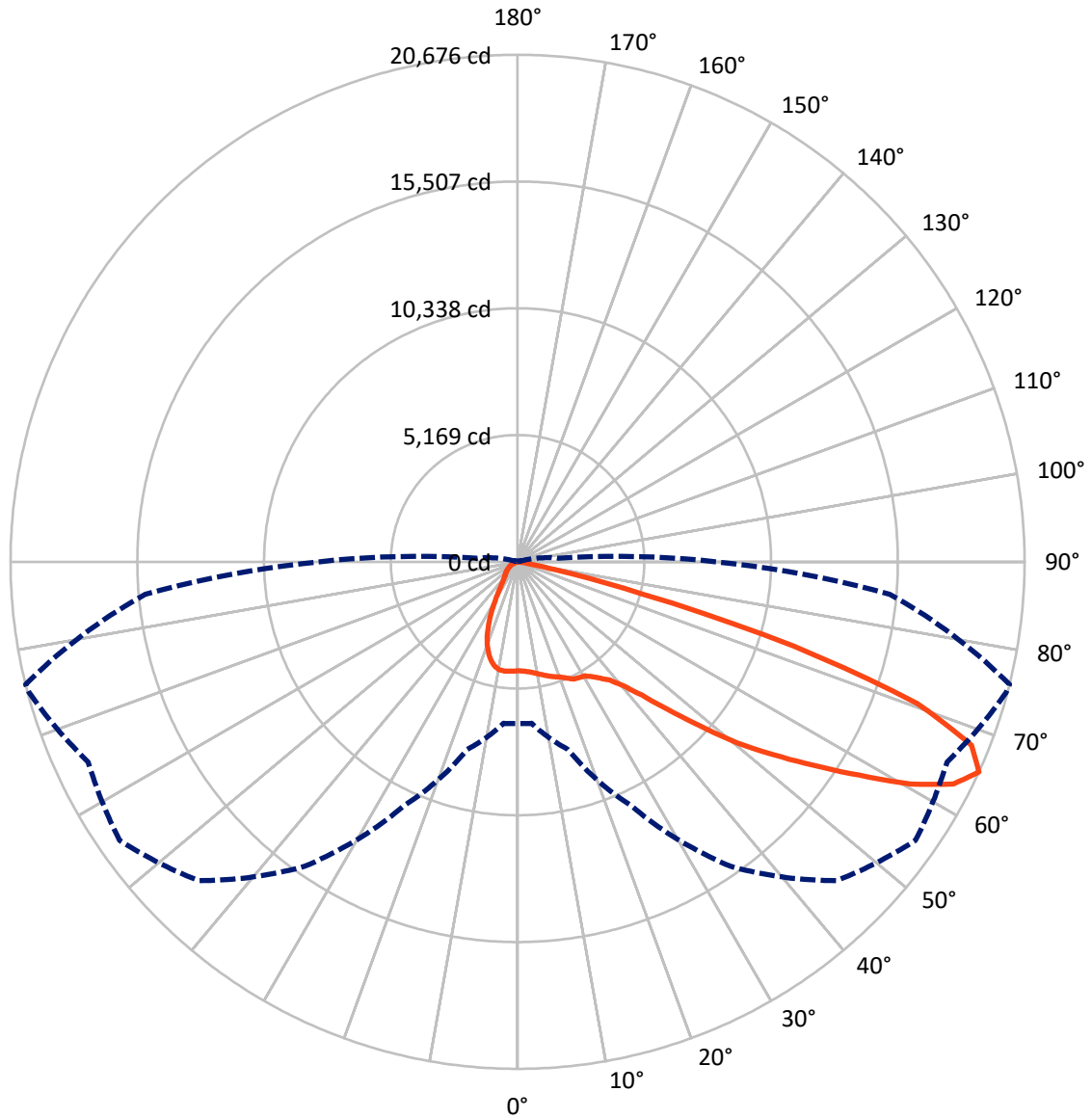
✕ Max cd  
 - - - 1/2 Max cd



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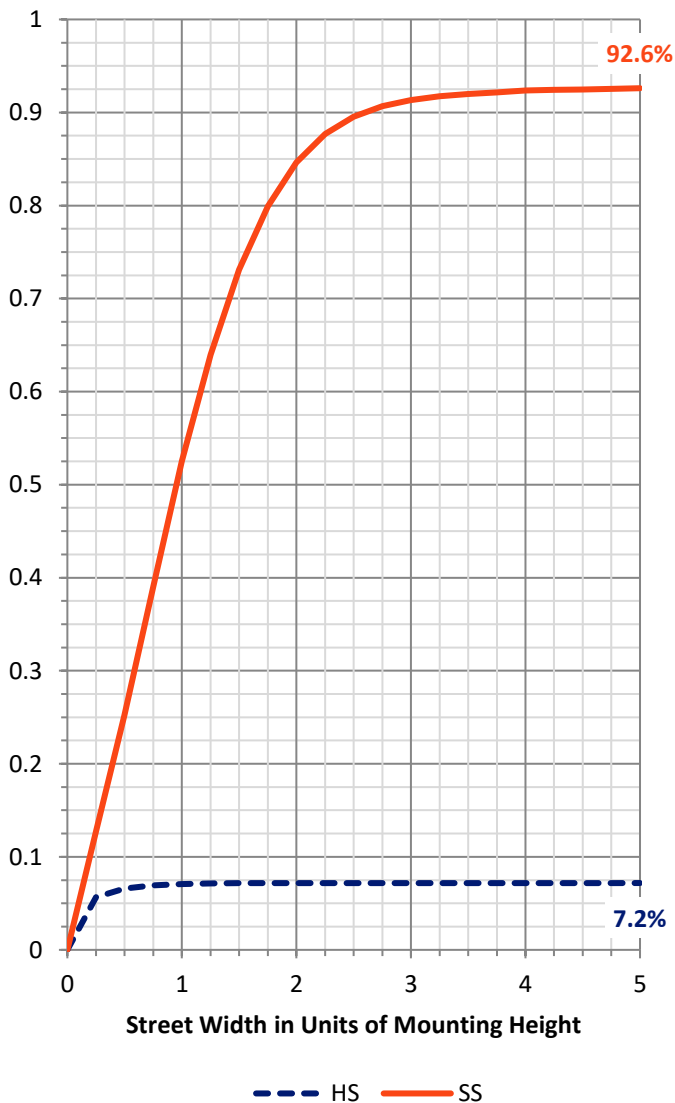
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1754.7	0.0	1754.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	22541.8	0.0	22541.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	24296.5	0.0	24296.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.1	1.5
10°-20°	815.2	3.4
20°-30°	1313.7	5.4
30°-40°	2284.1	9.4
40°-50°	3774.4	15.5
50°-60°	5830.6	24.0
60°-70°	7120.0	29.3
70°-80°	2702.2	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°	24296.5	100.0
0°-180°	24296.5	100.0

**Coefficient of Utilization**

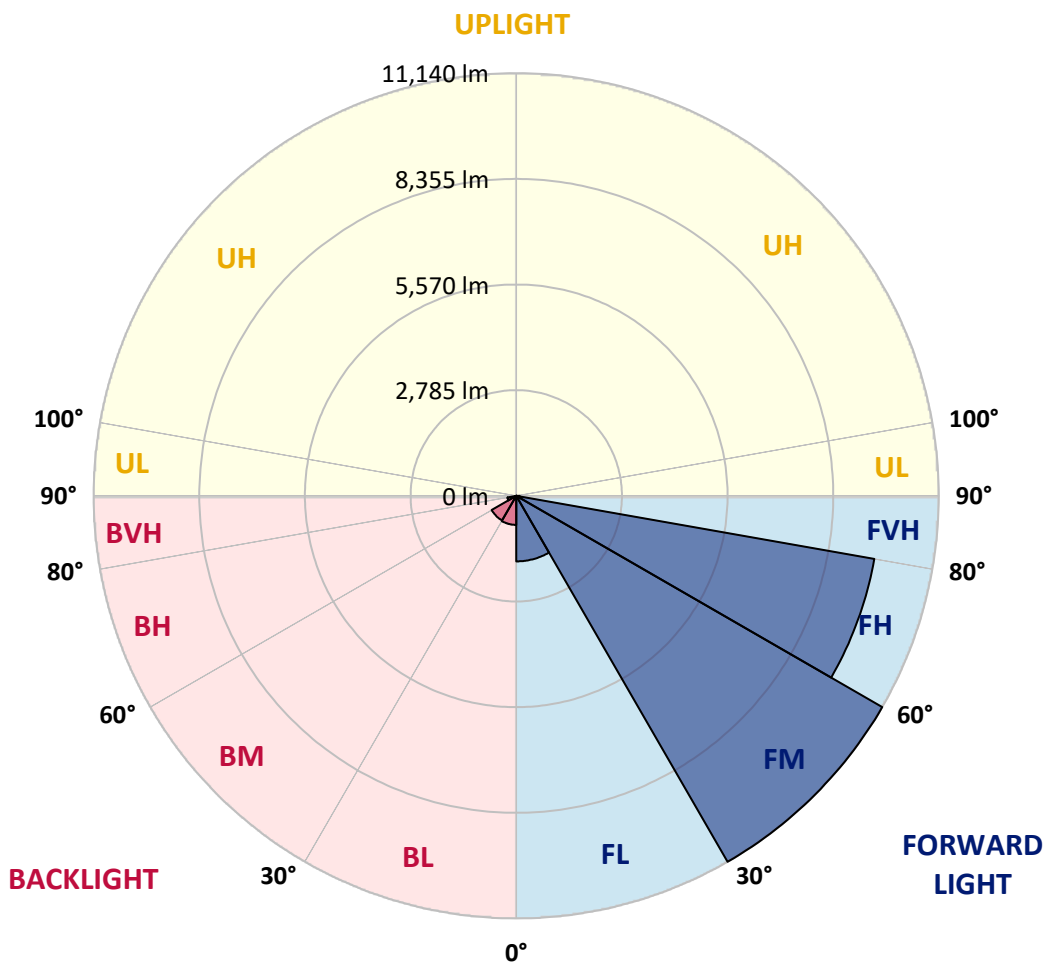


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1728.4	7.1			
FM (30°-60°)	11140.3	45.9			
FH (60°-80°)	9584.1	39.4			G4/12000
FVH (80°-90°)	88.9	0.4			G1/100
BL (0°-30°)	766.6	3.2	B2/1000		
BM (30°-60°)	748.8	3.1	B1/1000		
BH (60°-80°)	238.1	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°	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6
2.5°	4247.3	4249.0	4259.4	4285.0	4324.5	4357.1	4384.6	4429.2	4460.0	4463.5	4473.7
5°	3954.0	3933.4	3954.0	4020.9	4080.9	4171.8	4283.3	4394.8	4494.3	4501.2	4549.2
7.5°	3624.7	3641.8	3674.4	3743.0	3856.2	3995.2	4156.4	4355.4	4544.1	4561.3	4655.6
10°	3290.2	3327.9	3381.1	3485.7	3643.5	3823.6	4043.2	4328.0	4623.0	4647.0	4810.0
12.5°	2981.4	2998.5	3063.7	3204.3	3399.9	3653.8	3957.4	4312.5	4710.5	4739.7	4974.6
15°	2744.6	2767.0	2823.6	2950.5	3168.3	3494.3	3887.1	4307.4	4796.3	4837.5	5139.4
17.5°	2700.0	2713.8	2737.8	2823.6	3013.9	3367.4	3823.6	4305.6	4878.6	4928.4	5292.0
20°	2883.6	2871.6	2847.5	2839.0	2943.6	3269.6	3777.3	4319.3	4957.5	5014.1	5453.3
22.5°	3343.3	3358.8	3218.1	3051.7	3017.4	3254.1	3770.5	4384.6	5082.8	5149.6	5633.4
25°	4319.3	4201.0	3981.5	3583.5	3283.3	3348.5	3847.7	4539.0	5228.6	5302.3	5796.3
27.5°	5398.4	5362.4	5021.0	4365.7	3806.5	3547.5	3984.8	4657.3	5276.6	5352.0	5888.9
30°	6458.5	6501.4	6110.2	5386.3	4566.4	3916.3	4113.6	4701.9	5319.5	5398.4	6007.3
32.5°	7441.4	7492.8	7149.8	6432.7	5461.8	4554.4	4334.8	4875.2	5499.6	5580.2	6204.6
35°	8215.1	8221.9	7962.9	7391.7	6439.6	5329.7	4813.4	5178.8	5743.1	5837.5	6413.9
37.5°	8925.3	8914.9	8611.3	8119.0	7254.4	6100.0	5415.5	5528.8	6021.0	6118.8	6715.8
40°	9451.8	9458.7	9360.9	8897.8	8014.3	6811.9	5892.4	5856.4	6487.6	6640.3	7155.0
42.5°	9803.6	9867.0	9915.1	9680.0	8969.8	7688.4	6624.9	6557.9	7297.3	7424.2	7775.9
45°	10088.3	10201.5	10441.6	10429.6	9887.6	8764.0	7630.1	7492.8	8444.9	8580.4	8566.7
47.5°	10295.8	10410.8	10808.8	11048.9	10750.4	9806.9	8894.3	8776.0	9815.5	9963.0	9439.8
50°	10402.2	10539.4	11047.2	11512.1	11424.6	10812.1	10335.3	10342.2	11470.9	11613.3	10452.0
52.5°	10153.5	10331.8	11174.1	12011.2	12181.1	11774.5	11685.3	11911.8	12944.4	13066.2	11366.3
55°	9359.2	9583.9	11000.8	12436.6	13057.6	12910.1	13218.8	13563.7	14555.2	14634.1	12304.5
57.5°	8856.6	9095.1	10489.7	12798.6	14110.9	14337.4	14826.2	15078.4	16217.4	16418.1	13381.9
60°	8432.9	8619.9	10069.4	12875.8	15181.3	16083.6	16558.7	16819.5	18269.0	18399.4	14567.2
62.5°	7727.9	7942.3	9359.2	12337.2	15719.9	17481.6	18466.3	18349.6	19855.8	19946.7	15294.5
65°	6594.0	6612.9	7918.3	10983.7	15164.1	18389.1	19806.0	19317.2	20614.0	20675.7	15237.9
67.5°	4921.5	5103.3	6091.4	8633.6	12808.9	17613.7	20240.0	19342.8	20135.4	19963.8	14028.5
70°	3170.1	3309.0	4129.0	5986.7	9235.7	14699.3	18800.8	18016.8	17672.1	17291.2	11482.9
72.5°	1463.3	1641.6	2453.1	3420.5	5477.2	10470.8	15261.9	14637.5	12719.7	11779.7	7299.0
75°	638.1	682.7	1211.1	1804.6	2567.9	5537.3	10062.6	9086.5	5744.9	5247.4	2921.3
77.5°	389.4	418.6	634.7	967.5	1008.7	2110.0	5420.6	3964.3	1775.5	1566.2	792.6
80°	264.2	296.8	461.4	506.1	344.8	588.3	2034.5	1058.4	358.5	343.1	169.8
82.5°	128.6	162.9	341.4	283.1	149.2	188.7	591.8	226.4	104.6	97.8	60.1
85°	18.9	32.6	192.1	185.3	66.9	44.6	104.6	56.6	36.0	34.3	27.5
87.5°	0.0	0.0	65.2	29.1	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°	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6
2.5°	4478.9	4487.5	4454.9	4408.6	4358.8	4309.1	4238.8	4175.3	4137.5	4159.8	4105.0
5°	4559.6	4552.7	4466.9	4326.2	4139.3	3914.5	3691.5	3501.1	3439.4	3346.8	3336.4
7.5°	4671.1	4652.2	4470.3	4147.9	3725.8	3303.9	2892.2	2619.4	2463.3	2331.2	2334.7
10°	4827.1	4772.2	4430.9	3834.0	3139.2	2502.8	1977.9	1617.6	1461.5	1411.7	1372.3
12.5°	4988.4	4882.0	4321.1	3410.2	2444.4	1710.2	1202.5	982.9	886.8	856.0	852.5
15°	5132.5	4964.4	4129.0	2900.8	1777.2	1092.7	820.0	747.9	735.9	737.6	735.9
17.5°	5274.8	5029.5	3863.1	2360.4	1207.6	783.9	705.0	687.9	693.0	699.8	698.2
20°	5393.2	5043.3	3523.4	1801.1	854.3	687.9	662.2	658.7	663.8	669.0	669.0
22.5°	5521.9	5053.6	3120.3	1247.1	698.2	639.9	626.1	626.1	633.0	639.9	641.6
25°	5617.9	4996.9	2638.3	895.4	615.8	593.5	586.7	588.3	595.2	598.7	597.0
27.5°	5633.4	4837.5	2127.1	686.1	559.2	536.9	530.1	536.9	528.4	533.5	530.1
30°	5647.1	4635.0	1609.1	578.1	507.8	473.5	463.1	452.9	446.0	437.5	435.7
32.5°	5690.0	4396.5	1175.0	519.8	459.7	422.0	398.0	368.8	346.5	339.7	337.9
35°	5708.9	4110.1	862.9	473.5	416.9	375.7	332.8	291.6	259.0	247.0	255.6
37.5°	5780.9	3832.2	669.0	439.1	379.1	327.6	272.7	221.3	190.4	183.5	187.0
40°	5928.4	3530.3	560.9	410.0	346.5	283.1	216.1	166.4	145.8	139.0	137.3
42.5°	6165.2	3230.1	499.2	382.5	313.9	238.4	169.8	130.4	113.2	108.1	108.1
45°	6453.3	2941.9	456.3	353.4	279.6	192.1	133.8	104.6	94.4	90.9	90.9
47.5°	6832.5	2689.8	420.2	324.2	241.9	152.7	108.1	90.9	84.0	85.7	87.5
50°	7216.7	2502.8	380.9	291.6	199.0	125.2	92.6	80.6	78.9	80.6	80.6
52.5°	7506.6	2393.0	327.6	247.0	156.1	104.6	82.4	75.5	73.8	70.3	70.3
55°	7897.7	2369.0	260.7	200.7	123.5	87.5	73.8	68.6	63.5	60.1	58.3
57.5°	8400.3	2396.4	200.7	156.1	96.1	72.0	65.2	56.6	49.7	42.9	42.9
60°	8712.5	2334.7	156.1	120.1	70.3	58.3	49.7	41.2	32.6	27.5	25.8
62.5°	8613.0	2073.9	123.5	89.2	49.7	42.9	32.6	27.5	18.9	13.7	12.0
65°	8100.1	1674.2	99.5	61.8	36.0	25.8	17.1	17.1	8.6	1.7	0.0
67.5°	7089.8	1240.3	78.9	41.2	20.6	12.0	8.6	5.2	0.0	0.0	0.0
70°	5770.6	895.4	61.8	25.8	12.0	8.6	3.4	1.7	0.0	0.0	0.0
72.5°	3664.1	512.9	48.0	15.4	8.6	3.4	0.0	0.0	0.0	0.0	0.0
75°	1416.9	200.7	32.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	401.4	94.4	18.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.6	41.2	10.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.7	17.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.1	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)