

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: P457318

Luminaire Tested: **GALN-SA8C-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457318
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-SA8C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA 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: 32675 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

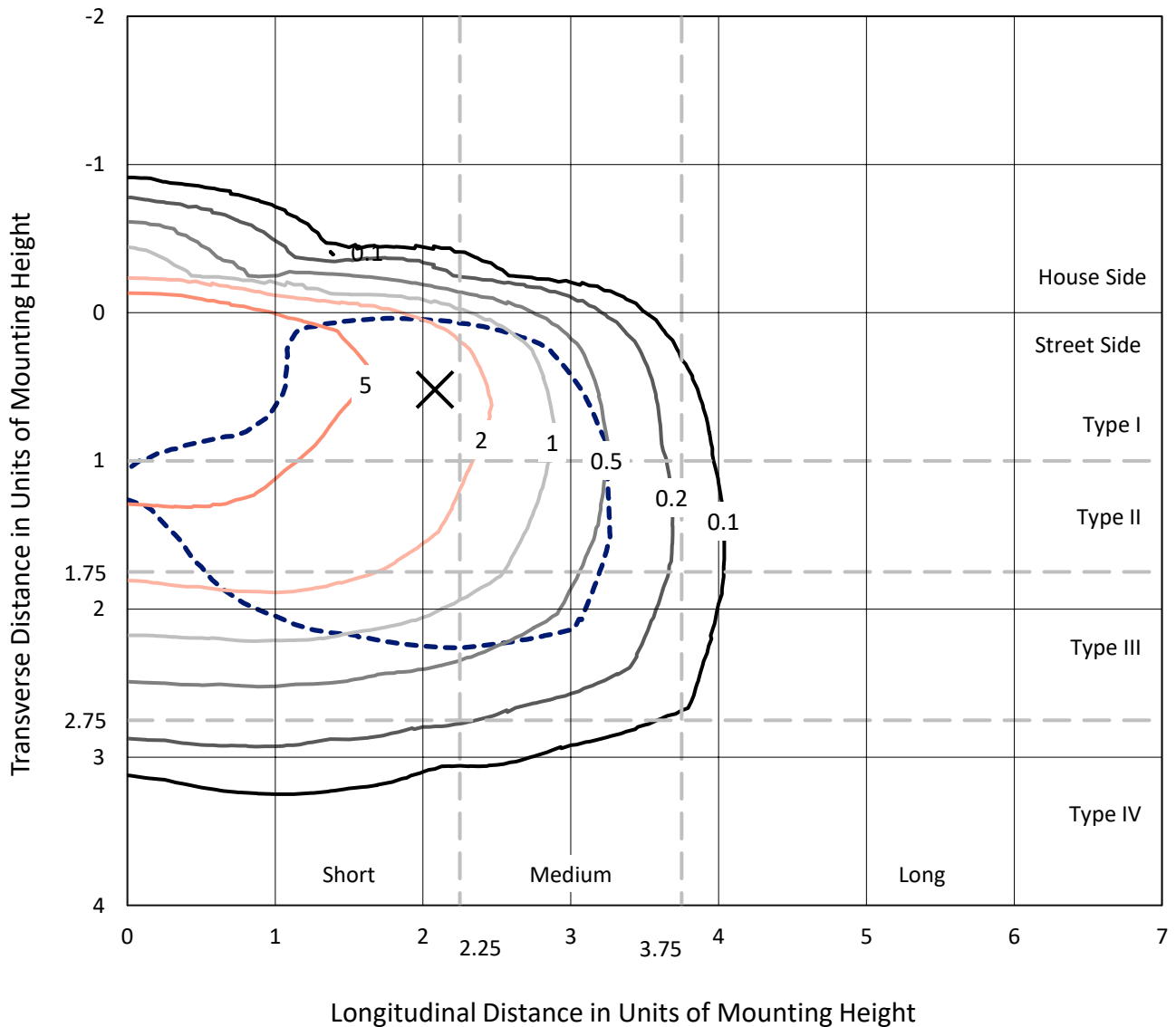
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

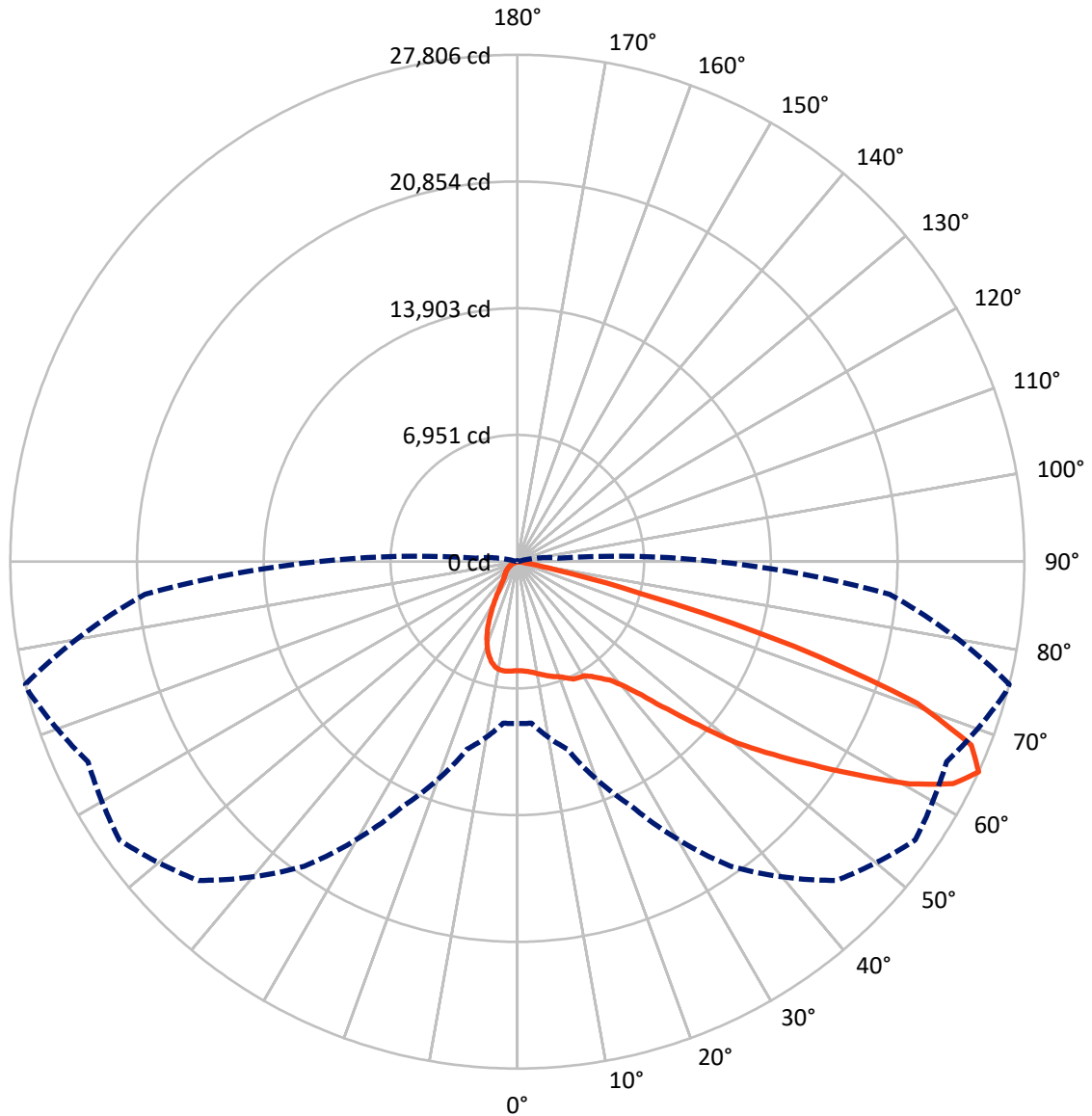
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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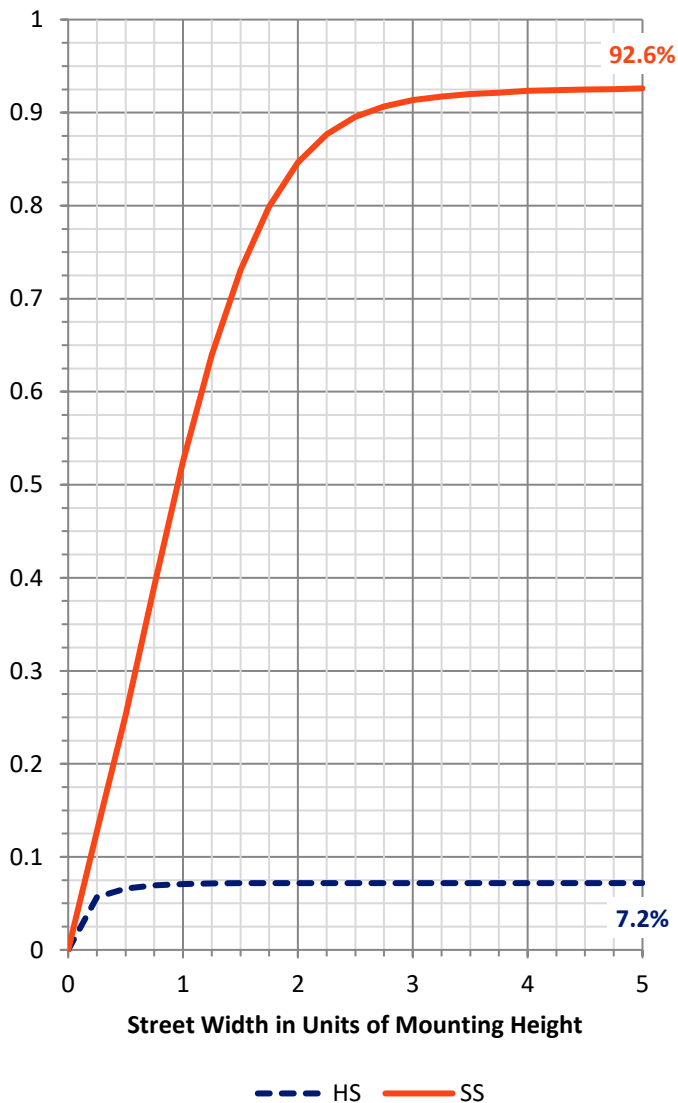
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2359.8	0.0	2359.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	30315.2	0.0	30315.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	32675.0	0.0	32675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.4	1.5
10°-20°	1096.3	3.4
20°-30°	1766.7	5.4
30°-40°	3071.8	9.4
40°-50°	5075.9	15.5
50°-60°	7841.3	24.0
60°-70°	9575.3	29.3
70°-80°	3634.1	11.1
80°-90°	121.3	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°	32675.0	100.0
0°-180°	32675.0	100.0

Coefficient of Utilization



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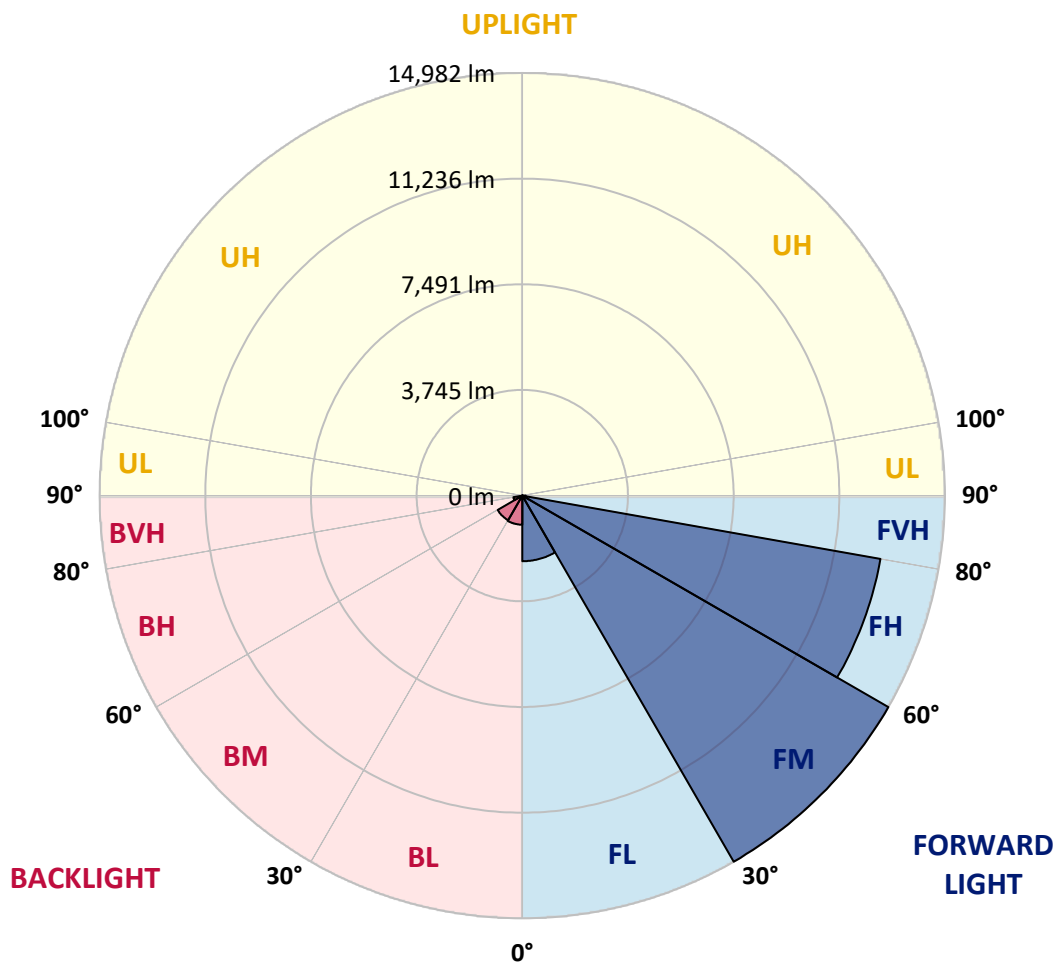
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2324.4	7.1			
FM	(30°-60°)	14982.0	45.9			
FH	(60°-80°)	12889.2	39.4			G5
FVH	(80°-90°)	119.6	0.4			G2/225
BL	(0°-30°)	1030.9	3.2	B3/2500		
BM	(30°-60°)	1007.0	3.1	B2/2500		
BH	(60°-80°)	320.2	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3
2.5°	5712.0	5714.3	5728.2	5762.8	5815.8	5859.6	5896.6	5956.5	5998.1	6002.7	6016.5
5°	5317.5	5289.8	5317.5	5407.5	5488.2	5610.5	5760.4	5910.4	6044.2	6053.4	6118.0
7.5°	4874.6	4897.6	4941.5	5033.8	5186.0	5372.9	5589.7	5857.3	6111.1	6134.2	6261.1
10°	4424.7	4475.5	4547.0	4687.7	4900.0	5142.2	5437.5	5820.4	6217.2	6249.5	6468.7
12.5°	4009.5	4032.5	4120.2	4309.4	4572.4	4913.8	5322.1	5799.7	6334.9	6374.1	6690.1
15°	3691.1	3721.1	3797.2	3967.9	4260.9	4699.3	5227.5	5792.7	6450.2	6505.6	6911.6
17.5°	3631.1	3649.6	3681.9	3797.2	4053.3	4528.5	5142.2	5790.4	6561.0	6627.9	7116.9
20°	3878.0	3861.8	3829.5	3818.0	3958.7	4397.0	5079.9	5808.9	6667.1	6743.2	7333.8
22.5°	4496.2	4517.0	4327.8	4104.1	4057.9	4376.3	5070.7	5896.6	6835.5	6925.5	7576.0
25°	5808.9	5649.7	5354.4	4819.2	4415.5	4503.2	5174.5	6104.2	7031.6	7130.8	7795.2
27.5°	7260.0	7211.5	6752.4	5871.2	5119.1	4770.8	5359.0	6263.4	7096.2	7197.7	7919.7
30°	8685.7	8743.3	8217.3	7243.8	6141.1	5266.8	5532.1	6323.3	7153.8	7260.0	8078.9
32.5°	10007.5	10076.7	9615.4	8651.1	7345.3	6124.9	5829.7	6556.3	7396.1	7504.5	8344.2
35°	11048.0	11057.2	10708.8	9940.6	8660.3	7167.7	6473.3	6964.7	7723.7	7850.5	8625.7
37.5°	12003.0	11989.2	11580.9	10918.8	9756.1	8203.5	7283.0	7435.3	8097.4	8228.9	9031.7
40°	12711.3	12720.5	12589.0	11966.1	10778.1	9160.9	7924.4	7875.9	8724.9	8930.2	9622.3
42.5°	13184.2	13269.6	13334.2	13018.1	12063.0	10339.7	8909.4	8819.5	9813.8	9984.5	10457.4
45°	13567.2	13719.4	14042.4	14026.2	13297.2	11786.2	10261.3	10076.7	11357.1	11539.4	11520.9
47.5°	13846.3	14000.9	14536.1	14859.0	14457.6	13188.8	11961.5	11802.3	13200.4	13398.7	12695.1
50°	13989.3	14173.9	14856.7	15481.9	15364.3	14540.7	13899.4	13908.6	15426.6	15618.0	14056.2
52.5°	13654.8	13894.7	15027.5	16153.2	16381.6	15834.9	15714.9	16019.4	17408.2	17572.0	15285.8
55°	12586.7	12888.9	14794.5	16725.4	17560.5	17362.1	17777.3	18241.0	19574.4	19680.6	16547.7
57.5°	11910.8	12231.4	14107.0	17212.1	18976.9	19281.5	19938.9	20278.1	21809.9	22079.8	17996.5
60°	11341.0	11592.4	13541.8	17315.9	20416.5	21629.9	22269.0	22619.6	24569.0	24744.3	19590.6
62.5°	10392.8	10681.2	12586.7	16591.6	21140.9	23510.1	24834.3	24677.4	26702.9	26825.2	20568.7
65°	8867.9	8893.3	10648.9	14771.4	20393.4	24730.5	26636.0	25978.5	27722.6	27805.6	20492.6
67.5°	6618.6	6863.2	8192.0	11610.9	17226.0	23687.7	27219.7	26013.1	27078.9	26848.3	18866.2
70°	4263.2	4450.1	5552.8	8051.2	12420.6	19768.2	25284.1	24229.9	23766.2	23254.0	15442.7
72.5°	1967.8	2207.7	3298.9	4600.1	7366.1	14081.6	20524.9	19685.2	17106.0	15841.8	9816.1
75°	858.2	918.2	1628.7	2426.9	3453.5	7446.8	13532.6	12219.9	7726.0	7057.0	3928.7
77.5°	523.7	562.9	853.6	1301.1	1356.5	2837.5	7290.0	5331.4	2387.7	2106.2	1065.8
80°	355.3	399.1	620.6	680.5	463.7	791.3	2736.0	1423.4	482.2	461.4	228.4
82.5°	173.0	219.2	459.1	380.6	200.7	253.8	795.9	304.5	140.7	131.5	80.7
85°	25.4	43.8	258.4	249.2	90.0	60.0	140.7	76.1	48.4	46.1	36.9
87.5°	0.0	0.0	87.7	39.2	9.2	9.2	16.1	16.1	18.5	16.1	18.5
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°	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3	5977.3
2.5°	6023.4	6035.0	5991.1	5928.9	5862.0	5795.1	5700.5	5615.1	5564.4	5594.3	5520.5
5°	6131.9	6122.6	6007.3	5818.1	5566.7	5264.5	4964.6	4708.5	4625.4	4500.9	4487.0
7.5°	6281.8	6256.4	6011.9	5578.2	5010.7	4443.2	3889.5	3522.7	3312.8	3135.1	3139.8
10°	6491.7	6417.9	5958.8	5156.0	4221.7	3365.8	2659.9	2175.5	1965.5	1898.6	1845.6
12.5°	6708.6	6565.6	5811.2	4586.2	3287.4	2300.0	1617.2	1321.9	1192.7	1151.2	1146.6
15°	6902.4	6676.3	5552.8	3901.0	2390.0	1469.5	1102.7	1005.8	989.7	992.0	989.7
17.5°	7093.9	6764.0	5195.2	3174.4	1624.1	1054.3	948.2	925.1	932.0	941.2	938.9
20°	7253.0	6782.4	4738.5	2422.3	1148.9	925.1	890.5	885.9	892.8	899.7	899.7
22.5°	7426.1	6796.3	4196.3	1677.2	938.9	860.5	842.0	842.0	851.3	860.5	862.8
25°	7555.3	6720.1	3548.1	1204.2	828.2	798.2	789.0	791.3	800.5	805.1	802.8
27.5°	7576.0	6505.6	2860.6	922.8	752.1	722.1	712.8	722.1	710.5	717.5	712.8
30°	7594.5	6233.4	2163.9	777.4	682.9	636.7	622.9	609.0	599.8	588.3	586.0
32.5°	7652.1	5912.7	1580.3	699.0	618.3	567.5	535.2	496.0	466.0	456.8	454.5
35°	7677.5	5527.4	1160.4	636.7	560.6	505.2	447.5	392.2	348.3	332.2	343.7
37.5°	7774.4	5153.7	899.7	590.6	509.8	440.6	366.8	297.6	256.1	246.8	251.5
40°	7972.8	4747.7	754.4	551.4	466.0	380.6	290.7	223.8	196.1	186.9	184.6
42.5°	8291.2	4344.0	671.3	514.4	422.2	320.7	228.4	175.3	152.3	145.3	145.3
45°	8678.7	3956.4	613.6	475.2	376.0	258.4	179.9	140.7	126.9	122.3	122.3
47.5°	9188.6	3617.3	565.2	436.0	325.3	205.3	145.3	122.3	113.0	115.3	117.7
50°	9705.3	3365.8	512.1	392.2	267.6	168.4	124.6	108.4	106.1	108.4	108.4
52.5°	10095.2	3218.2	440.6	332.2	209.9	140.7	110.7	101.5	99.2	94.6	94.6
55°	10621.2	3185.9	350.7	269.9	166.1	117.7	99.2	92.3	85.4	80.7	78.4
57.5°	11297.1	3222.8	269.9	209.9	129.2	96.9	87.7	76.1	66.9	57.7	57.7
60°	11717.0	3139.8	209.9	161.5	94.6	78.4	66.9	55.4	43.8	36.9	34.6
62.5°	11583.2	2789.1	166.1	120.0	66.9	57.7	43.8	36.9	25.4	18.5	16.1
65°	10893.4	2251.6	133.8	83.1	48.4	34.6	23.1	23.1	11.5	2.3	0.0
67.5°	9534.6	1667.9	106.1	55.4	27.7	16.1	11.5	6.9	0.0	0.0	0.0
70°	7760.6	1204.2	83.1	34.6	16.1	11.5	4.6	2.3	0.0	0.0	0.0
72.5°	4927.6	689.8	64.6	20.8	11.5	4.6	0.0	0.0	0.0	0.0	0.0
75°	1905.5	269.9	43.8	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	539.8	126.9	25.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.7	55.4	13.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.9	23.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.2	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.5	2.3	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)