

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: P456071

Luminaire Tested: **GALN-SA7B-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456071
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-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 31030 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

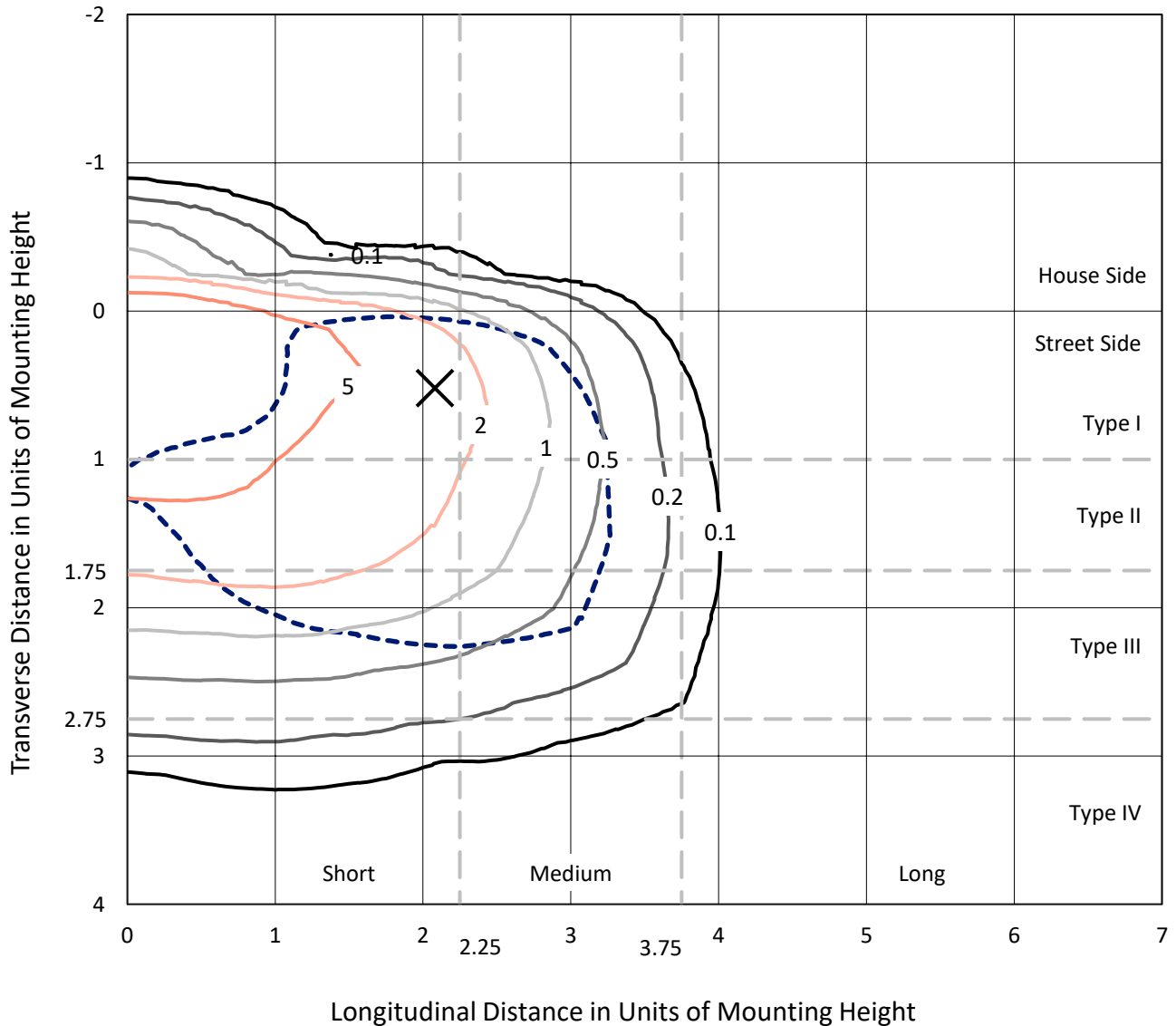
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

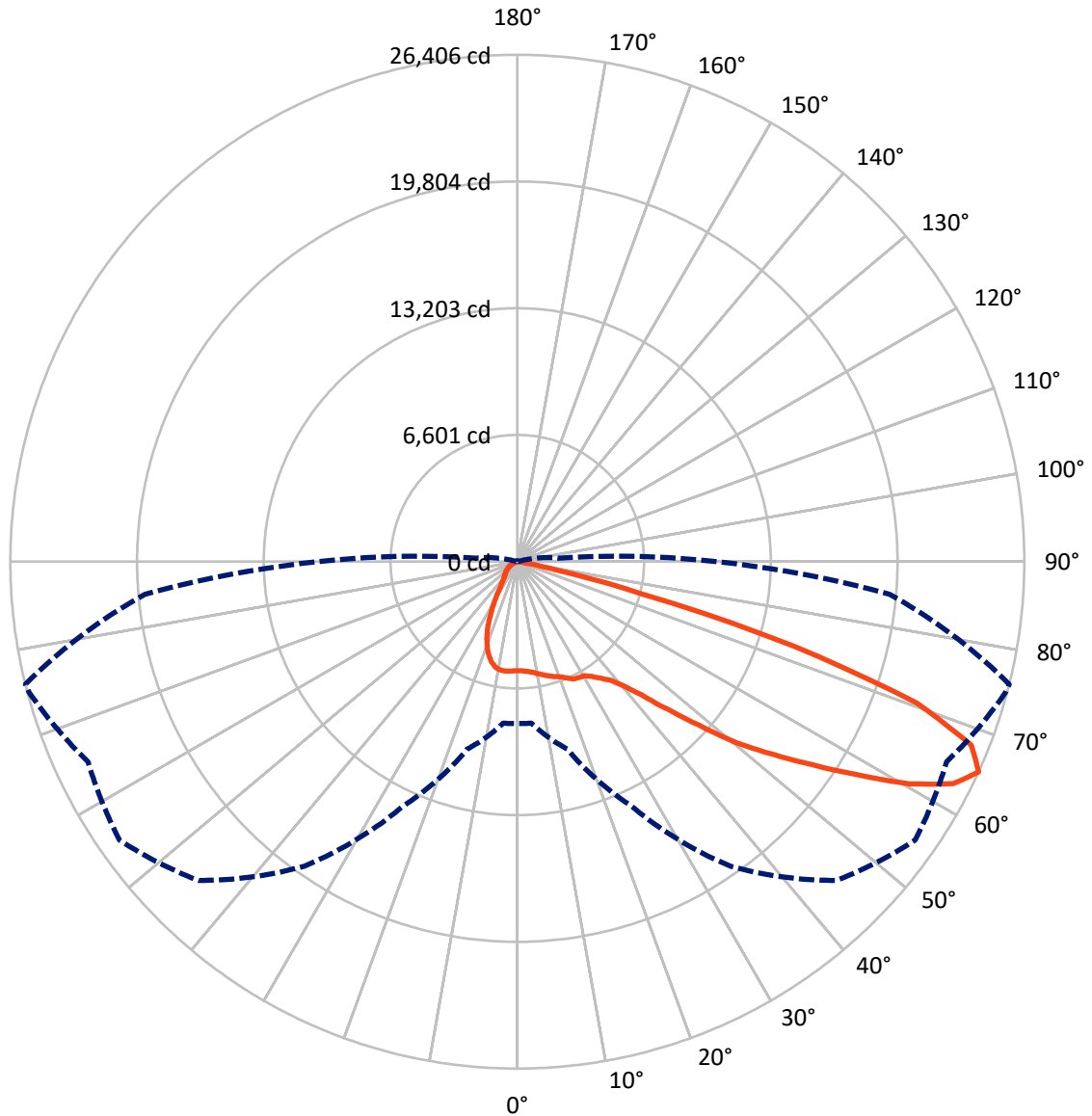
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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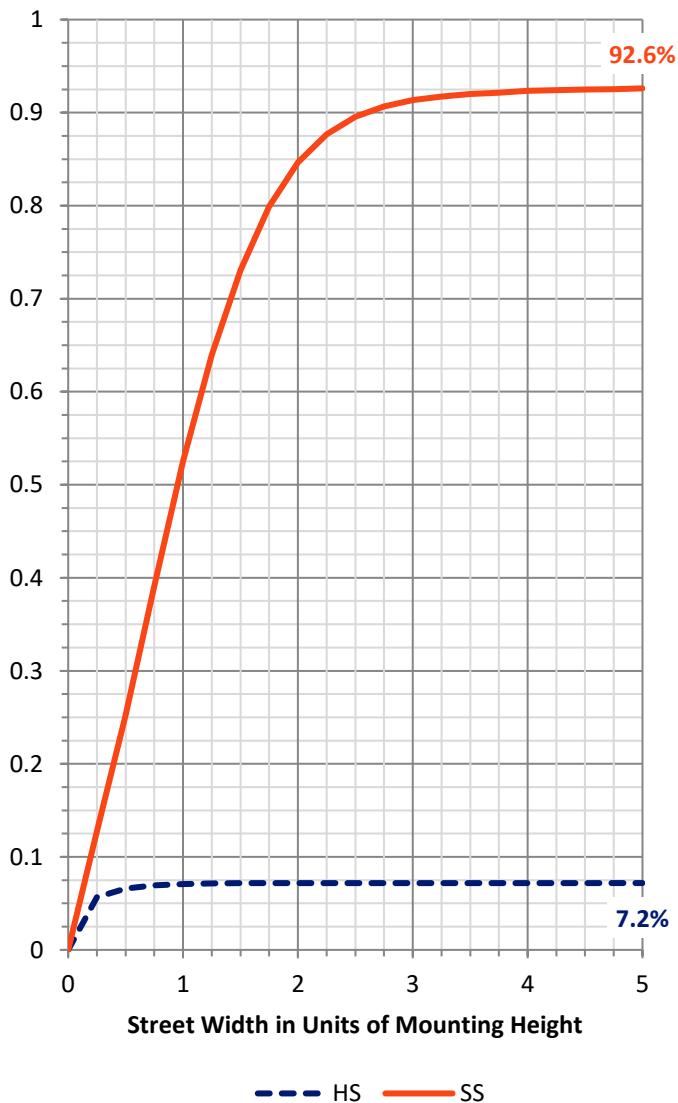
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2241.0	0.0	2241.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	28789.0	0.0	28789.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	31030.0	0.0	31030.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	1.5
10°-20°	1041.1	3.4
20°-30°	1677.7	5.4
30°-40°	2917.1	9.4
40°-50°	4820.4	15.5
50°-60°	7446.5	24.0
60°-70°	9093.2	29.3
70°-80°	3451.1	11.1
80°-90°	115.2	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°	31030.0	100.0
0°-180°	31030.0	100.0



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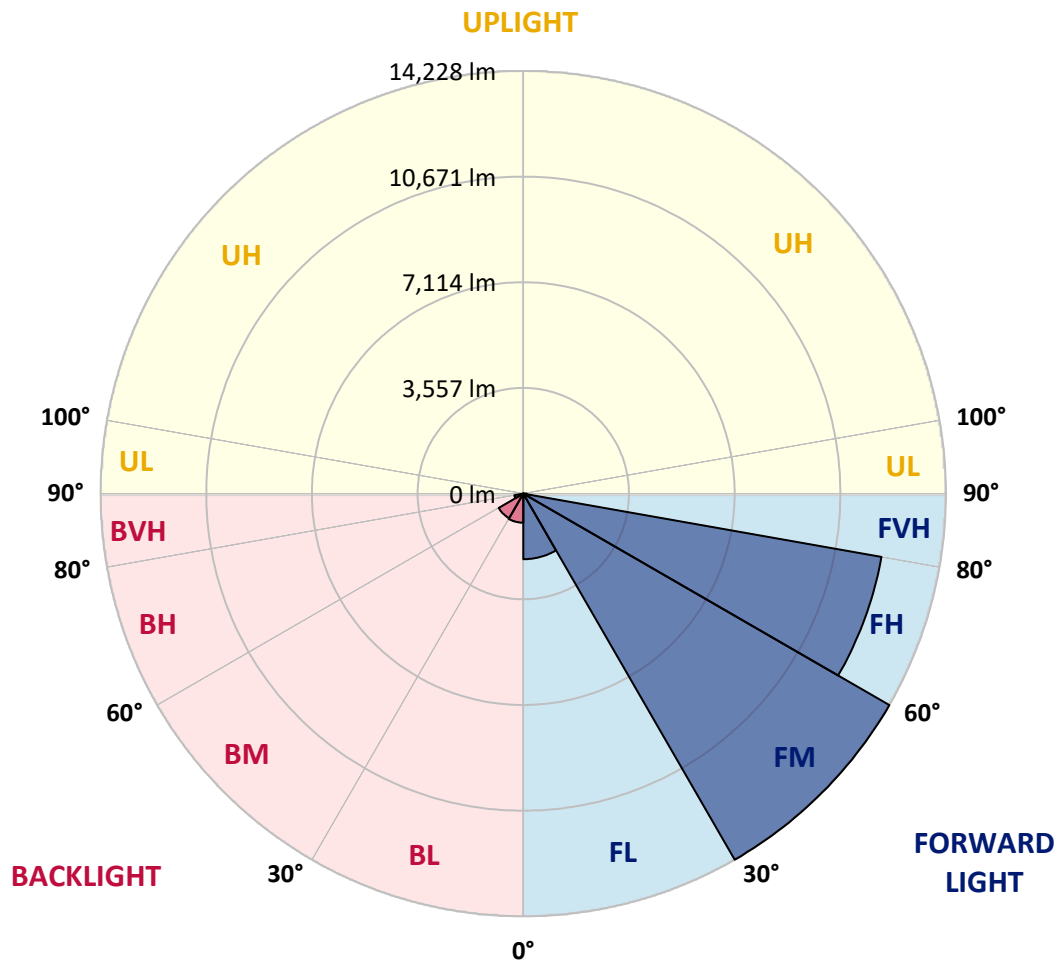
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2207.4	7.1			
FM (30°-60°)	14227.7	45.9			
FH (60°-80°)	12240.3	39.4			G5
FVH (80°-90°)	113.6	0.4			G2/225
BL (0°-30°)	979.0	3.2	B2/1000		
BM (30°-60°)	956.3	3.1	B1/1000		
BH (60°-80°)	304.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4
2.5°	5424.4	5426.6	5439.8	5472.6	5523.0	5564.6	5599.7	5656.7	5696.1	5700.5	5713.6
5°	5049.8	5023.5	5049.8	5135.2	5211.9	5328.0	5470.4	5612.8	5739.9	5748.7	5810.0
7.5°	4629.2	4651.1	4692.7	4780.3	4924.9	5102.4	5308.3	5562.5	5803.4	5825.4	5945.8
10°	4202.0	4250.2	4318.1	4451.7	4653.3	4883.3	5163.7	5527.4	5904.2	5934.9	6143.0
12.5°	3807.6	3829.5	3912.8	4092.4	4342.2	4666.4	5054.2	5507.7	6016.0	6053.2	6353.3
15°	3505.3	3533.8	3606.1	3768.2	4046.4	4462.7	4964.4	5501.1	6125.5	6178.1	6563.7
17.5°	3448.3	3465.9	3496.5	3606.1	3849.2	4300.6	4883.3	5498.9	6230.7	6294.2	6758.6
20°	3682.7	3667.4	3636.7	3625.8	3759.4	4175.7	4824.2	5516.4	6331.4	6403.7	6964.6
22.5°	4269.9	4289.6	4110.0	3897.4	3853.6	4156.0	4815.4	5599.7	6491.4	6576.8	7194.6
25°	5516.4	5365.3	5084.9	4576.6	4193.2	4276.5	4914.0	5796.9	6677.6	6771.8	7402.7
27.5°	6894.5	6848.5	6412.5	5575.6	4861.4	4530.6	5089.2	5948.0	6738.9	6835.3	7521.0
30°	8248.4	8303.2	7803.6	6879.1	5831.9	5001.6	5253.6	6005.0	6793.7	6894.5	7672.2
32.5°	9503.7	9569.4	9131.3	8215.5	6975.5	5816.6	5536.2	6226.3	7023.7	7126.7	7924.1
35°	10491.8	10500.5	10169.7	9440.2	8224.3	6806.8	6147.4	6614.0	7334.8	7455.3	8191.4
37.5°	11398.8	11385.6	10997.8	10369.1	9264.9	7790.5	6916.4	7061.0	7689.7	7814.6	8577.0
40°	12071.3	12080.1	11955.2	11363.7	10235.4	8699.7	7525.4	7479.4	8285.6	8480.6	9137.9
42.5°	12520.5	12601.5	12662.9	12362.7	11455.7	9819.2	8460.9	8375.4	9319.7	9481.8	9930.9
45°	12884.1	13028.7	13335.4	13320.1	12627.8	11192.8	9744.7	9569.4	10785.3	10958.4	10940.9
47.5°	13149.2	13296.0	13804.3	14111.0	13729.8	12524.8	11359.3	11208.2	12535.8	12724.2	12056.0
50°	13285.0	13460.3	14108.8	14702.5	14590.8	13808.6	13199.6	13208.4	14649.9	14831.8	13348.6
52.5°	12967.4	13195.2	14270.9	15340.0	15556.9	15037.7	14923.8	15213.0	16531.8	16687.4	14516.3
55°	11953.0	12240.0	14049.6	15883.3	16676.4	16488.0	16882.3	17322.7	18589.0	18689.8	15714.6
57.5°	11311.1	11615.7	13396.8	16345.6	18021.6	18310.8	18935.1	19257.2	20711.9	20968.2	17090.5
60°	10770.0	11008.8	12860.0	16444.2	19388.6	20541.0	21147.8	21480.8	23332.1	23498.6	18604.3
62.5°	9869.6	10143.4	11953.0	15756.3	20076.5	22326.5	23584.0	23435.0	25358.6	25474.7	19533.2
65°	8421.5	8445.6	10112.8	14027.7	19366.7	23485.4	25295.0	24670.7	26326.9	26405.8	19460.9
67.5°	6285.4	6517.6	7779.6	11026.3	16358.7	22495.2	25849.3	24703.5	25715.7	25496.6	17916.4
70°	4048.6	4226.1	5273.3	7645.9	11795.3	18773.0	24011.2	23010.0	22569.7	22083.3	14665.3
72.5°	1868.8	2096.6	3132.9	4368.5	6995.2	13372.7	19491.6	18694.1	16244.8	15044.3	9321.9
75°	815.0	871.9	1546.7	2304.7	3279.6	7071.9	12851.3	11604.7	7337.0	6701.7	3730.9
77.5°	497.3	534.6	810.6	1235.6	1288.2	2694.7	6922.9	5063.0	2267.5	2000.2	1012.2
80°	337.4	379.0	589.3	646.3	440.4	751.4	2598.3	1351.7	457.9	438.2	216.9
82.5°	164.3	208.1	436.0	361.5	190.6	241.0	755.8	289.2	133.6	124.9	76.7
85°	24.1	41.6	245.4	236.6	85.4	57.0	133.6	72.3	46.0	43.8	35.1
87.5°	0.0	0.0	83.3	37.2	8.8	8.8	15.3	15.3	17.5	15.3	17.5
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°	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4
2.5°	5720.2	5731.1	5689.5	5630.4	5566.8	5503.3	5413.5	5332.4	5284.2	5312.7	5242.6
5°	5823.2	5814.4	5704.9	5525.2	5286.4	4999.4	4714.6	4471.4	4392.6	4274.3	4261.1
7.5°	5965.6	5941.5	5709.2	5297.4	4758.4	4219.5	3693.7	3345.4	3146.0	2977.3	2981.7
10°	6164.9	6094.8	5658.9	4896.5	4009.2	3196.4	2526.0	2065.9	1866.6	1803.0	1752.6
12.5°	6370.9	6235.0	5518.6	4355.3	3121.9	2184.2	1535.8	1255.3	1132.6	1093.2	1088.8
15°	6554.9	6340.2	5273.3	3704.7	2269.7	1395.5	1047.2	955.2	939.9	942.0	939.9
17.5°	6736.7	6423.4	4933.7	3014.5	1542.3	1001.2	900.4	878.5	885.1	893.8	891.7
20°	6887.9	6441.0	4499.9	2300.3	1091.0	878.5	845.7	841.3	847.8	854.4	854.4
22.5°	7052.2	6454.1	3985.1	1592.7	891.7	817.2	799.6	799.6	808.4	817.2	819.4
25°	7174.9	6381.8	3369.5	1143.6	786.5	758.0	749.3	751.4	760.2	764.6	762.4
27.5°	7194.6	6178.1	2716.6	876.3	714.2	685.7	677.0	685.7	674.8	681.3	677.0
30°	7212.1	5919.6	2055.0	738.3	648.5	604.7	591.5	578.4	569.6	558.7	556.5
32.5°	7266.9	5615.0	1500.7	663.8	587.1	538.9	508.3	471.0	442.5	433.8	431.6
35°	7291.0	5249.2	1102.0	604.7	532.4	479.8	425.0	372.4	330.8	315.5	326.4
37.5°	7383.0	4894.3	854.4	560.8	484.2	418.4	348.3	282.6	243.2	234.4	238.8
40°	7571.4	4508.7	716.4	523.6	442.5	361.5	276.0	212.5	186.2	177.5	175.3
42.5°	7873.8	4125.3	637.5	488.5	400.9	304.5	216.9	166.5	144.6	138.0	138.0
45°	8241.8	3757.2	582.8	451.3	357.1	245.4	170.9	133.6	120.5	116.1	116.1
47.5°	8726.0	3435.2	536.7	414.1	308.9	195.0	138.0	116.1	107.3	109.5	111.7
50°	9216.7	3196.4	486.4	372.4	254.1	159.9	118.3	103.0	100.8	103.0	103.0
52.5°	9587.0	3056.2	418.4	315.5	199.4	133.6	105.2	96.4	94.2	89.8	89.8
55°	10086.5	3025.5	333.0	256.3	157.7	111.7	94.2	87.6	81.1	76.7	74.5
57.5°	10728.4	3060.6	256.3	199.4	122.7	92.0	83.3	72.3	63.5	54.8	54.8
60°	11127.1	2981.7	199.4	153.4	89.8	74.5	63.5	52.6	41.6	35.1	32.9
62.5°	11000.0	2648.7	157.7	113.9	63.5	54.8	41.6	35.1	24.1	17.5	15.3
65°	10345.0	2138.2	127.1	78.9	46.0	32.9	21.9	21.9	11.0	2.2	0.0
67.5°	9054.6	1584.0	100.8	52.6	26.3	15.3	11.0	6.6	0.0	0.0	0.0
70°	7369.9	1143.6	78.9	32.9	15.3	11.0	4.4	2.2	0.0	0.0	0.0
72.5°	4679.6	655.1	61.3	19.7	11.0	4.4	0.0	0.0	0.0	0.0	0.0
75°	1809.6	256.3	41.6	13.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	512.6	120.5	24.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	133.6	52.6	13.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.5	21.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.2	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	2.2	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)