

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: P456307

Luminaire Tested: **GALN-SA7C-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35424 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

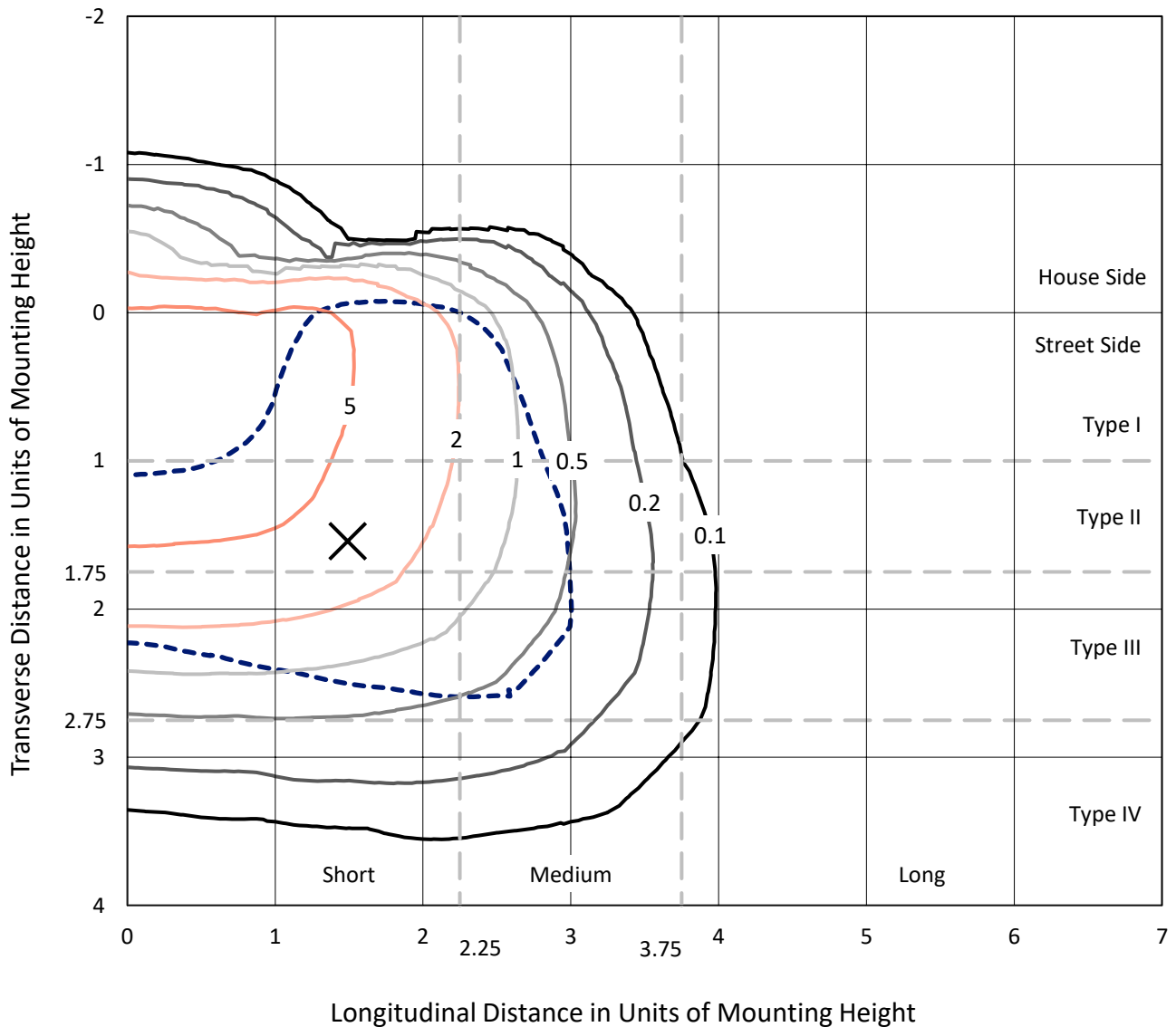
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456307
 CATALOG NUMBER: GALN-SA7C-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

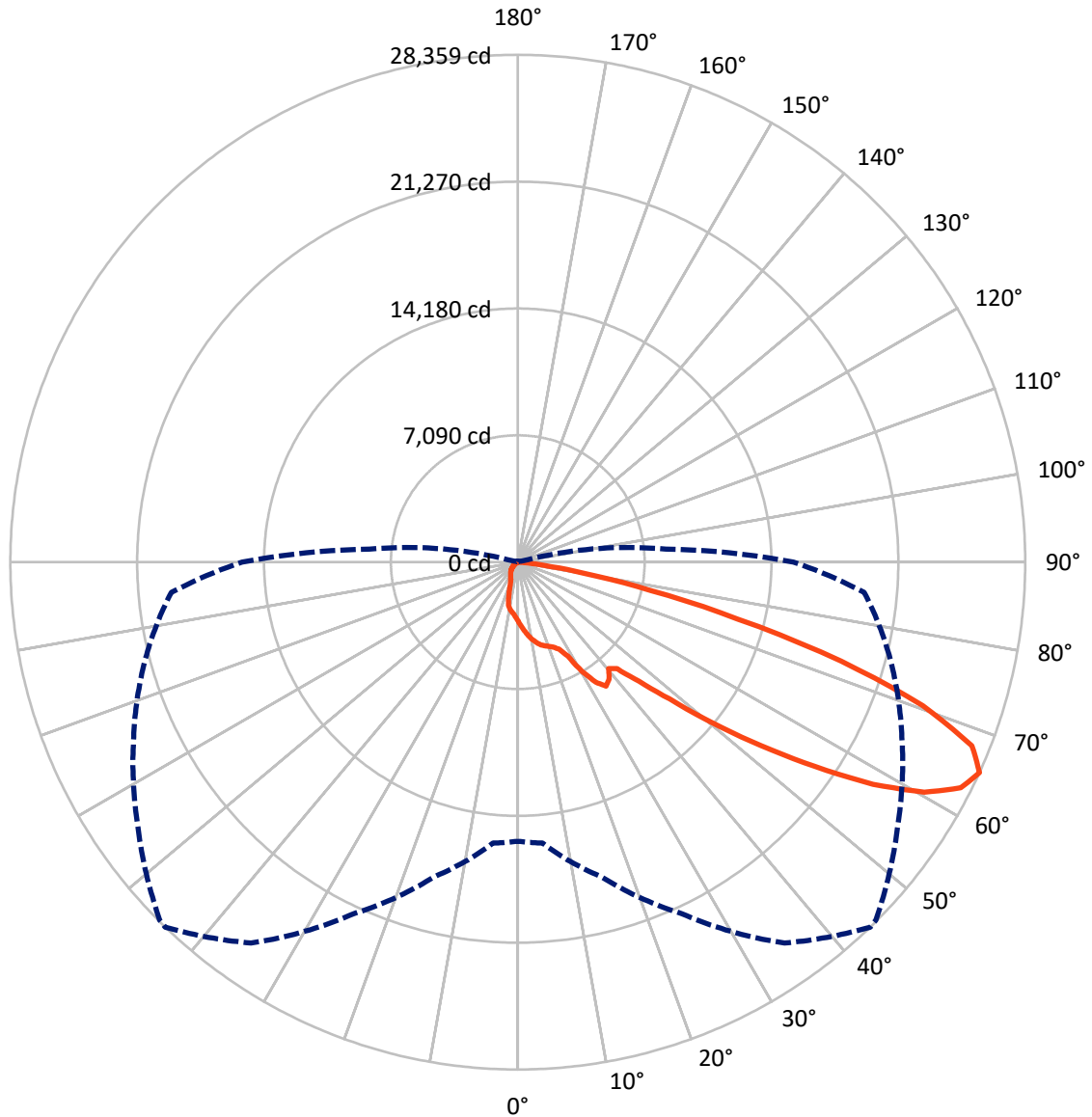
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

REPORT NUMBER: P456307
CATALOG NUMBER: GALN-SA7C-740-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P456307
 CATALOG NUMBER: GALN-SA7C-740-U-T4W-HSS

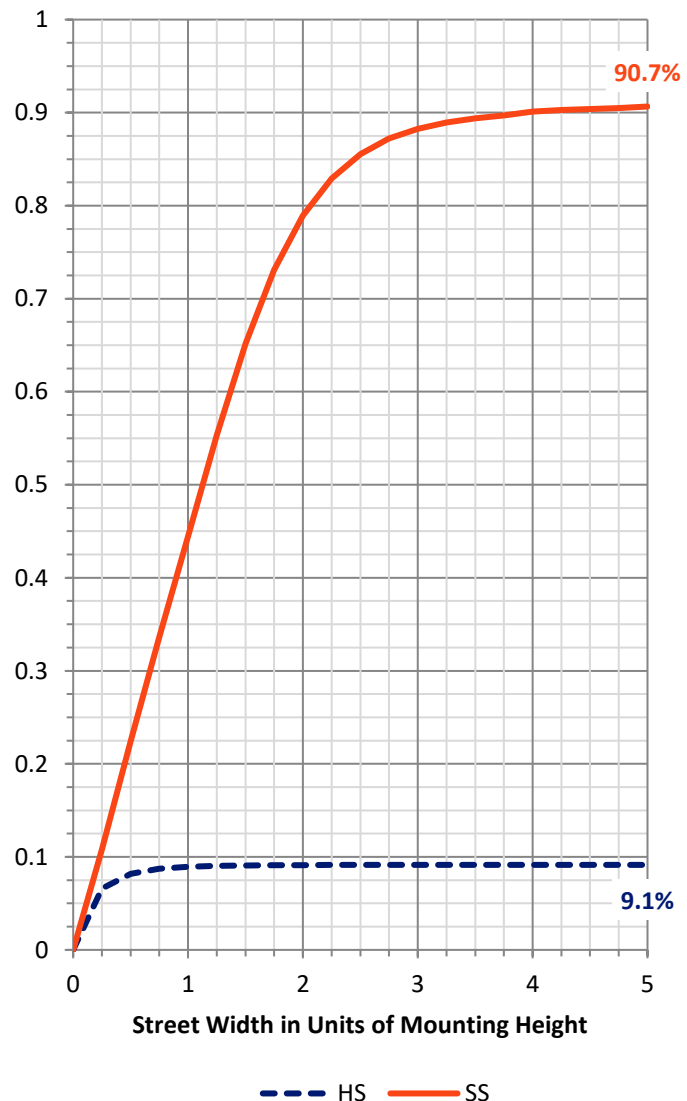
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3263.8	0.0	3263.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	32160.2	0.0	32160.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	35424.0	0.0	35424.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.9	0.9
10°-20°	986.9	2.8
20°-30°	1673.4	4.7
30°-40°	2782.4	7.9
40°-50°	4858.1	13.7
50°-60°	9491.0	26.8
60°-70°	11011.8	31.1
70°-80°	4009.9	11.3
80°-90°	282.5	0.8
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°	35424.0	100.0
0°-180°	35424.0	100.0



REPORT NUMBER: P456307

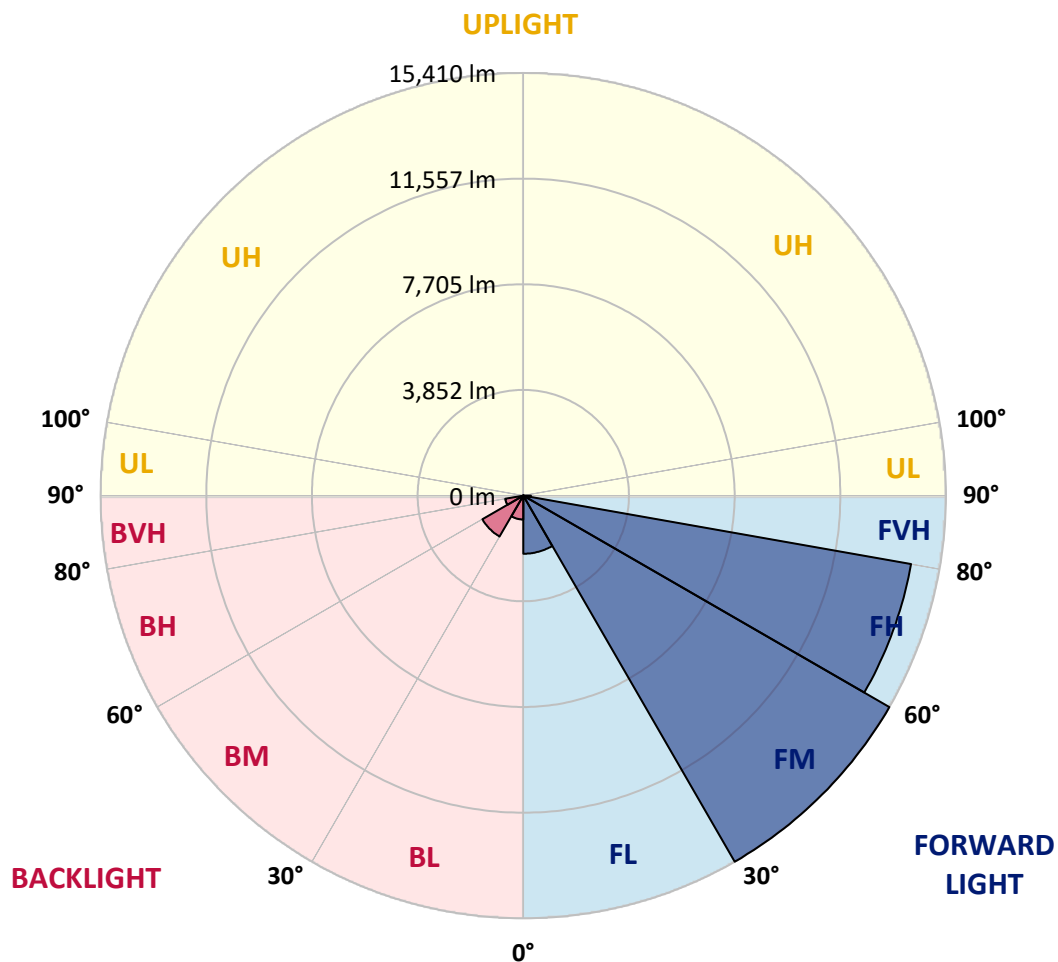
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2118.7	6.0			
FM	(30°-60°)	15409.5	43.5			
FH	(60°-80°)	14353.3	40.5			G5
FVH	(80°-90°)	278.7	0.8			G3/500
BL	(0°-30°)	869.6	2.5	B2/1000		
BM	(30°-60°)	1722.0	4.9	B2/2500		
BH	(60°-80°)	668.4	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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-G5

Type III Short





REPORT NUMBER: P456307

CATALOG NUMBER: GALN-SA7C-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9
2.5°	3711.1	3694.8	3686.7	3643.4	3610.9	3570.3	3570.3	3518.9	3459.3	3394.4	3334.8
5°	4125.2	4098.1	4063.0	4025.1	3949.3	3841.0	3841.0	3732.7	3608.2	3497.2	3375.4
7.5°	4523.1	4498.8	4439.2	4366.1	4241.6	4127.9	4119.8	3962.8	3813.9	3646.1	3472.9
10°	4872.3	4853.3	4801.9	4661.2	4531.2	4382.4	4379.6	4203.7	4030.5	3824.7	3610.9
12.5°	5115.9	5118.6	5050.9	4915.6	4747.8	4607.0	4596.2	4423.0	4241.6	4019.6	3757.1
15°	5289.1	5289.1	5218.8	5067.2	4915.6	4791.1	4780.3	4628.7	4441.9	4201.0	3916.8
17.5°	5337.9	5354.1	5278.3	5143.0	5021.2	4912.9	4910.2	4783.0	4634.1	4401.3	4079.2
20°	5318.9	5335.2	5275.6	5170.0	5086.1	5023.9	5015.8	4964.3	4826.3	4607.0	4252.4
22.5°	5278.3	5294.6	5251.2	5189.0	5148.4	5167.3	5153.8	5197.1	5124.0	4858.8	4458.1
25°	5286.4	5302.7	5270.2	5235.0	5270.2	5386.6	5421.8	5608.6	5543.6	5178.2	4680.1
27.5°	5540.9	5573.4	5527.3	5543.6	5668.1	5938.8	6006.5	6328.6	6041.6	5584.2	5026.6
30°	6106.6	6085.0	5998.3	6076.8	6509.9	7083.8	7064.8	7013.4	6564.1	6052.5	5438.0
32.5°	6620.9	6602.0	6596.5	6934.9	7719.9	7998.7	7985.1	7487.1	7032.3	6588.4	5844.0
35°	6829.3	6756.2	6740.0	7560.2	8873.0	8504.9	8420.9	7682.0	7600.8	7173.1	6258.2
37.5°	7457.3	7405.9	7154.1	7663.0	8412.8	8291.0	8226.1	8017.6	8207.1	7690.1	6726.5
40°	8751.2	8607.7	8380.3	7882.3	7760.5	7811.9	7876.9	8448.0	8924.4	8396.6	7351.7
42.5°	10359.0	10326.6	9904.3	8975.8	8063.6	8134.0	8217.9	9346.7	9955.7	9460.4	8372.2
45°	12289.0	12335.0	11726.0	10629.7	9433.3	9492.8	9614.7	10673.0	11352.4	11114.2	9977.4
47.5°	14043.0	14007.8	13802.1	12662.5	11558.2	11425.5	11623.1	12375.6	13285.1	13323.0	11969.6
50°	15807.9	15994.7	15688.8	15242.2	14422.0	14143.2	14070.1	14438.2	15824.1	15642.8	14362.4
52.5°	18344.2	18441.6	17867.8	17754.1	17940.9	17036.8	16963.7	17053.0	18292.8	17670.2	16154.4
55°	19938.5	19881.7	19667.8	20555.7	21294.6	20165.9	20073.8	19713.8	20341.8	19102.1	17878.6
57.5°	20442.0	20523.2	21021.2	22626.4	24375.0	23416.8	23249.0	22225.8	21819.8	20436.6	19464.8
60°	20217.3	20366.2	21440.8	23828.2	26253.5	26110.1	25966.6	24247.8	22880.8	21551.8	20577.3
62.5°	18617.6	18826.0	20544.8	23614.4	26889.6	27785.6	27607.0	25509.2	23587.3	22093.1	20772.2
65°	15602.2	15756.5	18225.1	21673.6	25985.6	28359.4	28294.5	25904.4	23698.3	21597.8	19437.7
67.5°	11122.4	11647.5	13934.8	18265.7	23311.2	27379.6	27490.6	25430.7	22656.2	19456.7	16097.5
70°	6991.7	7349.0	8989.4	13076.7	18687.9	24020.4	24385.8	23262.5	19662.4	15166.4	10775.9
72.5°	3334.8	3600.1	4769.4	8277.5	13190.4	18899.1	19188.7	19096.7	15204.3	9555.1	5559.8
75°	1486.0	1586.2	2276.4	4225.4	8515.7	12703.1	13452.9	13577.5	9501.0	4674.7	2162.8
77.5°	757.9	760.6	1066.5	2046.4	4252.4	7579.1	7728.0	8163.8	5151.1	2059.9	752.5
80°	403.3	430.4	565.7	966.3	2206.1	3732.7	3713.8	4081.9	2284.6	1009.6	251.7
82.5°	181.4	200.3	319.4	506.2	1077.3	1415.7	1526.7	1670.1	979.9	644.2	111.0
85°	54.1	65.0	157.0	254.4	389.8	408.7	457.5	590.1	554.9	457.5	56.8
87.5°	8.1	8.1	65.0	70.4	56.8	73.1	75.8	83.9	178.7	167.8	29.8
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: P456307

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9	3296.9
2.5°	3302.3	3283.4	3215.7	3158.9	3110.1	3080.4	3045.2	3023.5	3012.7	3004.6	3007.3
5°	3315.9	3269.8	3153.5	3061.4	2991.0	2915.3	2863.8	2834.1	2820.5	2798.9	2798.9
7.5°	3391.7	3318.6	3156.2	3015.4	2893.6	2790.7	2693.3	2658.1	2633.7	2628.3	2622.9
10°	3499.9	3407.9	3185.9	2991.0	2817.8	2677.1	2539.0	2417.2	2322.5	2265.6	2257.5
12.5°	3635.3	3502.6	3232.0	2974.8	2752.8	2503.8	2138.4	1892.1	1727.0	1675.5	1683.6
15°	3759.8	3616.3	3278.0	2961.3	2633.7	2076.1	1662.0	1380.5	1296.6	1288.5	1291.2
17.5°	3908.7	3738.1	3332.1	2942.3	2306.2	1586.2	1234.3	1158.5	1174.8	1201.8	1199.1
20°	4063.0	3868.1	3397.1	2828.6	1840.6	1193.7	1090.9	1099.0	1123.3	1147.7	1153.1
22.5°	4228.1	4016.9	3472.9	2555.2	1404.8	1039.4	1034.0	1044.8	1069.2	1096.3	1101.7
25°	4455.4	4203.7	3529.7	2197.9	1063.8	960.9	971.8	990.7	1012.4	1042.1	1047.5
27.5°	4747.8	4455.4	3559.5	1732.4	920.3	890.5	893.3	920.3	947.4	974.5	974.5
30°	5126.7	4755.9	3499.9	1310.1	849.9	822.9	812.0	828.3	863.5	890.5	893.3
32.5°	5465.1	5040.1	3342.9	1001.5	798.5	760.6	733.6	736.3	749.8	766.0	768.7
35°	5803.4	5316.2	3075.0	841.8	744.4	701.1	660.5	638.8	628.0	619.9	628.0
37.5°	6236.5	5660.0	2717.7	766.0	698.4	644.2	587.4	541.4	503.5	479.1	484.5
40°	6794.1	6136.4	2295.4	717.3	655.1	590.1	514.3	454.7	389.8	368.1	357.3
42.5°	7714.5	6859.1	1851.5	676.7	611.7	533.2	438.5	357.3	297.8	276.1	281.5
45°	9168.0	7771.3	1426.5	633.4	568.4	471.0	368.1	281.5	232.8	222.0	227.4
47.5°	11095.3	8951.5	1099.0	584.7	514.3	403.3	289.6	222.0	192.2	189.5	186.8
50°	12908.9	10050.5	917.6	530.5	449.3	335.6	238.2	186.8	167.8	165.1	165.1
52.5°	14549.2	10838.1	747.1	468.3	379.0	276.1	200.3	165.1	148.9	140.8	140.8
55°	16008.2	11352.4	606.3	392.5	297.8	219.3	173.2	148.9	129.9	119.1	116.4
57.5°	17109.9	11414.7	454.7	314.0	222.0	170.5	148.9	129.9	108.3	94.7	89.3
60°	17580.9	10876.0	335.6	238.2	165.1	135.3	119.1	105.6	81.2	67.7	65.0
62.5°	17107.2	9828.5	249.0	181.4	127.2	100.2	83.9	78.5	56.8	40.6	37.9
65°	15410.0	8315.4	197.6	138.0	94.7	73.1	54.1	51.4	35.2	18.9	16.2
67.5°	12345.8	6512.6	157.0	102.9	67.7	48.7	35.2	32.5	18.9	5.4	5.4
70°	8028.5	4163.1	127.2	75.8	43.3	32.5	21.7	16.2	10.8	2.7	0.0
72.5°	3970.9	1946.2	102.9	59.6	29.8	16.2	8.1	5.4	8.1	0.0	0.0
75°	1540.2	692.9	75.8	40.6	16.2	8.1	5.4	0.0	2.7	0.0	0.0
77.5°	511.6	230.1	46.0	21.7	10.8	5.4	0.0	0.0	0.0	0.0	0.0
80°	189.5	89.3	24.4	13.5	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	75.8	35.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.9	21.7	10.8	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.1	16.2	10.8	8.1	5.4	2.7	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)