

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: P459294

Luminaire Tested: **GALN-SA7C-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459294
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-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 32999 lumens
Efficiency: N/A
Efficacy: 87.5 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

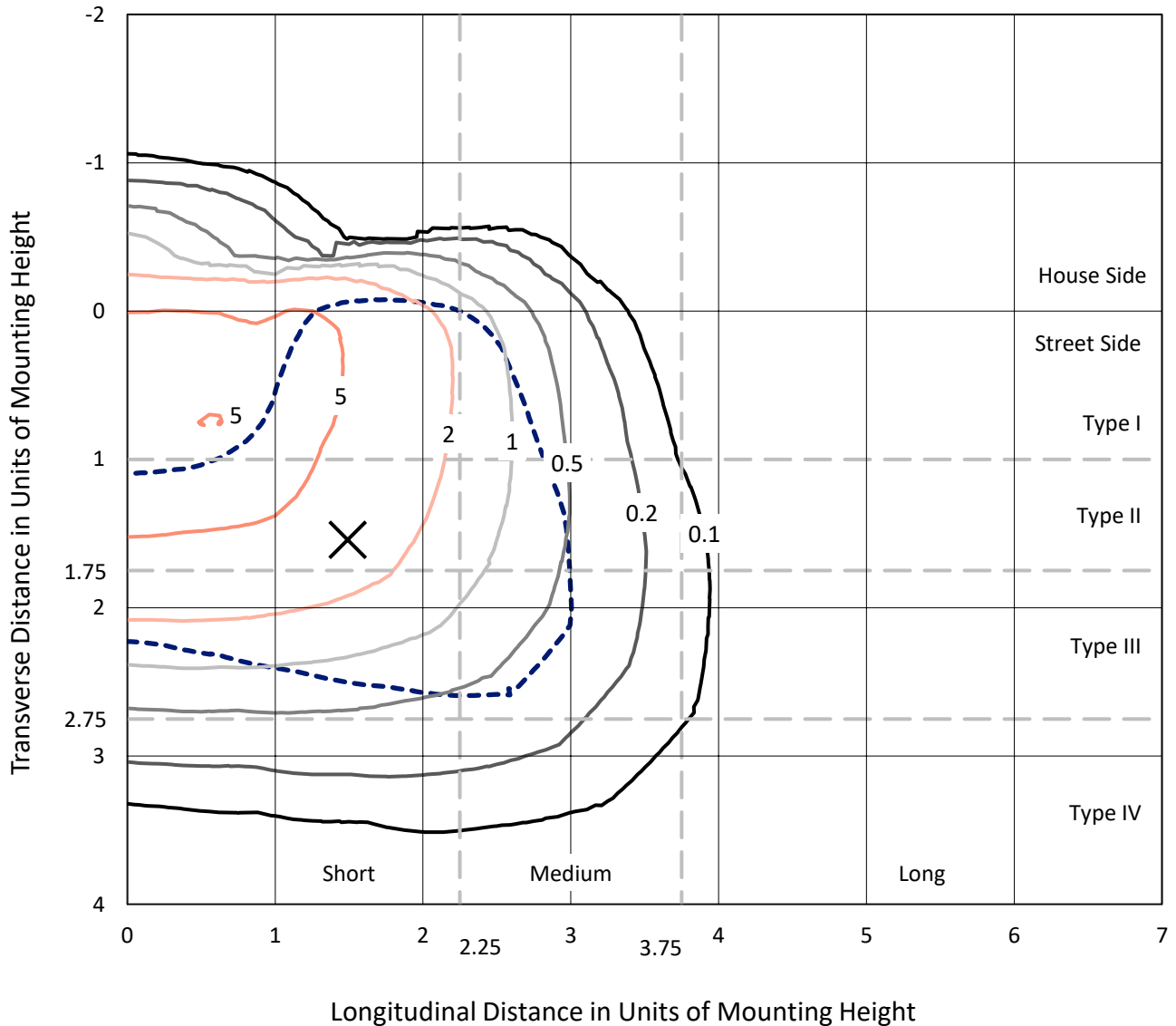
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

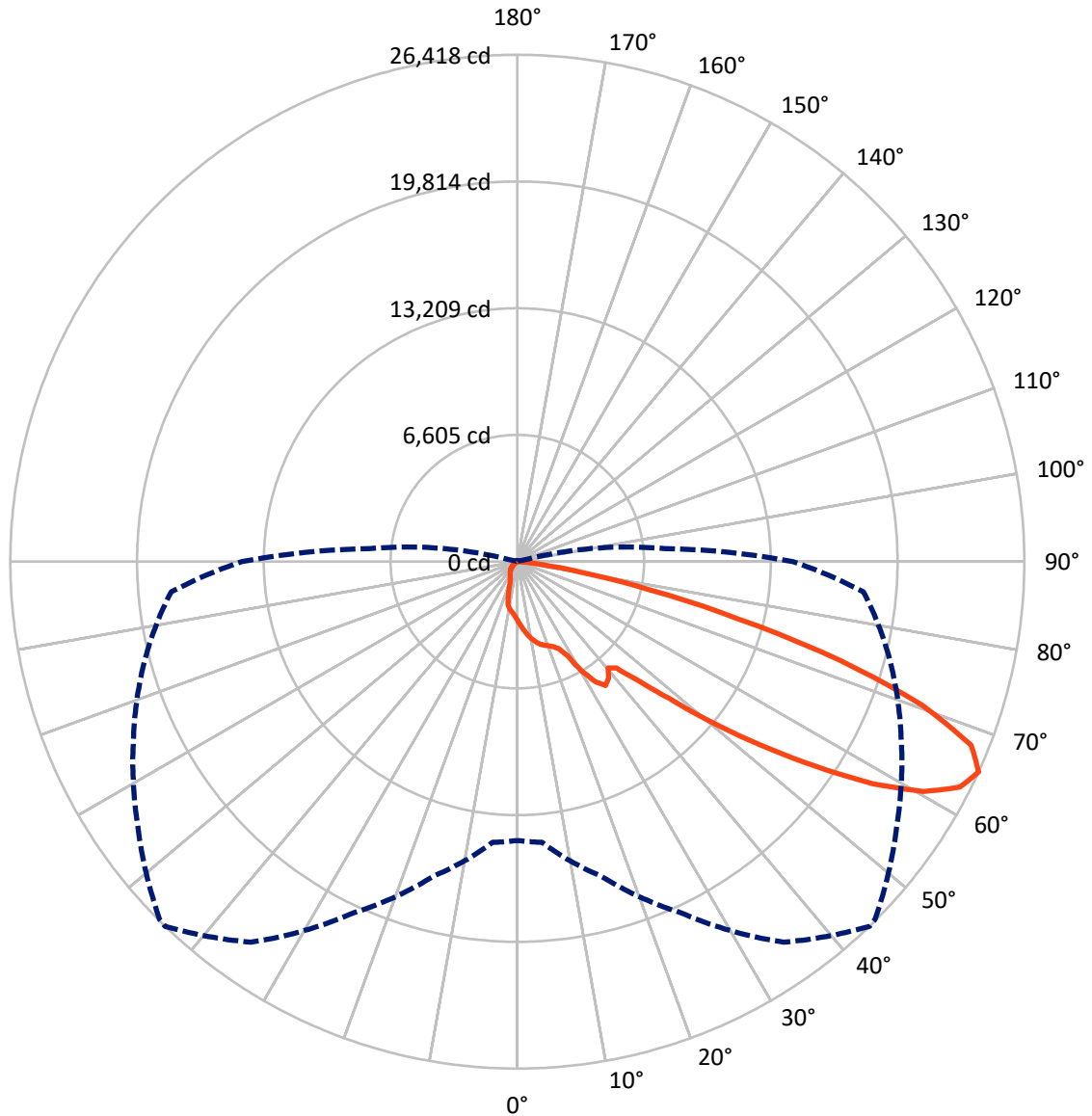
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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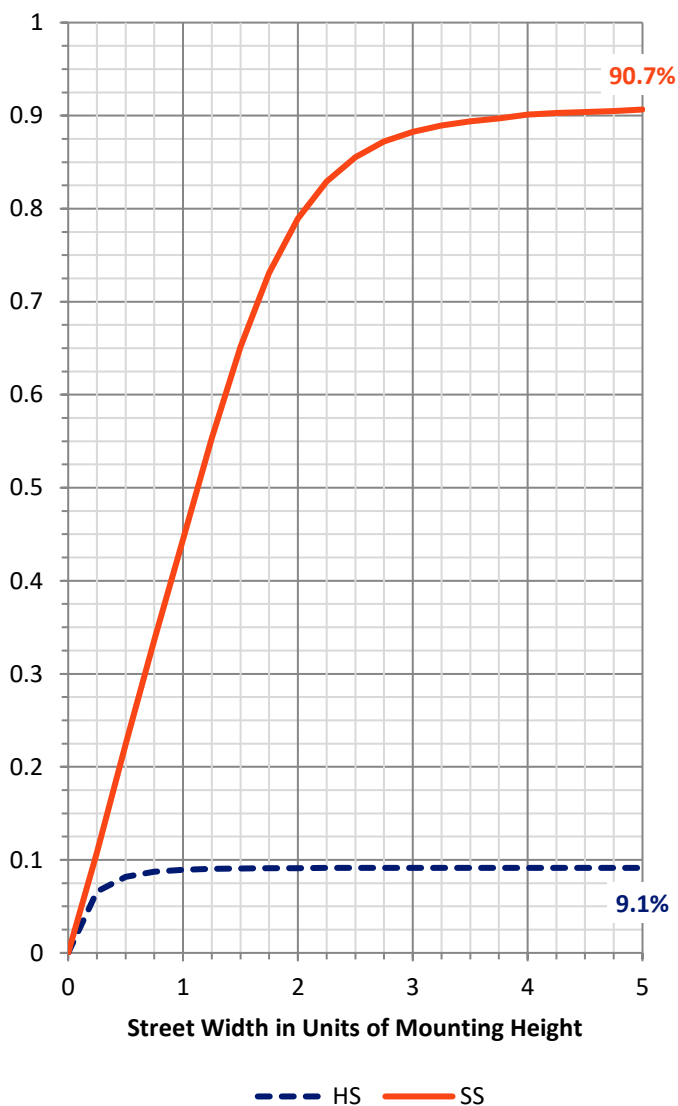
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3040.4	0.0	3040.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	29958.6	0.0	29958.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	32999.0	0.0	32999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.5	0.9
10°-20°	919.3	2.8
20°-30°	1558.9	4.7
30°-40°	2591.9	7.9
40°-50°	4525.5	13.7
50°-60°	8841.3	26.8
60°-70°	10257.9	31.1
70°-80°	3735.4	11.3
80°-90°	263.2	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°	32999.0	100.0
0°-180°	32999.0	100.0

Coefficient of Utilization



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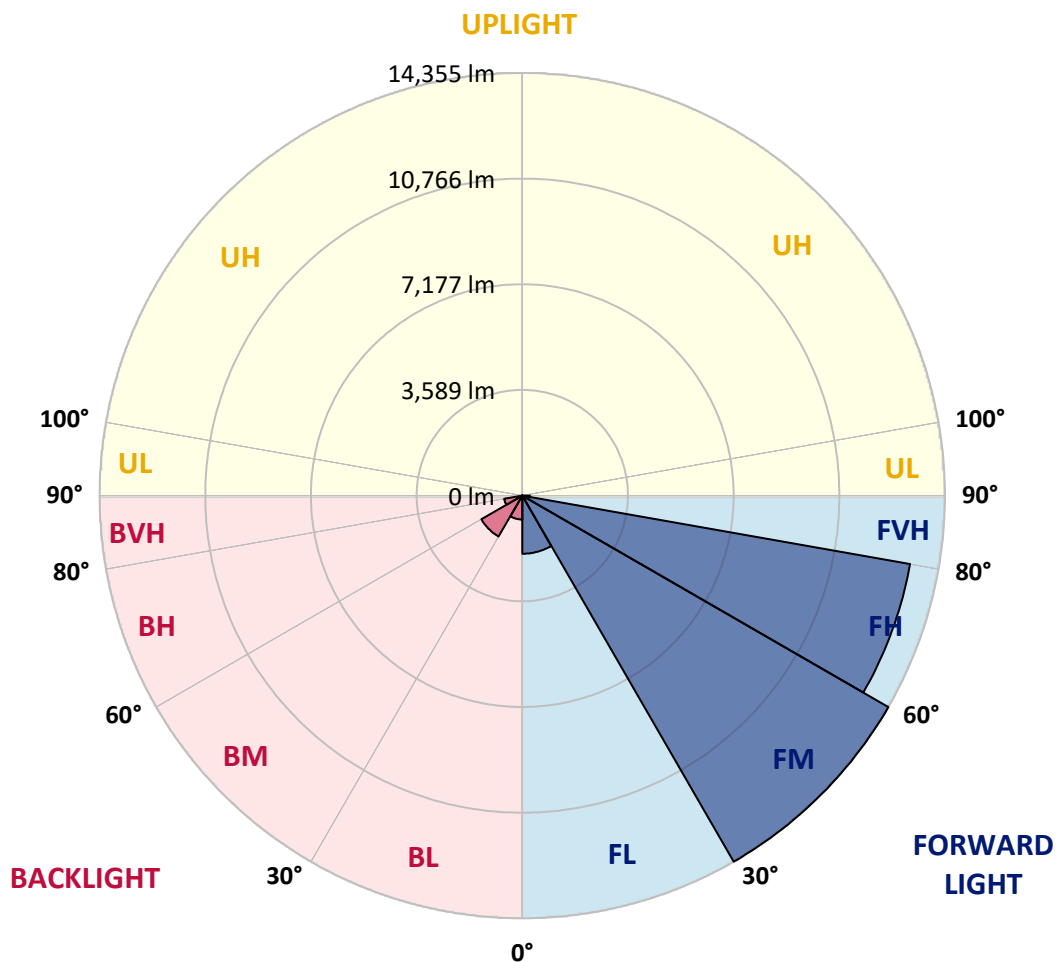
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1973.6	6.0			
FM	(30°-60°)	14354.6	43.5			
FH	(60°-80°)	13370.8	40.5			G5
FVH	(80°-90°)	259.6	0.8			G3/500
BL	(0°-30°)	810.1	2.5	B2/1000		
BM	(30°-60°)	1604.1	4.9	B2/2500		
BH	(60°-80°)	622.6	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.6	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°	44°	45°	55°	65°	75°	85°
0°	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2
2.5°	3457.0	3441.9	3434.3	3394.0	3363.7	3325.9	3325.9	3278.0	3222.5	3162.0	3106.5
5°	3842.8	3817.6	3784.8	3749.5	3678.9	3578.1	3578.1	3477.2	3361.2	3257.8	3144.3
7.5°	4213.5	4190.8	4135.3	4067.2	3951.2	3845.3	3837.8	3691.5	3552.8	3396.5	3235.1
10°	4538.8	4521.1	4473.2	4342.1	4221.0	4082.4	4079.8	3915.9	3754.6	3562.9	3363.7
12.5°	4765.7	4768.2	4705.2	4579.1	4422.8	4291.6	4281.6	4120.2	3951.2	3744.5	3499.9
15°	4927.1	4927.1	4861.5	4720.3	4579.1	4463.1	4453.0	4311.8	4137.8	3913.4	3648.7
17.5°	4972.5	4987.6	4917.0	4790.9	4677.4	4576.6	4574.1	4455.5	4316.9	4100.0	3799.9
20°	4954.8	4969.9	4914.5	4816.1	4738.0	4680.0	4672.4	4624.5	4495.9	4291.6	3961.3
22.5°	4917.0	4932.1	4891.8	4833.8	4795.9	4813.6	4801.0	4841.3	4773.3	4526.1	4153.0
25°	4924.5	4939.7	4909.4	4876.6	4909.4	5017.8	5050.6	5224.6	5164.1	4823.7	4359.7
27.5°	5161.6	5191.8	5149.0	5164.1	5280.1	5532.2	5595.3	5895.3	5628.1	5201.9	4682.5
30°	5688.6	5668.4	5587.7	5660.8	6064.3	6598.8	6581.2	6533.3	6114.7	5638.1	5065.8
32.5°	6167.7	6150.0	6145.0	6460.2	7191.4	7451.1	7438.5	6974.6	6550.9	6137.4	5444.0
35°	6361.8	6293.7	6278.6	7042.6	8265.6	7922.6	7844.5	7156.1	7080.5	6682.1	5829.8
37.5°	6946.8	6898.9	6664.4	7138.4	7836.9	7723.4	7662.9	7468.8	7645.3	7163.7	6266.0
40°	8152.1	8018.5	7806.7	7342.7	7229.2	7277.1	7337.7	7869.7	8313.5	7821.8	6848.5
42.5°	9649.9	9619.6	9226.3	8361.4	7511.6	7577.2	7655.4	8706.8	9274.2	8812.7	7799.1
45°	11447.7	11490.6	10923.3	9902.0	8787.5	8843.0	8956.5	9942.4	10575.3	10353.4	9294.4
47.5°	13081.7	13048.9	12857.3	11795.7	10766.9	10643.4	10827.4	11528.4	12375.7	12411.0	11150.2
50°	14725.7	14899.7	14614.8	14198.7	13434.7	13175.0	13106.9	13449.8	14740.9	14571.9	13379.2
52.5°	17088.4	17179.2	16644.6	16538.7	16712.7	15870.5	15802.4	15885.6	17040.5	16460.5	15048.5
55°	18573.6	18520.6	18321.4	19148.5	19836.9	18785.4	18699.7	18364.3	18949.3	17794.4	16654.7
57.5°	19042.6	19118.2	19582.2	21077.5	22706.4	21813.8	21657.4	20704.3	20326.0	19037.5	18132.3
60°	18833.3	18972.0	19973.0	22197.0	24456.3	24322.7	24189.0	22587.9	21314.5	20076.4	19168.7
62.5°	17343.1	17537.2	19138.4	21997.8	25048.9	25883.5	25717.1	23762.9	21972.6	20580.7	19350.2
65°	14534.1	14677.8	16977.5	20189.9	24206.7	26418.1	26357.5	24131.0	22076.0	20119.3	18107.1
67.5°	10361.0	10850.1	12980.8	17015.3	21715.4	25505.3	25608.7	23689.8	21105.2	18124.8	14995.5
70°	6513.1	6846.0	8374.0	12181.5	17408.6	22376.1	22716.5	21670.0	18316.4	14128.1	10038.2
72.5°	3106.5	3353.6	4442.9	7710.8	12287.4	17605.3	17875.1	17789.4	14163.4	8901.0	5179.2
75°	1384.3	1477.6	2120.6	3936.1	7932.7	11833.5	12532.0	12648.0	8850.6	4354.7	2014.7
77.5°	706.0	708.5	993.5	1906.3	3961.3	7060.3	7199.0	7604.9	4798.5	1918.9	701.0
80°	375.7	400.9	527.0	900.2	2055.0	3477.2	3459.5	3802.5	2128.2	940.5	234.5
82.5°	168.9	186.6	297.5	471.5	1003.6	1318.8	1422.1	1555.8	912.8	600.1	103.4
85°	50.4	60.5	146.2	237.0	363.1	380.8	426.1	549.7	516.9	426.1	53.0
87.5°	7.6	7.6	60.5	65.6	53.0	68.1	70.6	78.2	166.4	156.3	27.7
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°	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2	3071.2
2.5°	3076.3	3058.6	2995.6	2942.6	2897.2	2869.5	2836.7	2816.5	2806.5	2798.9	2801.4
5°	3088.9	3046.0	2937.6	2851.8	2786.3	2715.7	2667.8	2640.0	2627.4	2607.3	2607.3
7.5°	3159.5	3091.4	2940.1	2809.0	2695.5	2599.7	2508.9	2476.1	2453.4	2448.4	2443.4
10°	3260.3	3174.6	2967.8	2786.3	2624.9	2493.8	2365.2	2251.7	2163.5	2110.5	2103.0
12.5°	3386.4	3262.9	3010.7	2771.2	2564.4	2332.4	1992.0	1762.5	1608.7	1560.8	1568.4
15°	3502.4	3368.8	3053.6	2758.6	2453.4	1934.0	1548.2	1286.0	1207.8	1200.2	1202.8
17.5°	3641.1	3482.2	3104.0	2740.9	2148.3	1477.6	1149.8	1079.2	1094.3	1119.6	1117.0
20°	3784.8	3603.3	3164.5	2635.0	1714.6	1112.0	1016.2	1023.7	1046.4	1069.1	1074.2
22.5°	3938.6	3741.9	3235.1	2380.3	1308.7	968.3	963.2	973.3	996.0	1021.2	1026.3
25°	4150.4	3915.9	3288.1	2047.5	991.0	895.1	905.2	922.9	943.1	970.8	975.8
27.5°	4422.8	4150.4	3315.8	1613.8	857.3	829.6	832.1	857.3	882.5	907.8	907.8
30°	4775.8	4430.3	3260.3	1220.4	791.8	766.5	756.5	771.6	804.4	829.6	832.1
32.5°	5091.0	4695.1	3114.1	933.0	743.9	708.5	683.3	685.9	698.5	713.6	716.1
35°	5406.2	4952.3	2864.5	784.2	693.4	653.1	615.3	595.1	585.0	577.4	585.0
37.5°	5809.6	5272.5	2531.6	713.6	650.6	600.1	547.2	504.3	469.0	446.3	451.4
40°	6329.0	5716.3	2138.3	668.2	610.2	549.7	479.1	423.6	363.1	342.9	332.8
42.5°	7186.4	6389.6	1724.7	630.4	569.9	496.7	408.5	332.8	277.4	257.2	262.2
45°	8540.4	7239.3	1328.8	590.0	529.5	438.7	342.9	262.2	216.9	206.8	211.8
47.5°	10335.7	8338.7	1023.7	544.7	479.1	375.7	269.8	206.8	179.0	176.5	174.0
50°	12025.2	9362.4	854.8	494.2	418.6	312.7	221.9	174.0	156.3	153.8	153.8
52.5°	13553.2	10096.2	695.9	436.2	353.0	257.2	186.6	153.8	138.7	131.1	131.1
55°	14912.3	10575.3	564.8	365.6	277.4	204.2	161.4	138.7	121.0	110.9	108.4
57.5°	15938.6	10633.3	423.6	292.5	206.8	158.9	138.7	121.0	100.9	88.3	83.2
60°	16377.3	10131.5	312.7	221.9	153.8	126.1	110.9	98.3	75.6	63.0	60.5
62.5°	15936.1	9155.7	232.0	168.9	118.5	93.3	78.2	73.1	53.0	37.8	35.3
65°	14355.1	7746.1	184.1	128.6	88.3	68.1	50.4	47.9	32.8	17.7	15.1
67.5°	11500.7	6066.8	146.2	95.8	63.0	45.4	32.8	30.3	17.7	5.0	5.0
70°	7478.9	3878.1	118.5	70.6	40.3	30.3	20.2	15.1	10.1	2.5	0.0
72.5°	3699.1	1813.0	95.8	55.5	27.7	15.1	7.6	5.0	7.6	0.0	0.0
75°	1434.8	645.5	70.6	37.8	15.1	7.6	5.0	0.0	2.5	0.0	0.0
77.5°	476.6	214.3	42.9	20.2	10.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	176.5	83.2	22.7	12.6	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	70.6	32.8	15.1	10.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.3	20.2	10.1	7.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.2	15.1	10.1	7.6	5.0	2.5	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)