

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: P651541

Luminaire Tested: **GALN-SA7D-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651541
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-SA7D-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA 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: 32781.3 lumens
Efficiency: N/A
Efficacy: 75.7 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

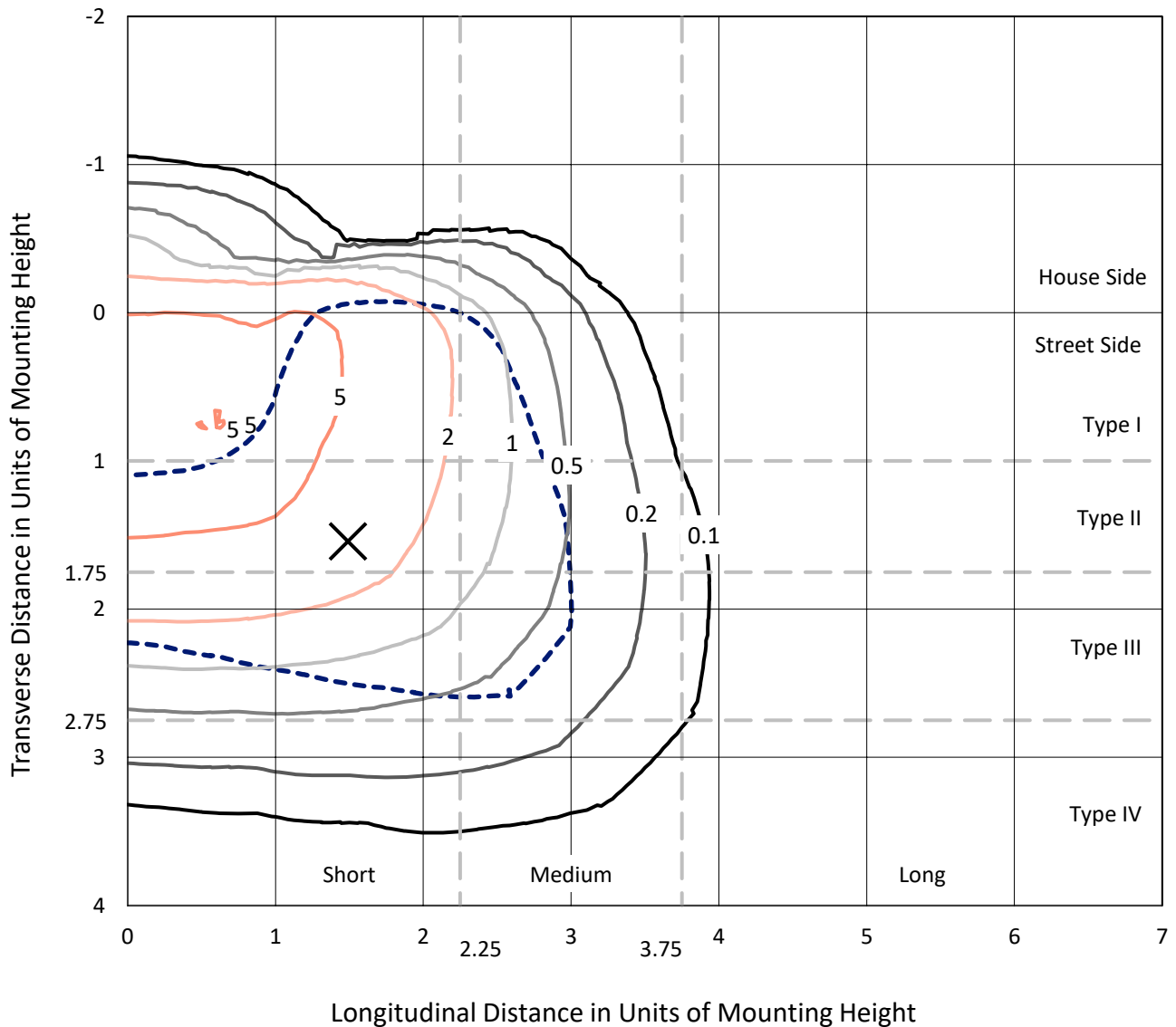
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

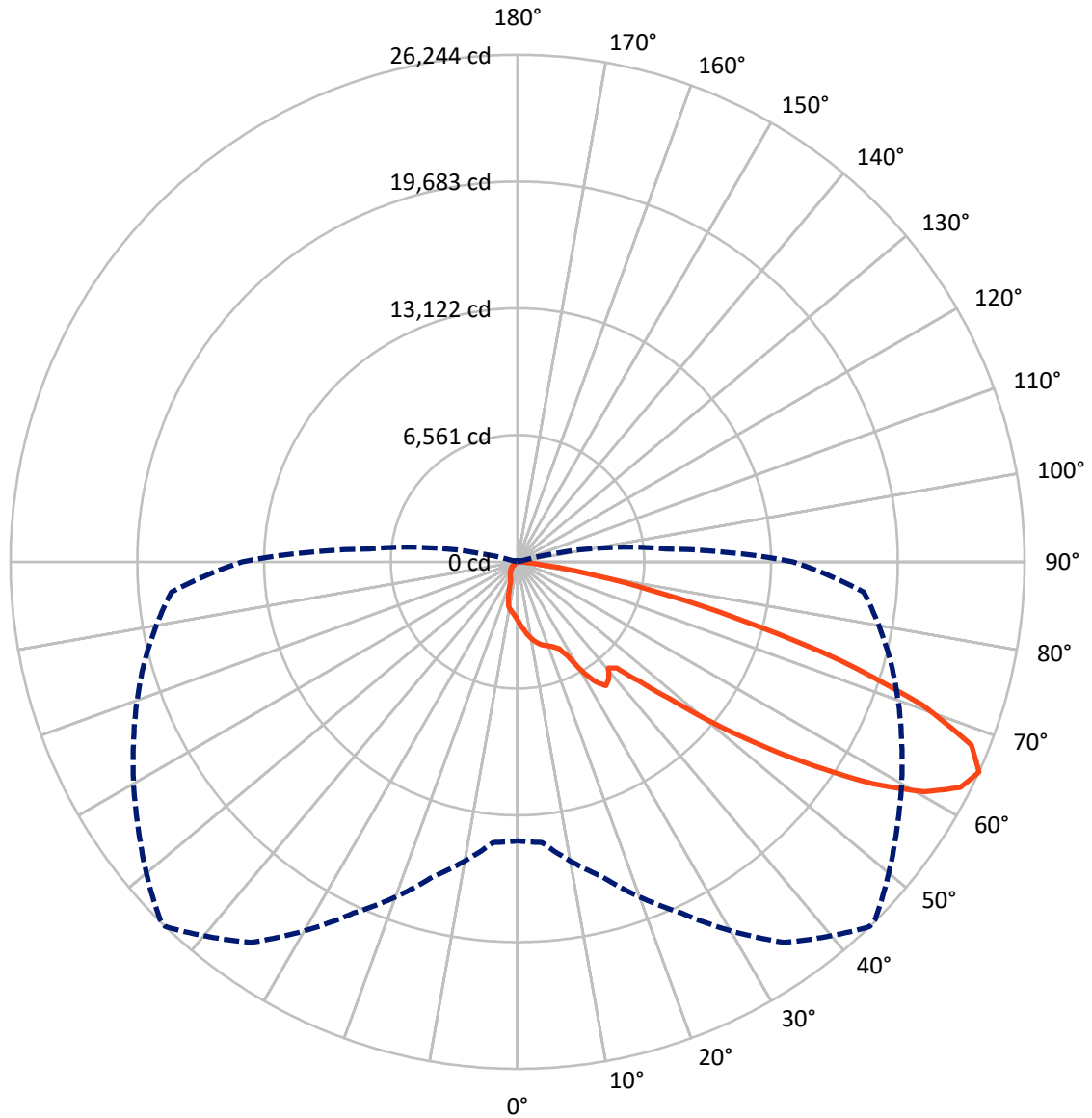
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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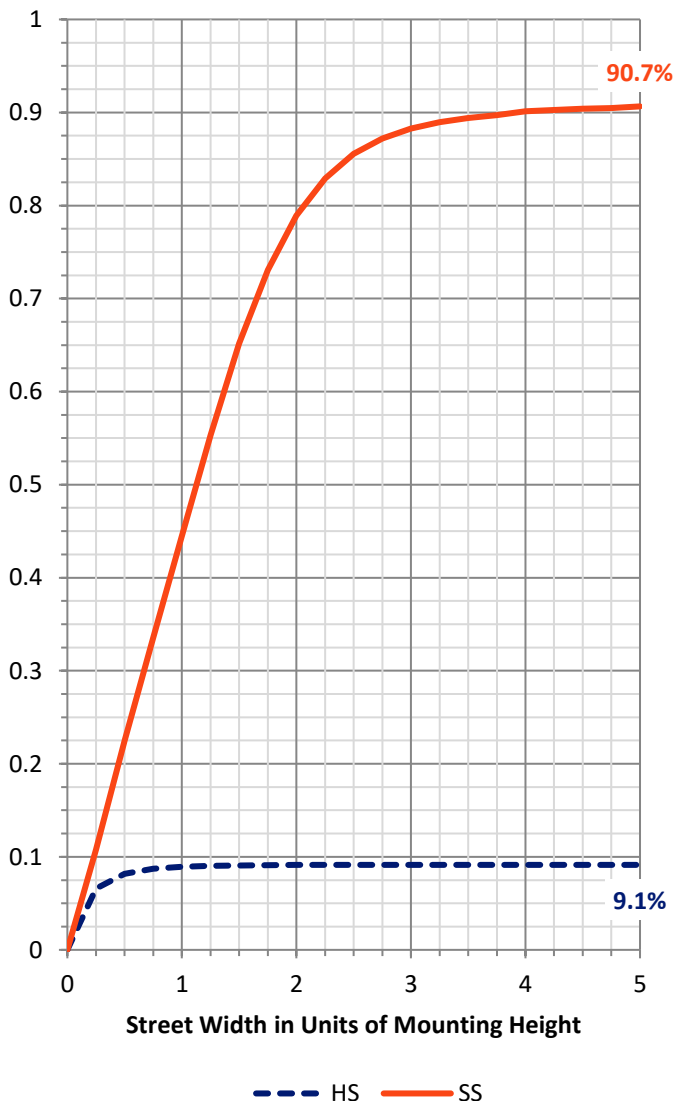
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3020.3	0.0	3020.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	29761.0	0.0	29761.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	32781.3	0.0	32781.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	0.9
10°-20°	913.3	2.8
20°-30°	1548.6	4.7
30°-40°	2574.8	7.9
40°-50°	4495.7	13.7
50°-60°	8783.0	26.8
60°-70°	10190.3	31.1
70°-80°	3710.8	11.3
80°-90°	261.5	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°	32781.3	100.0
0°-180°	32781.3	100.0

Coefficient of Utilization

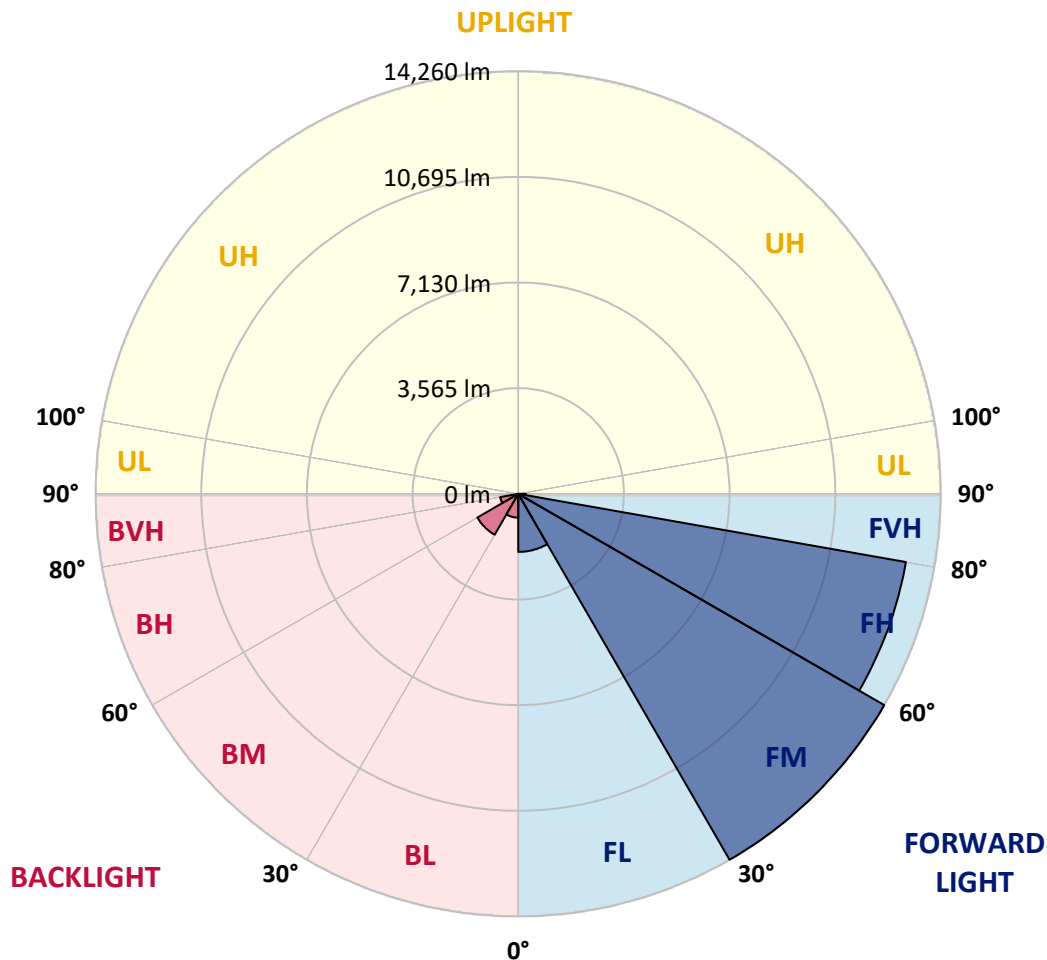


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1960.6	6.0			
FM (30°-60°)	14259.9	43.5			
FH (60°-80°)	13282.6	40.5			G5
FVH (80°-90°)	257.9	0.8			G3/500
BL (0°-30°)	804.7	2.5	B2/1000		
BM (30°-60°)	1593.5	4.9	B2/2500		
BH (60°-80°)	618.5	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°	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0
2.5°	3434.2	3419.2	3411.7	3371.6	3341.5	3304.0	3304.0	3256.4	3201.3	3141.1	3086.0
5°	3817.5	3792.4	3759.9	3724.8	3654.6	3554.5	3554.5	3454.2	3339.0	3236.3	3123.6
7.5°	4185.7	4163.1	4108.0	4040.4	3925.2	3820.0	3812.4	3667.2	3529.4	3374.1	3213.8
10°	4508.9	4491.3	4443.7	4313.4	4193.2	4055.5	4052.9	3890.1	3729.8	3539.4	3341.5
12.5°	4734.2	4736.8	4674.1	4548.9	4393.6	4263.4	4253.4	4093.0	3925.2	3719.7	3476.8
15°	4894.5	4894.5	4829.4	4689.2	4548.9	4433.7	4423.7	4283.4	4110.6	3887.6	3624.6
17.5°	4939.7	4954.7	4884.5	4759.3	4646.6	4546.4	4543.9	4426.2	4288.3	4073.0	3774.9
20°	4922.1	4937.2	4882.0	4784.4	4706.7	4649.0	4641.6	4594.0	4466.2	4263.4	3935.2
22.5°	4884.5	4899.6	4859.5	4801.9	4764.3	4781.8	4769.3	4809.4	4741.8	4496.3	4125.5
25°	4892.1	4907.1	4877.0	4844.5	4877.0	4984.8	5017.3	5190.1	5130.0	4791.8	4331.0
27.5°	5127.5	5157.6	5115.0	5130.0	5245.2	5495.8	5558.3	5856.5	5591.0	5167.6	4651.6
30°	5651.0	5631.0	5550.9	5623.5	6024.3	6555.3	6537.8	6490.2	6074.4	5601.0	5032.4
32.5°	6126.9	6109.4	6104.4	6417.6	7144.0	7402.0	7389.4	6928.6	6507.7	6096.9	5408.1
35°	6319.9	6252.2	6237.2	6996.2	8211.0	7870.4	7792.7	7108.9	7033.8	6638.0	5791.3
37.5°	6901.0	6853.4	6620.4	7091.4	7785.2	7672.5	7612.4	7419.5	7594.8	7116.4	6224.7
40°	8098.3	7965.6	7755.2	7294.2	7181.6	7229.2	7289.3	7817.8	8258.6	7770.2	6803.3
42.5°	9586.2	9556.2	9165.4	8306.2	7462.1	7527.2	7604.8	8649.4	9213.0	8754.6	7747.6
45°	11372.3	11414.8	10851.3	9836.8	8729.6	8784.7	8897.4	9876.8	10505.5	10285.1	9233.1
47.5°	12995.4	12962.8	12772.4	11717.9	10695.9	10573.1	10756.1	11452.4	12294.1	12329.1	11076.6
50°	14628.6	14801.4	14518.4	14105.1	13346.1	13088.1	13020.4	13361.1	14643.7	14475.8	13291.0
52.5°	16975.7	17065.8	16534.8	16429.6	16602.4	15765.8	15698.2	15780.9	16928.1	16352.0	14949.2
55°	18451.0	18398.5	18200.6	19022.2	19706.1	18661.5	18576.3	18243.1	18824.3	17677.1	16544.8
57.5°	18916.9	18992.1	19453.0	20938.5	22556.6	21669.9	21514.5	20567.7	20192.0	18912.0	18012.7
60°	18709.1	18846.8	19841.3	22050.6	24295.0	24162.3	24029.5	22438.9	21173.9	19944.0	19042.3
62.5°	17228.7	17421.6	19012.2	21852.7	24883.7	25712.7	25547.5	23606.1	21827.7	20445.0	19222.6
65°	14438.2	14581.0	16865.5	20056.7	24047.0	26243.8	26183.7	23971.9	21930.3	19986.6	17987.6
67.5°	10292.7	10778.6	12895.2	16903.0	21572.2	25337.1	25439.7	23533.5	20966.0	18005.2	14896.6
70°	6470.1	6800.8	8318.8	12101.1	17293.8	22228.5	22566.6	21527.1	18195.5	14034.9	9972.0
72.5°	3086.0	3331.5	4413.7	7660.0	12206.4	17489.2	17757.2	17672.0	14070.0	8842.3	5145.1
75°	1375.2	1467.9	2106.6	3910.1	7880.4	11755.5	12449.3	12564.5	8792.2	4325.9	2001.4
77.5°	701.4	703.9	986.9	1893.7	3935.2	7013.7	7151.4	7554.8	4766.8	1906.2	696.3
80°	373.2	398.3	523.5	894.2	2041.5	3454.2	3436.7	3777.4	2114.1	934.4	233.0
82.5°	167.9	185.4	295.6	468.4	996.9	1310.0	1412.8	1545.5	906.8	596.2	102.7
85°	50.1	60.1	145.3	235.5	360.7	378.2	423.4	546.1	513.5	423.4	52.6
87.5°	7.5	7.5	60.1	65.1	52.6	67.6	70.1	77.6	165.3	155.3	27.6
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°	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0	3051.0
2.5°	3055.9	3038.4	2975.8	2923.2	2878.2	2850.6	2818.0	2798.0	2787.9	2780.4	2783.0
5°	3068.5	3025.9	2918.2	2833.1	2767.9	2697.8	2650.2	2622.7	2610.1	2590.0	2590.0
7.5°	3138.6	3071.0	2920.7	2790.4	2677.7	2582.5	2492.4	2459.8	2437.3	2432.3	2427.2
10°	3238.9	3153.7	2948.3	2767.9	2607.6	2477.3	2349.6	2236.9	2149.2	2096.6	2089.0
12.5°	3364.1	3241.3	2990.8	2752.8	2547.5	2317.0	1978.9	1751.0	1598.2	1550.6	1558.0
15°	3479.3	3346.5	3033.4	2740.4	2437.3	1921.3	1538.0	1277.5	1199.9	1192.4	1194.8
17.5°	3617.1	3459.3	3083.5	2722.8	2134.2	1467.9	1142.2	1072.1	1087.2	1112.1	1109.7
20°	3759.9	3579.5	3143.7	2617.6	1703.4	1104.7	1009.5	1017.0	1039.6	1062.1	1067.1
22.5°	3912.7	3717.3	3213.8	2364.6	1300.0	961.9	956.9	966.9	989.4	1014.5	1019.5
25°	4123.1	3890.1	3266.4	2034.0	984.4	889.3	899.3	916.8	936.8	964.4	969.4
27.5°	4393.6	4123.1	3293.9	1603.1	851.7	824.1	826.6	851.7	876.7	901.8	901.8
30°	4744.2	4401.1	3238.9	1212.4	786.5	761.5	751.4	766.5	799.0	824.1	826.6
32.5°	5057.4	4664.1	3093.5	926.8	739.0	703.9	678.9	681.3	693.8	708.9	711.4
35°	5370.5	4919.6	2845.5	779.0	688.9	648.7	611.2	591.1	581.1	573.6	581.1
37.5°	5771.3	5237.7	2514.9	708.9	646.2	596.2	543.5	501.0	465.9	443.4	448.3
40°	6287.3	5678.6	2124.1	663.8	606.2	546.1	475.9	420.8	360.7	340.7	330.7
42.5°	7139.0	6347.4	1713.4	626.2	566.1	493.5	405.8	330.7	275.5	255.5	260.5
45°	8484.1	7191.6	1320.1	586.2	526.0	435.9	340.7	260.5	215.4	205.4	210.4
47.5°	10267.6	8283.7	1017.0	541.1	475.9	373.2	268.0	205.4	177.9	175.3	172.8
50°	11945.8	9300.7	849.2	491.0	415.8	310.6	220.4	172.8	155.3	152.8	152.8
52.5°	13463.8	10029.6	691.4	433.4	350.7	255.5	185.4	152.8	137.8	130.3	130.3
55°	14814.0	10505.5	561.1	363.2	275.5	202.9	160.3	137.8	120.3	110.3	107.7
57.5°	15833.4	10563.1	420.8	290.6	205.4	157.8	137.8	120.3	100.2	87.6	82.7
60°	16269.3	10064.7	310.6	220.4	152.8	125.2	110.3	97.7	75.2	62.7	60.1
62.5°	15831.0	9095.2	230.4	167.9	117.7	92.7	77.6	72.7	52.6	37.6	35.1
65°	14260.4	7695.1	182.8	127.7	87.6	67.6	50.1	47.6	32.5	17.5	15.1
67.5°	11424.8	6026.8	145.3	95.2	62.7	45.1	32.5	30.0	17.5	5.0	5.0
70°	7429.6	3852.5	117.7	70.1	40.1	30.0	20.0	15.1	10.0	2.5	0.0
72.5°	3674.7	1801.0	95.2	55.1	27.6	15.1	7.5	5.0	7.5	0.0	0.0
75°	1425.3	641.3	70.1	37.6	15.1	7.5	5.0	0.0	2.5	0.0	0.0
77.5°	473.4	212.9	42.6	20.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0
80°	175.3	82.7	22.5	12.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	70.1	32.5	15.1	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.1	20.0	10.0	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.1	15.1	10.0	7.5	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)