

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: P529804

Luminaire Tested: **GALN-SA5A-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16329 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

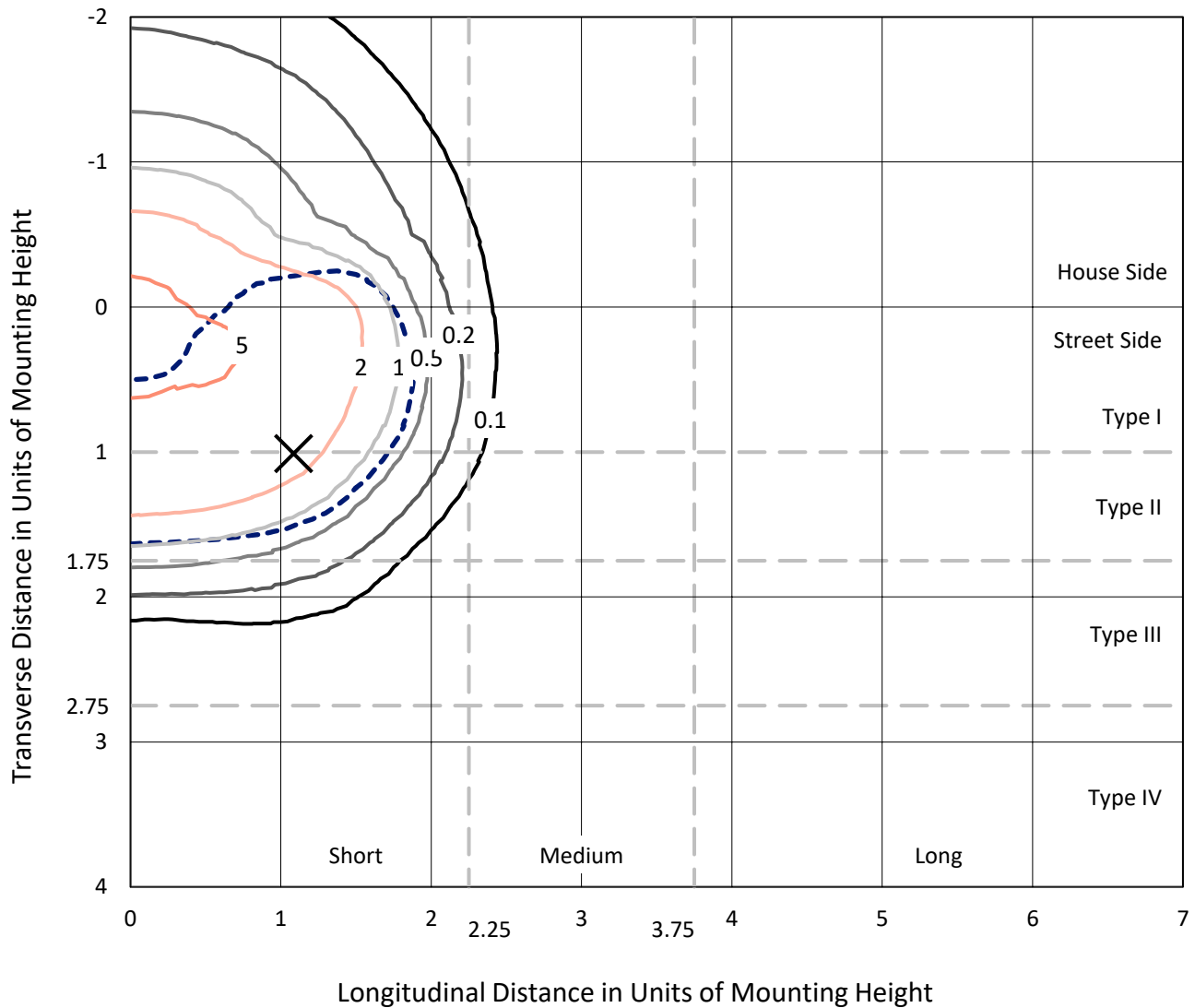
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

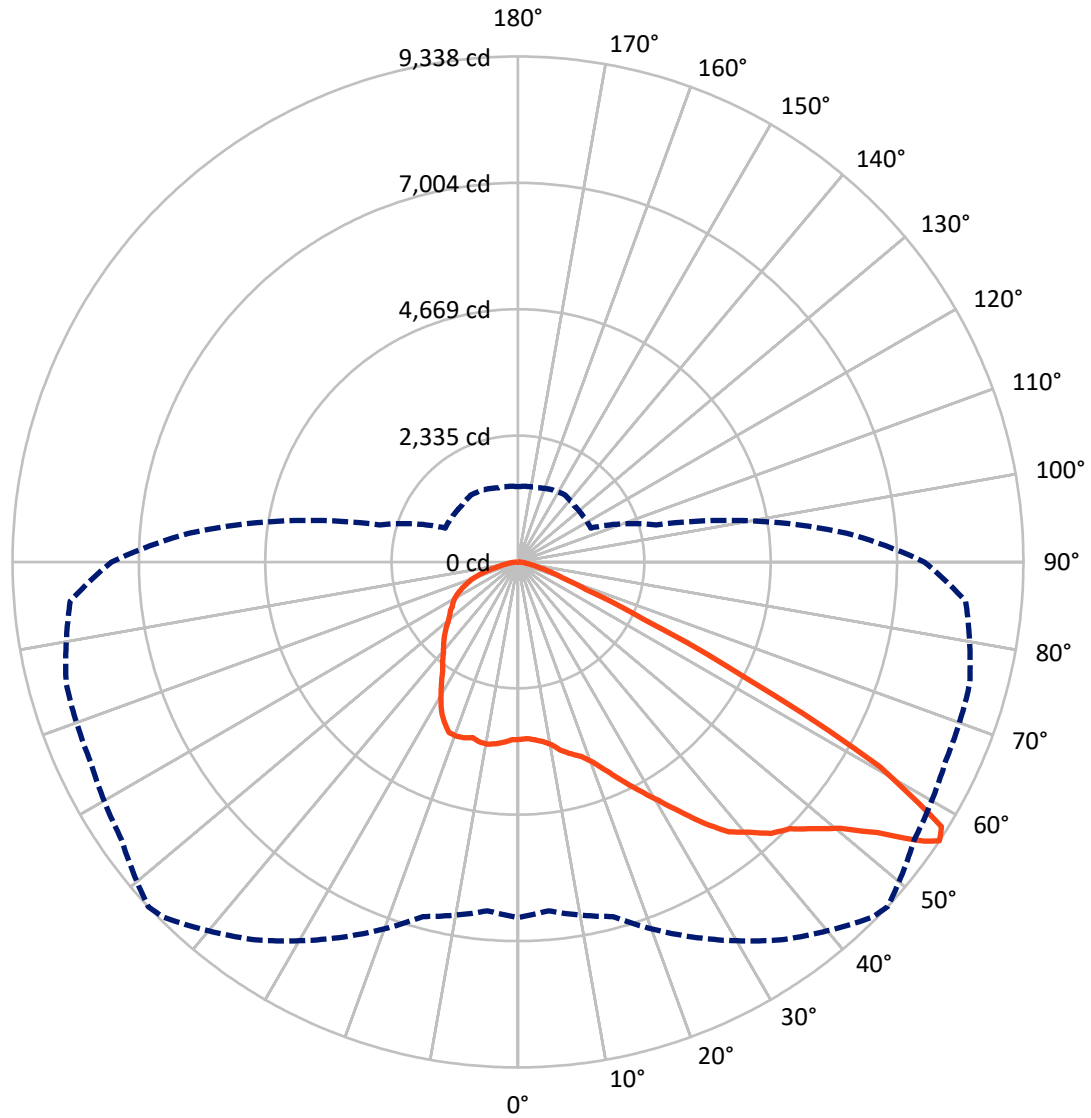
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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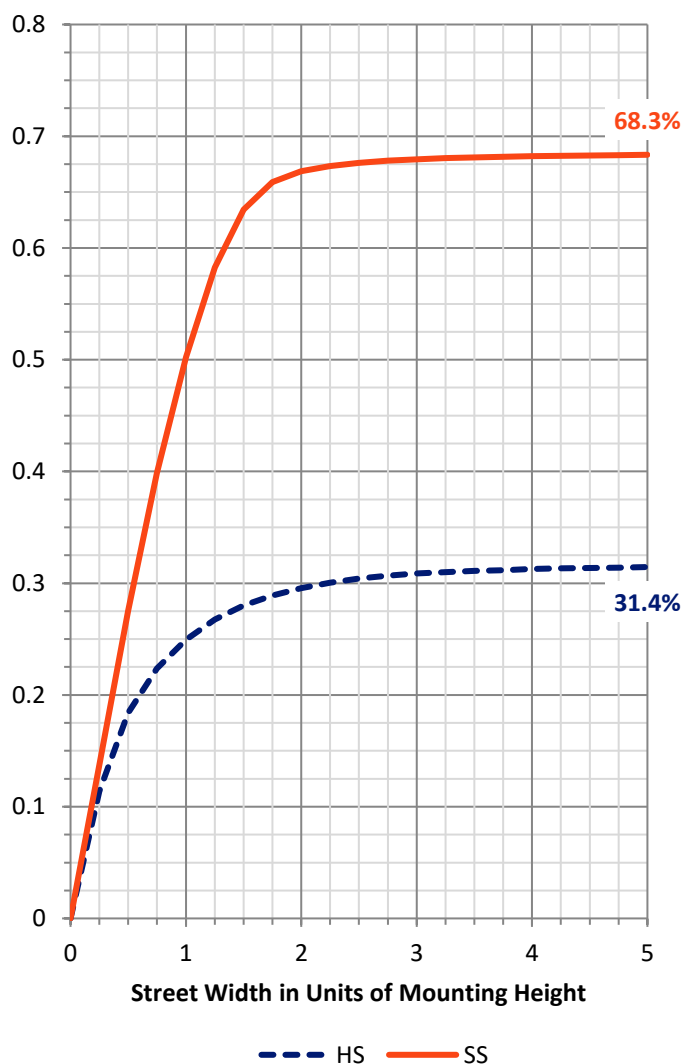
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5174.5	0.0	5174.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	11154.5	0.0	11154.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	16329.0	0.0	16329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	2.0
10°-20°	1008.1	6.2
20°-30°	1782.2	10.9
30°-40°	2676.8	16.4
40°-50°	3673.6	22.5
50°-60°	4376.6	26.8
60°-70°	1872.9	11.5
70°-80°	530.0	3.2
80°-90°	89.2	0.5
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°	16329.0	100.0
0°-180°	16329.0	100.0

Coefficient of Utilization



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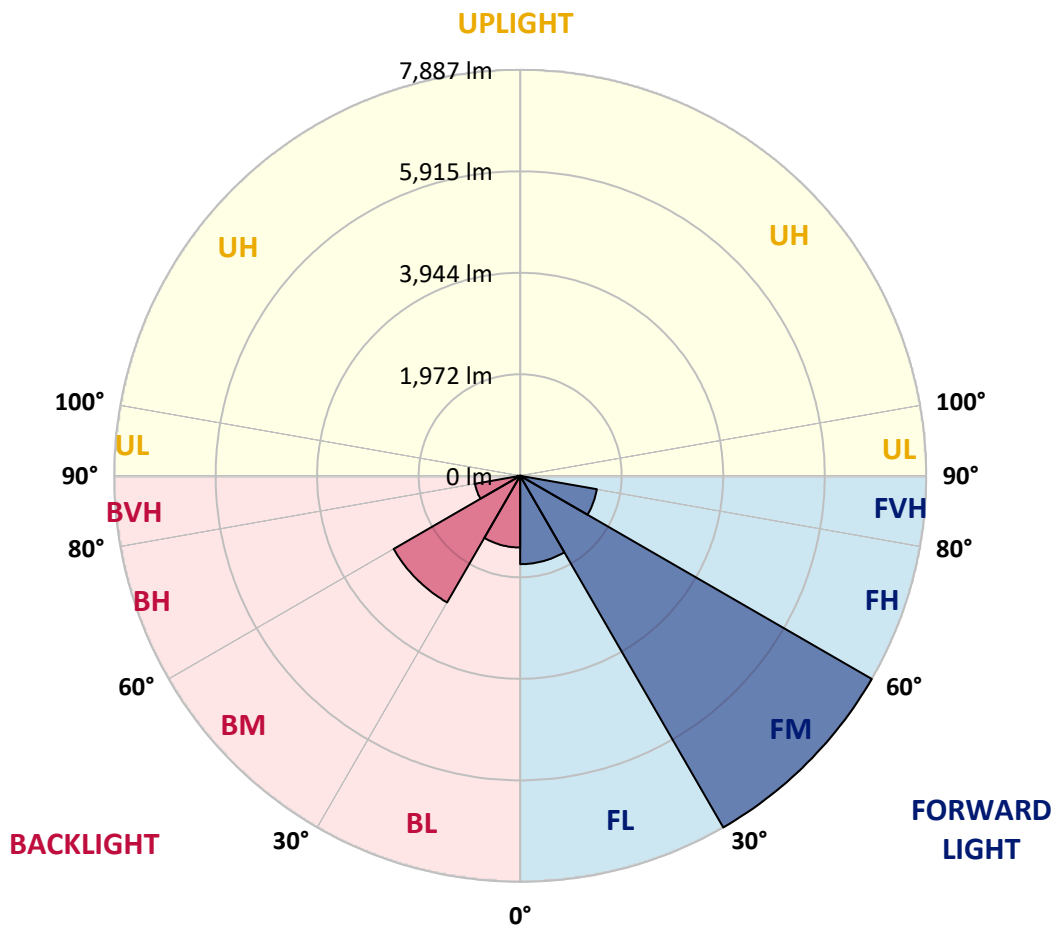
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.7	10.5			
FM (30°-60°)	7887.3	48.3			
FH (60°-80°)	1512.7	9.3			G1/1800
FVH (80°-90°)	37.9	0.2			G1/100
BL (0°-30°)	1393.2	8.5	B3/2500		
BM (30°-60°)	2839.7	17.4	B3/5000		
BH (60°-80°)	890.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	51.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0
2.5°	3267.5	3261.3	3257.1	3290.4	3277.9	3280.0	3267.5	3280.0	3288.3	3269.6	3296.7
5°	3261.3	3280.0	3263.3	3273.8	3300.8	3292.5	3300.8	3325.8	3319.6	3313.3	3305.0
7.5°	3319.6	3321.7	3334.1	3338.3	3346.6	3338.3	3350.8	3373.7	3367.5	3332.1	3336.2
10°	3402.9	3407.0	3409.1	3432.0	3446.6	3448.7	3434.1	3413.3	3411.2	3459.1	3425.8
12.5°	3498.7	3488.3	3513.2	3521.6	3538.2	3557.0	3575.7	3532.0	3559.1	3561.1	3521.6
15°	3638.2	3648.6	3619.5	3619.5	3625.7	3627.8	3679.8	3659.0	3654.9	3631.9	3648.6
17.5°	3846.5	3775.6	3773.6	3744.4	3740.2	3756.9	3775.6	3792.3	3848.5	3802.7	3713.2
20°	3998.5	4015.1	3954.7	3919.3	3925.6	3963.1	3944.3	4019.3	4058.9	3983.9	3896.4
22.5°	4267.1	4210.9	4225.5	4146.3	4152.6	4192.2	4190.1	4267.1	4290.0	4171.3	4044.3
25°	4448.3	4433.7	4446.2	4383.7	4392.1	4423.3	4473.3	4600.3	4562.8	4431.6	4138.0
27.5°	4712.8	4683.6	4673.2	4650.3	4642.0	4725.3	4783.6	4919.0	4891.9	4700.3	4304.6
30°	4983.5	4964.8	4975.2	4881.5	4914.8	5091.8	5108.5	5293.8	5281.3	4943.9	4490.0
32.5°	5170.9	5181.4	5200.1	5148.0	5295.9	5437.5	5493.7	5704.1	5714.5	5362.5	4848.2
35°	5472.9	5437.5	5447.9	5508.3	5577.0	5835.3	5926.9	6066.4	6153.9	5802.0	5191.8
37.5°	5662.4	5699.9	5656.2	5752.0	5931.1	6241.4	6324.7	6468.4	6560.0	6235.1	5660.3
40°	5958.1	5897.8	5929.0	5997.7	6181.0	6585.0	6562.1	6709.9	6739.1	6603.7	6097.7
42.5°	6276.8	6247.6	6203.9	6360.1	6514.2	6807.8	6853.6	6784.9	6932.8	6964.0	6722.4
45°	6657.9	6693.3	6699.5	6703.7	6839.1	7095.2	7032.7	6972.3	7143.1	7370.1	7109.8
47.5°	7011.9	6899.5	6980.7	7093.1	7284.7	7286.8	7359.7	7216.0	7397.2	7599.2	7459.7
50°	7130.6	7076.5	7184.8	7397.2	7692.9	7724.1	7732.5	7528.4	7622.1	7782.5	7580.4
52.5°	7084.8	7066.1	7343.0	7672.1	8105.2	8263.5	8305.2	8053.2	8105.2	8032.4	7847.0
55°	6866.1	6922.4	7201.4	7872.0	8536.3	9025.7	9104.9	8786.2	8455.1	8511.3	8307.3
56°	6566.2	6468.4	6780.7	7645.0	8517.6	9273.5	9338.1	8940.3	8715.4	8642.5	8303.1
57.5°	5570.8	5443.8	5854.0	6878.6	8044.9	9179.8	9227.7	9004.9	8671.7	8523.8	7697.1
60°	3261.3	3323.7	3844.4	4744.0	6206.0	7526.3	7686.7	7849.1	7626.3	6964.0	5729.1
62.5°	1574.4	1534.8	1907.6	2719.8	3781.9	4804.4	4756.5	5212.6	5462.5	4948.1	3617.4
65°	824.7	820.5	1041.3	1484.9	2078.4	2524.0	2567.8	2813.5	3157.1	2549.0	1836.8
67.5°	606.0	622.7	733.1	1043.4	1337.0	1364.1	1357.8	1480.7	1514.0	1280.8	1128.7
70°	474.8	483.1	564.4	793.4	995.5	891.3	872.6	887.2	985.0	1026.7	976.7
72.5°	343.6	351.9	420.7	535.2	622.7	608.1	620.6	701.8	822.6	866.3	814.3
75°	229.1	235.3	272.8	327.0	368.6	397.8	420.7	514.4	626.8	651.8	626.8
77.5°	158.3	164.5	189.5	231.2	235.3	254.1	262.4	306.1	374.9	406.1	389.4
80°	89.5	89.5	102.0	118.7	145.8	170.8	174.9	210.3	241.6	262.4	266.6
82.5°	41.7	43.7	54.1	72.9	95.8	118.7	122.9	145.8	168.7	189.5	195.8
85°	20.8	22.9	31.2	43.7	58.3	70.8	68.7	70.8	75.0	70.8	72.9
87.5°	6.2	6.2	8.3	10.4	8.3	10.4	10.4	12.5	14.6	16.7	18.7
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°	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0
2.5°	3298.7	3305.0	3263.3	3302.9	3288.3	3286.2	3315.4	3311.2	3321.7	3317.5	3292.5
5°	3300.8	3286.2	3330.0	3290.4	3309.2	3348.7	3321.7	3384.1	3352.9	3373.7	3327.9
7.5°	3365.4	3369.5	3361.2	3377.9	3369.5	3388.3	3373.7	3388.3	3363.3	3365.4	3407.0
10°	3421.6	3409.1	3423.7	3402.9	3417.4	3411.2	3377.9	3367.5	3375.8	3365.4	3392.5
12.5°	3525.7	3502.8	3492.4	3467.4	3450.8	3388.3	3336.2	3307.1	3346.6	3352.9	3340.4
15°	3631.9	3634.0	3586.1	3529.9	3425.8	3332.1	3344.6	3355.0	3355.0	3371.6	3340.4
17.5°	3698.6	3698.6	3654.9	3542.4	3436.2	3382.0	3369.5	3336.2	3307.1	3302.9	3300.8
20°	3815.2	3779.8	3679.8	3540.3	3432.0	3407.0	3313.3	3234.2	3173.8	3153.0	3150.9
22.5°	3948.5	3858.9	3719.4	3544.5	3425.8	3390.4	3215.4	3096.7	2988.4	2942.6	2948.9
25°	4071.4	3927.7	3742.3	3525.7	3402.9	3232.1	3036.3	2871.8	2759.4	2721.9	2703.1
27.5°	4156.7	4000.6	3742.3	3542.4	3317.5	3055.1	2855.2	2644.8	2546.9	2522.0	2526.1
30°	4271.3	4092.2	3806.9	3507.0	3146.7	2826.0	2586.5	2449.1	2390.8	2369.9	2384.5
32.5°	4539.9	4331.7	3896.4	3421.6	2944.7	2596.9	2403.3	2326.2	2240.8	2199.2	2184.6
35°	4831.5	4558.7	3983.9	3277.9	2717.7	2388.7	2267.9	2197.1	2095.0	2049.2	2057.5
37.5°	5243.8	4850.2	3990.1	3040.5	2472.0	2272.1	2161.7	2051.3	1968.0	1897.2	1876.4
40°	5799.9	5248.0	3975.6	2790.6	2274.1	2134.6	2053.4	1915.9	1822.2	1772.2	1782.7
42.5°	6289.3	5714.5	3915.2	2507.4	2095.0	2040.9	1949.3	1813.9	1722.3	1670.2	1666.0
45°	6701.6	6058.1	3800.6	2265.8	1945.1	1936.8	1830.6	1726.4	1653.5	1605.6	1626.5
47.5°	7082.7	6335.1	3627.8	2024.2	1807.6	1824.3	1722.3	1657.7	1611.9	1568.2	1566.1
50°	7220.2	6330.9	3475.8	1824.3	1697.3	1688.9	1684.8	1616.1	1568.2	1530.7	1547.3
52.5°	7449.2	6401.7	3311.2	1686.9	1597.3	1599.4	1614.0	1564.0	1509.8	1486.9	1507.8
55°	7778.3	6412.1	2948.9	1526.5	1514.0	1528.6	1528.6	1495.3	1449.4	1430.7	1420.3
56°	7509.6	6101.8	2644.8	1484.9	1472.4	1472.4	1511.9	1474.4	1418.2	1403.6	1391.1
57.5°	6926.5	5345.9	2213.7	1434.9	1416.1	1445.3	1466.1	1426.5	1374.5	1353.7	1366.1
60°	4777.3	3617.4	1663.9	1326.6	1326.6	1374.5	1391.1	1332.8	1309.9	1307.8	1291.2
62.5°	2788.5	2107.5	1301.6	1228.7	1232.9	1272.4	1284.9	1251.6	1222.5	1257.9	1274.5
65°	1478.6	1257.9	1116.2	1124.6	1126.7	1157.9	1212.0	1210.0	1207.9	1218.3	1220.4
67.5°	1070.4	1045.4	1014.2	1005.9	1010.0	1032.9	1087.1	1128.7	1126.7	1101.7	1082.9
70°	953.8	918.4	899.7	901.7	885.1	912.2	955.9	983.0	935.1	905.9	893.4
72.5°	793.4	783.0	770.5	772.6	739.3	733.1	683.1	683.1	670.6	662.2	676.8
75°	606.0	601.9	608.1	597.7	562.3	524.8	495.6	468.6	426.9	410.3	401.9
77.5°	383.2	395.7	410.3	387.4	372.8	345.7	316.5	289.5	256.2	237.4	237.4
80°	260.3	270.7	281.1	277.0	260.3	235.3	212.4	183.3	160.4	145.8	143.7
82.5°	197.8	206.2	220.7	204.1	187.4	166.6	147.9	127.0	106.2	89.5	89.5
85°	70.8	81.2	89.5	97.9	104.1	106.2	91.6	75.0	60.4	47.9	45.8
87.5°	18.7	20.8	22.9	20.8	20.8	20.8	22.9	20.8	18.7	14.6	14.6
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)